

INVITED TESTIMONY BEFORE THE U.S. HOUSE OF REPRESENTATIVES' COMMITTEE
ON SCIENCE, SPACE, AND TECHNOLOGY HEARING "STRENGTHENING
TRANSPARENCY OR SILENCING SCIENCE? THE FUTURE OF SCIENCE IN EPA
RULEMAKING"

Statement of

David B. Allison, Ph.D.

Dean, Distinguished Professor, & Provost Professor

Indiana University School of Public Health-Bloomington

and

Member, Committee on Reproducibility and Replicability in Science

The National Academies of Sciences, Engineering, and Medicine

before the

U.S. House Of Representatives' Committee on Science, Space, and Technology

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My name is David B. Allison. I currently serve as the dean of the School of Public Health at Indiana University – Bloomington, although on this occasion I am speaking as a member of the Committee on Reproducibility and Replicability in Science and on behalf of the National Academies of Sciences, Engineering, and Medicine (the National Academies) and not Indiana University. I have been asked by The U.S. House of Representatives' Committee on Science, Space, and Technology to testify at their hearing titled, "*Strengthening Transparency or Silencing Science? The Future of Science in EPA Rulemaking*" on November 13, 2019. I understand from the invitation that "The purpose of the hearing is to assess the EPA's proposed rule *Strengthening Transparency in Regulatory Science*."

In my testimony, I have been asked to address the following topics:

- The definition of reproducibility, as determined by the Committee on Reproducibility and Replicability in Science of the National Academies;
- The potential consequences of EPA's goal to establish a reproducibility standard within its regulatory process by requiring that the underlying data of scientific studies be made available;
- Whether it is appropriate to determine the rigor or regulatory applicability of a study based solely on its reproducibility; and
- Whether a reproducibility requirement could increase the risk that sound science could be excluded from EPA environmental and public health regulations.

These topics will be addressed in addition to several other points. In this testimony, I will provide:

1. A brief background on the Committee on Reproducibility and Replicability in Science and my involvement in it.
2. Some overview remarks about science found in the "Reproducibility and Replicability in Science" report as well as my own personal perspectives that serve as context for this discussion.
3. Responses to the topics posed by the House Science committee.
4. A copy of the Executive Summary of the "Reproducibility and Replicability in Science" report.

My testimony ends with a summary of its main points which are my own personal perspectives.

- 1. A brief background on the Committee on Reproducibility and Replicability in Science and my involvement in it.**

The American Innovation and Competitiveness Act of 2017 directed the National Science Foundation to engage the National Academies in a study to assess reproducibility and replicability in scientific and engineering research and to provide findings and recommendations for improving rigor and transparency in scientific research. The National Academies appointed a committee of experts to carry out this evaluation, representing a wide range of expertise and backgrounds: methodology and statistics, history and philosophy of science, science communication, behavioral and social sciences (including experts in the social and behavioral factors that influence the reproducibility and replicability of research results), earth and life sciences, physical sciences, computational science, engineering, academic leadership, journal editors, and industry expertise in quality control. In addition, individuals with expertise pertaining to reproducibility and replicability of research results across a variety of fields were selected. Dr. Harvey Fineberg, President of the Gordon and Betty Moore Foundation and a past president of the Institute of Medicine—now the National Academy of Medicine—served as the

chair of the Committee. The Committee's report is available for download without charge at: <https://www.nap.edu/catalog/25303/reproducibility-and-replicability-in-science>.

I was asked to serve as a committee member based on my work as a scientist and my long-term interest in issues related to reproducibility, replicability, and rigor in science such as my involvement in organizing and participation in the 2017 National Academy of Sciences Colloquium which was focused on these issues. My research interests include obesity and nutrition, quantitative genetics, clinical trials, statistical and research methodology, and research rigor and integrity. I have authored more than 600 scientific publications and edited five books. A member of the National Academy of Medicine of the National Academies, I am also an elected fellow of the American Association for the Advancement of Science, the American Statistical Association, the American Psychological Association, the New York Academy of Medicine, the Gerontological Society of America, the Academy of Behavioral Medicine Research, and other academic societies. I have devoted my career to the rigorous pursuit of knowledge through science. It is an honor to represent the Committee on Reproducibility and Replicability in Science and to discuss the content of its report and my perspectives on these topics with the U.S. House Committee on Science.

2. **Science as a shared communal process for objectively determining the truth of propositions about the world.**

Science is a method by which society tries to discover and share knowledge about the state of the world. It is fundamentally a communal process in which communicating the research process and findings, helping others to understand the knowledge obtained, and subjecting conclusions and the bases for them to public questioning and scrutiny are all essential components. What makes science special both in its claims to have access to objective knowledge about the world as well as in its communal process involves the methods by which scientific knowledge is generated. In particular, "in science, three things matter: the data, the methods used to collect the data (which give them their probative value), and the logic connecting the data and methods to conclusions."¹ These are the substrates of science.

Because of the critical role of methods in this process, it is an essential tenet of science that the methods used to collect or produce data and to analyze them be as thoroughly and transparently described as possible so that others may understand what was done and thereby judge the probative value of the data. Thus, transparency is critical to one of the three fundamental elements of science as I have described. As the Committee states in its report (p. 32), "*When research is communicated with clear, specific, and complete accounting of the materials and methods used, the results found, and the uncertainty associated with the results, other scientists can know how to interpret the results. The communal enterprise of science allows scientists to build on others' work, develop the necessary skills to conduct high quality studies, and check results and confirm, dispute, or refine them.*" In short, observability of

¹ <https://www.pnas.org/content/115/11/2563>

methods and observability of data, which might both be considered under the rubric of “transparency”, support the objectivity and communal validation process of science.

That is, as scientists or individuals consuming and judging the validity, value, and utility of science, we need to know more than one’s answer, we need to know how one got that answer. The phrase so many of us heard from our middle school math teachers “show your work” is an apt description. Only by seeing the process of the work done to produce an answer in science can we judge that answer. This observability requires transparency. This observability and transparency in turn makes reproducibility possible.

Reproducibility is a word that is used in multiple different ways in the scientific and general communities. Most recently, as I will state in Section 4, the term reproducibility was defined in the Reproducibility and Replicability in Science report as follows (p. 46) “*reproducibility is obtaining consistent results using the same input data, computational steps, methods, and code, and conditions of analysis. This definition is synonymous with ‘computational reproducibility’.*” Notably, reproducibility is neither a necessary nor sufficient condition for a particular scientific project to be judged as valid for supporting any conclusions drawn from it. It is a valuable aspect of science, but only one aspect of science that is valuable, and it is not clear that reproducibility should merit a privileged position as the sole arbiter of whether a particular study or data set should be admitted into a discussion of evidence.

It is worth noting that the Committee on Reproducibility and Replicability in Science did not consider the EPA proposed rule in its tasking and, since the proposed rule was released during Committee deliberations, the Committee’s report was not publicly available while EPA’s proposed rule was underdevelopment.

The proposed EPA rule does not necessarily state that reproducibility *per se* or even that transparency will be the sole arbiter of the admission of evidence into the policy making process, but it might be construed as implying this. Part of the challenge with the proposed rule is the substantial number of terms including *reproducibility, transparency, independent validation*, and others which are not all explicitly defined. This leads to ambiguity in how the rule may be interpreted and utilized. Rulemaking is arguably not served by ambiguity nor is science itself. Though some ambiguity is inherent in all language, we should strive to be precise in terms. Therefore, if some variant of the proposed EPA rule were to go forward, the public interest would likely be served by defining all terms as precisely as possible, by including factors other than reproducibility (at least as the Committee’s report has defined it) as key factors in determining how to evaluate evidence, as well as potentially making other modifications.

From my perspective, it is important to consider what the ultimate goals of science and policy making are in considering what those other modifications might be. The ultimate goal of science is to uncover and communicate truths about the state of the world. The ultimate goal of policy making is to serve the interests of the public. Science is a valuable input to policy making decisions but can never be fully dispositive of policy-making decisions which also must take into account moral, social, economic, political, and other factors. But the evaluation of the science *per se* should be based only on the science and not on these other factors.

Science can inform us about the plausible truth of propositions. These propositions can relate to things such as how much of a substance is in the environment, whether the amount of a substance in the environment has increased or decreased, what may have caused exposure to various substances, what the effects of exposure to various substances at various times in various doses are in humans, etc. Reproducibility is of interest because it potentially helps us to evaluate the extent to which a study supports the truth of some proposition and, in the long run, buttresses the entire enterprise of science and thereby ensures that we are better able to pursue truth through science. As the Committee report states (p. 33): “*Science is engaged in a continuous process of refinement to uncover ever closer approximations to the truth.*” In the report, Conclusion 2-1 states (p.33):

“CONCLUSION 2-1: The scientific enterprise depends on the ability of the scientific community to scrutinize scientific claims and to gain confidence over time in results and inferences that have stood up to repeated testing. Reporting of uncertainties in scientific results is a central tenet of the scientific process. It is incumbent on scientists to convey the appropriate degree of uncertainty in reporting their claims.”

The degree of certainty about the truth of any proposition in science comes from many sources including but not limited to reproducibility. The overall rigor of the science such as the quality of the measurement instruments used, the extent to which the findings have been replicated (as opposed to simply reproduced), the degree of transparency and reporting of the science, the extent to which it has been thoroughly peer reviewed, the extent to which results fit with a larger body of data available to the scientific community, are all factors that can come into play in judging the extent to which we have a scientific basis for believing that any particular proposition is true. Collectively, all of these things might be called “rigor.” My colleagues and I on the Committee wrote (p.52):

“Rigor is defined as ‘the strict application of the scientific method to ensure robust and unbiased experimental design’ (National Institutes of Health, 2018e). Rigor does not guarantee that a study will be replicated, but conducting a study with rigor—with a well-thought-out plan and strict adherence to methodological best practices—makes it more likely. One of the assumptions of the scientific process is that rigorously conducted studies ‘and accurate reporting of the results will enable the soundest decisions’ and that a series of rigorous studies aimed at the same research question ‘will offer successively ever-better approximations to the truth’ (Wood et al., 2019, p. 311).”²

From my personal perspective, it may not be apt for a governmental rule to define the admissibility of evidence into a discussion on consideration of a policy that can and should be informed by science solely on the basis of reproducibility. I have stated that one reason for this

² See National Institutes of Health. (2018e). Rigor and Reproducibility in NIH Applications: Resource Chart. Available: <https://grants.nih.gov/grants/RigorandReproducibilityChart508.pdf> and Wood, A.C., Wren, J.D., and Allison, D.B. (2019). The Need for Greater Rigor in Childhood Nutrition and Obesity Research. *JAMA Pediatrics*, 173(4), 311-312. doi:10.1001/jamapediatrics.2019.0015.

is that reproducibility is neither a necessary nor a sufficient condition for a scientific study or data set to be valid or useful. This is so for many reasons.

First, a study can be reproducible and transparent and yet completely invalid. If a second analyst repeats the entire process of the first analyst applied to the same data, including the first analyst's mistakes or to a data set that is fundamentally flawed and inappropriate, an answer may be reproduced, the process may be transparent, and yet the answer may be worthless and invalid.

Additionally, a scientific project may not be reproducible because the available information is insufficient to allow someone to reproduce it. The original raw data may not be available or for many reasons may not be able to be made public. The original investigators may not have sufficiently documented their steps to allow a full evaluation of exactly what was done permitting an exact reproduction. These are certainly limitations and should be noted. And yet, limitations are not necessarily the same as invalidating factors that should exclude information from further inquiry. A general tenet of scientific evaluation is that one should consider all of the available evidence. One may weigh the individual elements of evidence differentially, but it is uncommon to exclude particular evidence from consideration because it contains some limitations. Virtually all empirical evidence is imperfect and has some limitations. It is vital that in the scientific process those limitations are noted and some of those limitations may preclude firm conclusion-making. Yet the evidence should still be weighed and considered.

In considering the rationale for this approach, the fundamental distinction between the idea of conclusion-making and decision-making is called for. Scientific conclusion-making may depend on certain key types of data. Scientific conclusion-making may depend upon scientific evidence which supports a sufficient degree of certainty that rules out alternative explanations that would compete with a proposition being accepted as true to some reasonable degree of certainty. For example, in biomedical research, and many other domains, scientists will often not be prepared to state unequivocally that it has been demonstrated by scientific methods that '*x causes y*' unless there has been a randomized controlled experiment in which experimental units (e.g., people in medical trial) have been randomly assigned to different levels of *x* (e.g., to take a drug vs. a placebo or to eat diet A vs. diet B). Yet, in medicine, nutrition, public health, and other applied domains we are often called upon to make recommendations to individual patients, citizens, or society at large and often must do so in the absence of data that would be sufficient to allow us to draw a firm scientific conclusion that *x causes y*. We may have to make our recommendation simply by saying that *it seems likely that x causes y* even though it has not been *demonstrated that x causes y*. When we make a recommendation that somebody should *act as though x causes y* even though we have not demonstrated scientifically that *x causes y*, we are involved in decision-making not conclusion-making. The scientific conclusion can remain unclear while we still proceed with a recommendation. In all cases that recommendation should be made with honesty, letting those to whom we communicate it know that we have not yet demonstrated that *x causes y* only that it seems a reasonable and plausible proposition given the available information.

This distinction was put eloquently by Sir Austin Bradford Hill in 1965 who considered issues such as whether smoking caused lung cancer. He recognized that there were not randomized

controlled trials demonstrating unequivocally that smoking causes lung cancer but that the evidence for an association between smoking and lung cancer was extremely strong and, combined with much other information in the scientific domain, has led virtually all scientists to accept the proposition that smoking causes lung cancer as true beyond any reasonable doubt.³ In discussing the thought process involved in this, Sir Austin Bradford Hill stated *“in passing from association to causation I believe in ‘real life’, we shall have to consider what flows from that decision. On scientific grounds, we should do no such thing. The evidence is there to be judged on its merits and the judgment (in that sense) should be utterly independent of what hangs upon it – or who hangs because of it.”*⁴

Similarly, in a recent New York Times’ article considering the controversy around the health effects of red meat,⁵ I was quoted as describing the distinction between evidence for conclusion-making versus evidence for decision-making, stating *“The standards of evidence for the former are scientific matters and should not depend on extra scientific considerations. The standards of evidence for the latter are matters of personal judgment or in some cases legislation. People should be aware of the uncertainty and make their decisions based on that awareness.”*

This recognition of the difference between decision-making for applied purposes, the fundamental aspect of policy making, and conclusion-making for scientific purposes underlies the very credible approaches taken by multiple other government organizations with respect to their consideration of evidence around key questions. For example, in their discussion of what constitutes adequate evidence for making their decisions about such things as drug approvals, the U.S. Food and Drug Administration has stated (p. 5):⁶

“The need for independent substantiation has often been referred to as the need for replication of the finding. Replication may not be the best term, however, as it may imply that precise repetition of the same experiment in other patients by other investigators is the only means to substantiate a conclusion. Precise replication of a trial is only one of a number of possible means of obtaining independent substantiation of a clinical finding and, at times, can be less than optimal as it could leave the conclusions vulnerable to any systematic biases inherent to the particular study design. Results that are obtained from studies that are of different design and independent in execution, perhaps evaluating different populations, endpoints, or dosage forms, may provide support for a conclusion of effectiveness that is as convincing as, or more convincing than, a repetition of the same study.”

. . . (p.17) *“However, situations often arise in which studies that evaluate the efficacy of a drug product lack the full documentation described above (for example, full patient records may not be available) or in which the study was conducted with less monitoring than is ordinarily seen in commercially*

³ <https://www.americanscientist.org/article/reasonable-versus-unreasonable-doubt>

⁴ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1898525/>

⁵ <https://www.nytimes.com/2019/09/30/health/red-meat-questions-answers.html>

⁶ <https://www.fda.gov/media/71655/download>

sponsored trials. Such situations are more common for supplemental indications because postapproval studies are more likely to be conducted by parties other than the drug sponsor and those parties may employ less extensive monitoring and data-gathering procedures than a sponsor. Under certain circumstances, it is possible for sponsors to rely on such studies to support effectiveness claims, despite less than usual documentation or monitoring.”

Similarly, the “Reference Manual on Scientific Evidence” produced by the National Research Council of the National Academies and the Federal Judicial Center states (p.330):⁷

“A party that offers data to be used in statistical work, including multiple regression analysis, should be encouraged to provide the following to the other parties: (a) a hard copy of the data when available and manageable in size, along with the underlying sources; (b) computer disks or tapes on which the data are recorded; (c) complete documentation of the disks or tapes; (d) computer programs that were used to generate the data (in hard copy if necessary, but preferably on a computer disk or tape, or both); and (e) documentation of such computer programs. The documentation should be sufficiently complete and clear so that the opposing expert can reproduce all of the statistical work.”

Yet, also states (Preface, p. xiv):

“In the final analysis, a judge does not have the option of suspending judgment until more information is available, but must decide after considering the best available science.”

In the academic community, we have a system called GRADE.

“GRADE (Grading of Recommendations, Assessment, Development and Evaluations) is a transparent framework for developing and presenting summaries of evidence and provides a systematic approach for making clinical practice recommendations.[1-3] It is the most widely adopted tool for grading the quality of evidence and for making recommendations with over 100 organisations worldwide officially endorsing GRADE.”⁸

In using systems like GRADE, while limitations of individual studies are noted, “...*the credibility and trustworthiness of **the totality of evidence*** [emphasis added] *across studies in relation to a specific research question*”⁹ is key. This reliance on the totality of evidence via GRADE is also a hallmark of the process for generating dietary recommendations used by Federal Agencies.¹⁰ Thus, GRADE is used to help evaluate evidence that can potentially support decisions about public health recommendations. Importantly, GRADE defines principles for standards of evidence and helps evaluate individual pieces of evidence so that they may be properly weighed in an analysis. In contrast, GRADE does not specifically state that certain types of evidence will

⁷ <https://www.fjc.gov/sites/default/files/2015/SciMan3D01.pdf>

⁸ <https://bestpractice.bmj.com/info/toolkit/learn-ebm/what-is-grade/>

⁹ <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6001464/>

¹⁰ <https://www.ncbi.nlm.nih.gov/books/NBK465019/>

simply be excluded from discussion, but rather outlines which types of evidence should be given greater value and lead to more confident conclusions versus less confident conclusions.

All of this leads one to ask whether the public interest would be well-served by modifying the current proposed EPA rule to increase clarity around definitions and procedures for its implementation. Or would the public interest be better-served by a more thorough and expansive statement of principles as to what constitutes good scientific evidence, about ideals of scientific evidence which include, but are not limited to, reproducibility and transparency, and suggestions for how to weigh and evaluate evidence both for drawing scientific conclusions and for making prudent decisions. A statement of such broad principles may serve the interests of the public and of science by promoting openness in science, good quality science, rational policy making, and transparency in both science and government, more so than does a rule which serves to exclude certain information from consideration.

3. Executive Summary of the "Reproducibility and Replicability in Science" of the National Academies.

The executive summary of the "Reproducibility and Replicability in Science" report of the National Academies appears as Appendix A to this document.

4. Responses to Specific Questions.

a) The definition of reproducibility, as determined by the Committee on Reproducibility and Replicability in Science of the National Academies.

The term reproducibility is defined in Conclusion 3-1 in the Committee's report, "Reproducibility and Replicability in Science" (p. 46):

Reproducibility is obtaining consistent results using the same input data, computational steps, methods, and code, and conditions of analysis. This definition is synonymous with "computational reproducibility". . .

The Committee's definition of replicability is also important. The same section of the report defines:

"Replicability to mean obtaining consistent results across studies aimed at answering the same scientific question, each of which has obtained its own data."

b) The potential consequences of EPA's goal to establish a reproducibility standard within its regulatory process by requiring that the underlying data of scientific studies be made available.

In my opinion, the answer to this depends upon exactly how the rule is implemented and modified. If reproducibility were to become the sole arbiter of whether information, a study, or a data set were included in policy making considerations, I believe the effects would be deleterious for the reasons I have stated above. Some high-quality information that, for any number of reasons, cannot be made fully reproducible and transparent would be excluded. Moreover, the rule might lead to the mistaken conclusion that information that was judged to

be admissible because it met a transparency or reproducibility standard was valid information, and as I have indicated above there can be much that is reproducible and transparent but is nonetheless invalid or otherwise flawed.

The likely quality of the outcomes as a result of the proposed rule would also depend upon the extent to which the request that underlying data be transparent and the studies be reproducible be implemented flexibly and in an unbiased manner or inflexibly or in a biased manner. Were a rule to be implemented that provided strong encouragement and incentives for making science reproducible and transparent, that would be good. In contrast, if such a rule became *dicto simpliciter* and a sole arbiter of whether information could be included, that would be bad. Certainly, the current EPA rule contains many situations in which exceptions can be made. That is wise. Yet what is unclear to me is whether the rule is necessary at all and, if it is valuable, how these exceptions will be adjudicated and whether the process of making them will lead to excessive use of time, excessive exclusion of studies, and potential bias in terms of which studies and datasets ultimately are allowed to be included.

c) Whether it is appropriate to determine the rigor or regulatory applicability of a study based solely on its reproducibility.

No, from my perspective, it would not be appropriate to determine the rigor or the regulatory applicability of a study based solely on its reproducibility as reproducibility is defined in the National Academies' report for the reasons I have stated above. In short, reproducibility is neither a necessary nor a sufficient condition to determine the validity of a study for in turn determining the truth of a proposition.

d) Whether a reproducibility requirement could increase the risk that sound science could be excluded from EPA environmental and public health regulations.

It is not clear to me that the currently proposed rule definitively proposes a reproducibility requirement as the sole arbiter or a *sine qua non* for which studies and datasets can enter into policy making because the proposed rule only addresses certain aspects of policy making and it allows for exceptions. Yet, for the reasons I have described above, I do think there is some danger that if reproducibility is poorly defined and more importantly if it becomes the sole and essential criterion for inclusions of data, then yes, such a requirement could risk that sound science would be excluded from EPA environmental and public health regulations.

5. Summation.

In summation, the National Academies Committee and I as both a member and an individual scientist are a strong proponents of reproducibility and replicability, of transparency in science, and more importantly and more broadly of the utmost rigor in the execution of science and in the unvarnished truthful communication of scientific information among scientists and to society at large. I personally believe that any effort that serves to promote the goals of reproducibility, transparency, scientific rigor, and truthful communication in and about science should be supported. To the extent that EPA can enact guidance, statements, policies, and procedures that promote these practices, that is all to the good. Yet there must be flexibility

such that we may consider and speak openly about data even when those data have limitations including, but not limited to, incomplete transparency or reproducibility of some datasets and studies. Just as other scientific communities and other government regulatory bodies relying on scientific information must do, in this realm, I advocate that we consider *all* the information, while providing the most weight to the best information.

Appendix A

The Executive Summary from “Reproducibility and Replicability in Science” is copied below. The full report may be downloaded without charge at: <https://www.nap.edu/catalog/25303/reproducibility-and-replicability-in-science>

EXECUTIVE SUMMARY

When scientists cannot confirm the results from a published study, to some it is an indication of a problem, and to others, it is a natural part of the scientific process that can lead to new discoveries. As directed by Congress, the National Science Foundation (NSF) tasked this committee to define what it means to reproduce or replicate a study, to explore issues related to reproducibility and replicability across science and engineering, and to assess any impact of these issues on the public’s trust in science.

Various scientific disciplines define and use the terms “reproducibility” and “replicability” in different and sometimes contradictory ways. After considering the state of current usage, the committee adopted definitions that are intended to apply across all fields of science and help untangle the complex issues associated with reproducibility and replicability. Thinking about these topics across fields of science is uneven and evolving rapidly, and the report’s proposed steps for improvement are intended to serve as a roadmap for the continuing journey toward scientific progress.

We define *reproducibility* to mean computational reproducibility—obtaining consistent computational results using the same input data, computational steps, methods, and code, and conditions of analysis; and *replicability* to mean obtaining consistent results across studies aimed at answering the same scientific question, each of which has obtained its own data. In short, reproducibility involves the original data and code; replicability involves new data collection and similar methods used by previous studies. A third concept, *generalizability*, refers to the extent that results of a study apply in other contexts or populations that differ from the original one.¹¹ A single scientific study may entail one or more of these concepts.

Our definition of reproducibility focuses on computation because of its large and increasing role in scientific research. Science is now conducted using computers and shared databases in ways that were unthinkable even at the turn of the 21st century. Fields of science focused solely on computation have emerged or expanded. However, the training of scientists in best computational research practices has not kept pace, which likely contributes to a surprisingly low rate of computational reproducibility across studies. Reproducibility is strongly associated with transparency; a study’s data and code have to be available in order for others to reproduce and confirm results. Proprietary and non-public data and code add challenges to meeting transparency goals. In addition, many decisions related to data selection or parameter setting for code are made throughout a study and can affect the results. Although newly developed tools can be used to capture these decisions and include them as part of the digital record, these tools are not used by the majority of scientists. Archives to store digital artifacts linked to published results are inconsistently maintained across journals, academic and federal institutions, and

¹¹ The definition of generalizability used by the NSF (Bollen, et al., 2015).

disciplines, making it difficult for scientists to identify archives that can curate, store, and make available their digital artifacts for other researchers.

To help remedy these problems, the NSF should, in harmony with other funders, endorse or create code and data repositories for long-term preservation of digital artifacts. In line with its expressed goal of “harnessing the data revolution,” NSF should consider funding tools, training, and activities to promote computational reproducibility. Journal editors should consider ways to ensure reproducibility for publications that make claims based on computations, to the extent ethically and legally possible.

While one expects in many cases near bitwise agreement in reproducibility, the replicability of study results is more nuanced. Non-replicability occurs for a number of reasons that do not necessarily reflect that something is wrong. Some occurrences of non-replicability may be helpful to science—discovering previously unknown effects or sources of variability—while others, ranging from simple mistakes to methodological errors to bias and fraud, are not helpful. It is easy to say that potentially helpful sources should be capitalized on, while unhelpful sources must be minimized. But when a result is not replicated, further investigation is required to determine whether the sources of that non-replicability are of the helpful or unhelpful variety or some of both. This requires time and resources and is often not a trivial undertaking.

A variety of standards are used in assessing replicability, and the choice of standards can affect the assessment outcome. We identified a set of assessment criteria that apply across sciences highlighting the need to adequately report uncertainties in results. Importantly, the assessment of replicability may not result in a binary pass/fail answer; rather, the answer may best be expressed as the degree to which one result replicates another.

One type of scientific research tool, statistical inference, has had an outsized role in replicability discussions due to the frequent misuse of statistics such as the p -value and threshold for determining “statistical significance.” Inappropriate reliance on statistical significance can lead to biases in research reporting and publication; although publication and research bias are not restricted to studies involving statistical inference. A variety of ongoing efforts is aimed at minimizing these biases and other unhelpful sources of non-replicability.

Researchers should take care to estimate and explain the uncertainty inherent in their results, to make proper use of statistical methods, and to describe their methods and data in a clear, accurate, and complete way. Academic institutions, journals, scientific and professional associations, conference organizers and funders can take a range of steps to improve replicability of research. We propose a set of criteria to help determine when testing replicability may be warranted. It is important for everyone involved in science to endeavor to maintain public trust in science based on a proper understanding of the contributions and limitations of scientific results.

A predominant focus on the replicability of individual studies is an inefficient way to assure the reliability of scientific knowledge. Rather, reviews of cumulative evidence on a subject, to assess both the overall effect size and generalizability, is often a more useful way to gain confidence in the state of scientific knowledge.

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DAVID B. ALLISON is dean of the School of Public Health and distinguished professor and provost professor at Indiana University, Bloomington. Previously, he was associate dean for research and science in the School of Health Professions at the University of Alabama at Birmingham. Dr. Allison's research interests include obesity and nutrition, quantitative genetics, clinical trials, statistical and research methodology, and research rigor and integrity. He has authored more than 600 scientific publications and edited five books. A member of the National Academy of Medicine of the National Academies, he is also an elected fellow of the American Association for the Advancement of Science, American Statistical Association, American Psychological Association, New York Academy of Medicine, Gerontological Society of America, Academy of Behavioral Medicine Research, and other academic societies. He was inducted into the Johns Hopkins University Society of Scholars in 2013 and has received many awards, including the National Science Foundation-administered and White House Conferred 2006 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring; Centrum Award from the American Society of Nutrition; TOPS Research Achievement Award from the Obesity Society; Alabama Academy of Science's Wright A. Gardner Award; U.S. Department of Agriculture's W.O. Atwater Award and Lectureship; and the 2018 American Statistical Association's Statistical Advocate of the Year Award. Professor Allison is known for his commitments to mentoring and diversity in science and rigorous research and unvarnished reporting of research findings.

DAVID B. ALLISON, Ph.D.

*Dean,
Distinguished Professor,
& Provost Professor*

School of Public Health
Indiana University, Bloomington, Indiana
1025 E 7th Street, PH 111
Bloomington, IN 47405
Phone: 812-855-1250
Email: allison@iu.edu

CITIZENSHIP: United States Citizen

ORCID: 0000-0003-3566-9399

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EDUCATION

Columbia University College of Physicians and Surgeons & Saint Luke's/Roosevelt Hospital
NIH Post-Doctoral Research Fellowship in the Department of Medicine & Obesity
Research Center, 1991-94

Johns Hopkins University School of Medicine & The Kennedy Institute
Post-Doctoral Fellow in Departments of Pediatrics and Behavioral Psychology, 1990-91

Hofstra University, Hempstead, New York
Ph.D. in Clinical and School Psychology from an APA approved program, July 1990.

Hofstra University, Hempstead, New York
Master of Arts in Clinical and School Psychology, August 1987.

Vassar College, Poughkeepsie, New York
Bachelor of Arts in Psychology, May 1985.

CURRENT EMPLOYMENT

Indiana University Bloomington: August 2017 - Present

Dean, School of Public Health.

Provost Professor (tenured). Provost professors “have achieved local, national, and international acclaim both for their research/creative activity and for their teaching”¹ and Indiana University.

Primary Departmental Affiliation: Department of Epidemiology & Biostatistics.

◆ ***Distinguished Professor*** (2018 to current). “Distinguished Professor is a University-wide appointment, recognizes international accomplishments, is to be limited in number, and is to be recommended to the Board by the Office of the President in order to confer richly deserved prestige and honor on those selected to receive this designation” (Indiana University Policy).

PAST EMPLOYMENT

The University of Alabama at Birmingham – Primary Roles

◆ ***Distinguished Professor*** (2011 to 2017). “Distinguished Professor is a campus-wide appointment, recognizes international accomplishments, is to be limited in number, and is to be recommended to the Board by the appropriate President and the Chancellor in order to confer richly deserved prestige and honor on those selected to receive this designation” (UAB Faculty Handbook). Dr. Allison was the 21st person to receive this distinction in the history of UAB.

October 2016 to August 2017, my two primary roles within UAB (in addition to being a faculty member) were as follows.

Associate Dean for Research & Science of the School of Health Professions

As Associate Dean for Research & Science, I serve as part of the School’s leadership team. I advise the dean and contribute the School’s development (philanthropic fund-raising campaign). My mission is to promote the highest levels of scientific achievement in terms of rigor, quality, impact, funding, and productivity. I am charged with developing a research promotion program involving seminars and services to facilitate, encourage, and support the School’s scientific enterprise. I have responsibility for assessing the School’s scientific productivity and needs and constructing a plan to meet those needs. That work is underway.

Director, Nutrition Obesity Research Center and Director, Office of Energetics

Position entails: (a) Growing and leading Center of over 130 members; (b) Obtaining competitive renewals of NIH Center Grant; (c) Developing, obtaining funding for, and leading extramurally funded training programs in obesity; (c) arranging and overseeing educational enrichment program of seminars, courses, workshops, and national conferences; (d) conducting original research on the causes, consequences, and treatment and prevention of obesity; (e) Facilitating the nutrition and obesity research of other investigators by funding core laboratories and pilot grants; (f) mentoring students, fellows, and young faculty; (g) supervising administrative staff; (h) Promoting new cross-campus collaborations; and (i) publicity and fund-raising.

As Director of the Office of Energetics (with energetics being the study of the causes, mechanisms, and consequences of the acquisition, storage, and utilization of metabolizable energy by biological organisms), I am responsible for developing unique programs and initiatives for this highly collaborative Office. These programs and initiatives address obesity and related factors from multiple perspectives to provide new insights.

July 2011 through September 2016, my two primary roles within the University were as follows.

Associate Dean for Science of the School of Public Health

As Associate Dean for Science, I play a major role in the School's development (philanthropic fund-raising campaign), have responsibility for promoting higher levels of scientific investigation and developing a comprehensive Research Support Program that offers programs, seminars, and services to facilitate, encourage, and support the School's scientific enterprise. I also established programs for the publicity for our research activities and restructuring of the School's IT Department.

In this role I have led and/or participated in activities including:

- School Reaccreditation (CEPH)
- School-Level Strategic Planning
- Fund-raising
- Faculty Recruitment
- Development of graduate student and post-doctoral training programs
- Grant promotions
- Managing challenging ethical/personnel issues
- Representing the School on University committees and projects related to research
- Budgeting and fiscal management

Director, Nutrition Obesity Research Center and Director, Office of Energetics

Position entails: (a) Growing and leading Center of over 130 members; (b) Obtaining competitive renewals of NIH Center Grant; (c) Developing, obtaining funding for, and leading extramurally funded training programs in obesity; (c) arranging and overseeing educational enrichment program of seminars, courses, workshops, and national conferences; (d) conducting original research on the causes, consequences, and treatment and prevention of obesity; (e) Facilitating the nutrition and obesity research of other investigators by funding core laboratories and pilot grants; (f) mentoring students, fellows, and young faculty; (g) supervising administrative staff; (h) Promoting new cross-campus collaborations; and (i) publicity and fund-raising.

As Director of the Office of Energetics (with energetics being the study of the causes, mechanisms, and consequences of the acquisition, storage, and utilization of metabolizable energy by biological organisms), I am responsible for developing unique programs and initiatives for this highly collaborative Office. These programs and initiatives address obesity and related factors from multiple perspectives in ways that provide new insights into this epidemic that ravages huge segments of the population.

The University of Alabama at Birmingham – Past Primary Roles (2001 to 2011)

Primary Appointment: ***Professor of Biostatistics***. My primary roles within the University were.

Head, Section on Statistical Genetics

Position entails: (a) Building and leading Section on Statistical Genetics; (b) conducting original research in design and statistical analysis methods with particular emphasis on statistical genetics; (c) conducting original research on the causes, consequences, and treatment and prevention of diseases areas; (d) collaborating with other investigators on their projects, particularly with respect to data analysis, and training students, interns and post-doctoral fellows; (e) developing curricula and participating in graduate level education; (f) supervising

Director, Nutrition Obesity Research Center

Position (appointed 2003) entails: (a) Growing and leading Center; (b) Obtaining competitive renewals of NIH Core Grant; (c) Developing, obtaining funding for, and leading extramurally funded training programs in obesity research; (c) arranging and overseeing educational enrichment program of seminars, workshops, and national conferences; (d) conducting original research on the causes, consequences, and treatment and prevention of obesity; (d) Facilitating the nutrition and obesity research of other investigators by funding core laboratories and pilot grants; (f) mentoring students,

faculty, fellows, and staff; and (g) fund-raising and administration.

fellows, and young faculty; (g) supervising administrative staff; and (g) fund-raising.

Other Notable Roles within UAB

- Head, Section of Statistical Genetics (SSG), Dept of Biostatistics, 2001 - 2011. Founded SSG in 2001. At peak, SSG included 13 full time faculty, and roughly 40 total personnel, with a total annual budget of ~ 3 to 4 \$million.
- Associate Director of Clinical Nutrition Research Center, 2001 – 2003
- Acting Director of Clinical Nutrition Research Center, Jan – May 2003
- Director of Nutrition Obesity Research Center (NORC; formerly called Clinical Nutrition Research Center), 2003 – 2017
- Senior Scientist, UAB Arthritis and Musculoskeletal Center, 2002 - 2017
- Senior Scientist UAB's Center for Outcomes and Effectiveness Research and Education (COERE), 2002 – 2017.
- Senior Scientist of UAB Comprehensive Cancer Center 2003 - 2017.
- Senior Scientist, UAB Minority Health and Research Center, 2003 – 2017
- Internal Advisory Committee member for UAB's Center for Aging Research, 2005 – 2017.
- Senior Scientist, UAB Center for Aging Research, 2005 – 2017
- Senior Scientist, UAB Comprehensive Diabetes Center, 2008 – 2017
- Senior Scientist, UAB Center for AIDS Research, 2008 – 2017
- Senior Scientist, UAB Center for Cardiovascular Biology, 2010 – 2017
- See '*INTRAMURAL COMMITTEE & SERVICE WORK*' section for additional UAB appointments.

Prior to UAB

June 1994 to March, 2001

The New York Obesity Research Center, Saint Luke's/Roosevelt Hospital Center. Position: Associate Research Scientist. Position entails designing and conducting original research in the causes, consequences, and treatment and prevention of obesity and related areas, collaborating with other investigators on their projects, particularly with respect to data analysis, and training students, interns and post-doctoral fellows.

- Member of Executive Committee.
- Associate Director of Biostatistics & Computing Sub-Core.
- Associate Director of Post-Doctoral Fellow Training Program.

PAST ACADEMIC APPOINTMENTS

October, 2016 to 2017.

Primary Appointment

Distinguished Professor, Department of Nutrition Sciences, Associate Dean for Research & Science, (with tenure) – University of Alabama at Birmingham, School of Health Professions.

Secondary Appointments

Professor, Department of Biology, College of Arts & Sciences, UAB.
Professor, Department of Biostatistics, School of Public Health, UAB.
Professor, Department of Genetics, School of Medicine, UAB.
Professor, Department of Medicine, School of Medicine, UAB.

July, 2011 to September, 2016.

Primary Appointment

Distinguished Professor, Quetelet Endowed Professor of Public Health, Associate Dean for Science, (with tenure) – University of Alabama at Birmingham, School of Public Health.

Secondary Appointments

Professor, Department of Biology, College of Arts & Sciences, UAB (as of Sept 1, 2016).
Professor, Department of Biostatistics, School of Public Health, UAB.
Professor, Department of Nutrition Sciences, School of Health Professions, UAB.
Professor, Department of Genetics, School of Medicine, UAB.
Professor, Department of Medicine, School of Medicine, UAB.

March, 2001 to June 2011.

Primary Appointment

Professor of Biostatistics (with tenure) – University of Alabama at Birmingham, School of Public Health, Department of Biostatistics.

Secondary Appointments

Professor, Department of Nutrition Sciences, University of Alabama at Birmingham.
Professor, Department of Genetics, University of Alabama at Birmingham.
Professor, Department of Medicine, Division of Rheumatology, University of Alabama at Birmingham.

April 1999 to March, 2001. Associate Professor of Medical Psychology (in Psychiatry) - Columbia University College of Physicians and Surgeons.

December 1998 to June, 2001. Doctoral Program Subcommittee on Nutrition Member, Columbia University Institute of Human Nutrition.

July 1997 to 2000. Assistant Professor (adjunct) of Psychology (in Psychiatry) in the Associated Faculty of the School of Medicine – University of Pennsylvania.

September 1994 to March 1999. Assistant Professor of Clinical Psychology (in Psychiatry) - Columbia University College of Physicians and Surgeons.

HONORS & AWARDS

- Selected to receive The *Harry V. Roberts Statistical Advocate of the Year Award* from the American Statistical Association, 2018.
- Elected to *European Academy of Sciences and Arts*, 2018.
- Elected to the *Academia Europaea*, 2017. *Academia Europaea* is the only Europe-wide Academy with individual membership from Council of Europe states and other nations across the world and is an organisation of eminent, individual scientists and scholars, covering the full range of academic disciplines.
- Selected to receive the *Thomas A. Wadden Award for Distinguished Mentorship* from the Obesity Society, 2017.
- Elected a fellow to the Academy of Behavioral Medicine Research, 2017.
- Received Texas A&M Department of Health & Kinesiology Scholar Award, the department's highest honor bestowed to colleagues in the field and delivered Distinguished Lecture, April, 2017.
- Received the American College of Nutrition's Mark Bieber Professional Award, 2016.
- Selected to deliver the 2016 Indiana University School of Medicine Corcoran Lecture, and distinguished endowed lectureship. Lecture delivered October, 2016.
- Invited to and attended *The White House by the Office of Science and Technology Policy* to participate in a symposium on *STEM mentoring and volunteering*, August, 2016.
- Elected a Fellow of the American Heart Association (FAHA) conferred by the Council on Lifestyle and Cardiometabolic Health, 2015.
- Selected as annual 'Blackburn Lecturer', 2015. Each year, the Blackburn Lectureship honors the seminal accomplishments of a leader in Obesity Medicine, who gives a state-of-the-art lecture at Harvard's *Blackburn Course in Obesity Medicine*.
- Awarded the 'F1000 Faculty Member of the Year Award 2014' for the Diabetes & Endocrinology Faculty.
- Elected as a Fellow of the New York Academy of Medicine, 2014.
- Elected as a Fellow of the Gerontological Society of America, 2014.
- Selected for the 2014 [Carl J. Martinson, MD, Lectureship in Preventive Medicine](#) by the University of Minnesota.
- Selected as the 2014 Atwater Lecturer by the USDA and the American Society for Nutrition. The W.O. Atwater Lectureship was established in 1968 to honor the memory of Wilbur Olin Atwater (1844-1907) and to recognize scientists who have made unique contributions toward improving the diet and nutrition of people around the world.
- Sigma Xi, The Scientific Research Honor Society – Elected to Membership, 2014.
- Appointed a Faculty Member of F1000Prime (<http://f1000.com/prime>) – 2014.
- Selected as the 1st prize of "International Journal of Environmental Research and Public Health Best Paper Award 2014" and received 600 CHF for paper: Elobeid, M.A., Padilla, M.A., Brock, D.W., Ruden, D.M., Allison, D.B. (2010). Endocrine Disruptors and Obesity: An Examination of Selected Persistent Organic Pollutants in the NHANES 1999–2002 Data. *International Journal of Environmental Research in Public Health* 7, 2988-3005; doi:10.3390/ijerph7072988. PMID: PMC2922741.

- Selected as the 2013 Joy Goodwin Distinguished Lecturer by Auburn University. <http://www.vetmed.auburn.edu/joy-goodwin-lecture-series#.Uxsp6U2YY3E>.
- Selected for membership in the national public health honor society, Delta Omega, 2013.
- Recipient of 2013 The Wright Gardner Award from the Alabama Academy of Science. This award was established by the Alabama Academy of Science to honor individuals whose research work during residence in Alabama has been outstanding.
- Elected to membership in the Johns Hopkins Society of Scholars in 2013. The Society was established in 1967 by the trustees of the University to honor distinguished former Johns Hopkins postdoctoral fellows and junior or visiting faculty who have served at least a year at Johns Hopkins and thereafter gained marked distinction elsewhere in their fields.
- Recipient of American Society of Nutrition's 2013 Dannon Institute Mentorship Award.
- Recipient of UAB Graduate Dean's Excellence in Mentorship Award for 2013.

Elected to National Academy of Medicine (formerly the Institute of Medicine) of the United States National Academies, 2012.

- Appointed the first *Quetelet Endowed Professor of Public Health* by the University of Alabama at Birmingham, 2012.
- Elected to Fellowship in the Institute of Mathematical Statistics, 2012.
- Selected as the 2011 UAB Distinguished Faculty Lecturer Award. The Distinguished Faculty Lecturer Award honors individuals in the Academic Health Center of the University of Alabama at Birmingham who have made major contributions in education, research, or service. It is the highest award UAB gives on the Health Sciences campus. See: <http://www.soph.uab.edu/event/distinguishedfaculty2011>.
- Selected as 2011 Annual Delta Omega Honorary Society Lecturer by the University of South Carolina. Presented talk entitled: "Obesity: A Look Through the Kaleidoscope".
- Member of National Institutes of Health College of CSR Reviewers, appointed 2010.
- Recipient of the 2009 TOPS Research Achievement Award from the Obesity Society (formerly NAASO). This award recognizes an individual for singular achievement or contribution to research in the field of obesity. Recipients receive a \$5,000 cash prize plus a travel grant to the Annual Scientific Meeting. The award was presented during a plenary session at the annual meeting at which the recipient delivers the TOPS Award Lecture.
- Recipient of the American Society of Nutrition's Centrum Center for Nutrition Science Award. Given in recognition of recent investigative contributions of significance to the basic understanding of human nutrition. Conferred at ceremony at the Experimental Biology meeting in 2009.
- Elected Fellow of the American Association for the Advancement of Science (AAAS), 2009.
- Elected as a Fellow of the Society of Behavioral Medicine, 2009.

- Faculty mentor of the year nominee at the Compact for Faculty Diversity Institute on Teaching and Mentoring, 2009.
- Elected as a Fellow of the American Psychological Association, 2008.
- Recipient of a 2008 Minority Health Research Center (MHRC) Charles Barkley Excellence in Mentoring Award. Award conferred by Charles Barkley at MHRC Gala.

Recipient of a 2006 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM). The White House established the Presidential Awards for Excellence in Science, Mathematics and Engineering Mentoring (PAESMEM) to identify outstanding mentoring efforts to enhance the participation of groups underrepresented in science, mathematics and engineering. The awards are given competitively as part of a national peer-review process. This is the nation's highest award for mentoring given to no more than 10 individuals nationally each year. It was accompanied by a \$10,000 prize, a Presidential certificate awarded at the White House on November 16th, 2007, and a personal visit with President Bush in the Oval Office.

- Elected as a Fellow of the American Statistical Association, 2007, a distinction given to no more than 1/3rd of 1% of the membership annually.
- Elected Fellow of the American Psychological Society.
- Selected as a 2007 John H. Blaffer Lecturer by the MD Anderson Cancer Center.
- Selected as the Spring 2006 York Distinguished Lecturer by the University of Florida. See: <http://yorklecture.ifas.ufl.edu/Allison.htm>
- Selected as 2006 Residents' Invitational Grand Rounds Lecturer for the Department of Psychiatry at Washington University of St. Louis.
- Recipient of the 2005 UAB School of Public Health Distinguished Faculty Investigator Award.
- Elected as Fellow of the Society for Design and Process Science in 2004.
- Recipient of the 2002 Andre Mayer Award from the International Association for the Study of Obesity (IASO). This international award is given once every four years to signify outstanding achievement by an investigator who is less than 40 years old. Award conferred August 2002 and accompanied by a \$1,000 prize.
- Recipient of the 2002 Lilly Scientific Achievement Award from the North American Association for the Study of Obesity (NAASO). This annual award is intended to signify outstanding achievement by an investigator who is within 15 years of having received their doctoral degree. Accompanied by a \$5,000 prize.

- Recipient of the 2000 Wodecroft Investigator Award from the National Alliance for Research on Schizophrenia and Affective Disorders.
- Recipient of the 1999 Award for *Outstanding Achievement in Health Psychology* from the Health Psychology Division of the American Psychological Association.
- Visiting Professor at Guy's & St. Thomas' Trust Hospital's Twin Research & Genetic Epidemiology Unit, London England, 1999-2000.
- Recipient of the 1996 Neal Miller Early Career Award from the Academy of Behavioral Medicine. Award accompanied by \$1,500 prize.
- Received Bursary Award from the Ciba Foundation to attend Symposium on *The Origins and Consequences of Obesity* in Kingston, Jamaica, November 27-30, 1995. Award paid all expenses to conference and provided full support to visit and study in another scientist's laboratory. I studied statistical gene mapping strategies with Nicholas Schork and Robert Elston at Case Western Reserve University from January 1996 to February 1996.
- Received 1995 Young Investigators award for travel to and attendance at FASEB Summer Conference on *Genetic Aspects of Obesity and Energy Regulation*.
- Recipient of the 1994 Theodore Tjossom Post-Doctoral Award for paper: Allison, D. B., Heshka, S., Sepulveda, D., Babbitt, R. L., & Heymsfield, S. *Resting Metabolic Rate Among Persons with Down Syndrome*. Award accompanied by \$400 prize.
- Finalist (one of three) for the Society for Clinical Trials' Student and Post-Doctoral Fellow Scholarship Awards for: Allison, D. B., & Pi-Sunyer, F. X. *Optimal Stage I Screening Criteria to Minimize Clinical Trial Recruitment Costs*. Presented at the annual meeting of the Society for Clinical Trials, May, 1994.
- Finalist for 1993 North American Association for the Study of Obesity Young Investigator Award for study: Allison, D. B., Neale, M. C., Heshka, S., & Heymsfield, S. B. *Race Effects in the Genetics of Adolescents' Body Mass Index*.
- Received Travel Award to Young Investigators at the 1993 FASEB Summer Conference on *Genetic Aspects of Obesity and Energy Regulation* held in Copper Mountain Colorado.
- Received 1992 Clinical Nutrition Fellows Award by the American Society for Clinical Nutrition for: Allison, D. B., Heshka, S., & Heymsfield, S. B. *The Independent Effects of Age on Metabolic Rate: A "Mini-Meta-Analysis."* Award accompanied by \$750 prize.
- Received Merit Citation from Society for Behavioral Medicine for: Murphy, C. M., Babbitt, R. L., Allison, D. B., & Patterson, H. L. *The Prevalence and Characterization of Obesity Among Children with Developmental Disabilities Compared to Nondevelopmentally Disabled Controls*. Paper presented to the Society for Behavioral Medicine, 1992.
- Nominated for the 21st Annual James McKeen Cattell Award of the New York Academy of Sciences for an outstanding doctoral dissertation in psychology, 1990-91.
- Nominated for Robinson Award for best dissertation at Hofstra University in 1990.

KEY LEADERSHIP ACTIVITIES IN FUND-RAISING, EDUCATION, TRAINING & RESEARCH
PROMOTION (selected)

- **Established the “William Sealy ‘Student’ Gosset Professorship” in Biostatistics at UAB.** Conceived the idea and raised the endowment funds. Approved by UAB’s Board of Trustees in 2008. This is the first endowed professorship in UAB’s School of Public Health. Website at <http://www.soph.uab.edu/ssg/opportunities/endowedprofessorship>.
- **Established the “Sir David Cox Professorship” in Biostatistics at UAB.** Conceived the idea and raised the endowment funds. Approved by UAB’s Board of Trustees in 2010. This is the second endowed professorship in UAB’s School of Public Health. Website at <http://www.soph.uab.edu/news/coxprofessorship>.
- **Established the “Quetelet Endowed Professor of Public Health” at UAB.** Conceived the idea and raised the endowment funds. Approved by UAB’s Board of Trustees in 2012. This is the third endowed professorship in UAB’s School of Public Health. Website at <http://www.uab.edu/development/waystogive/endowments/professorships>.
- **Established the “Antoine Lavoisier Endowed Professorship of Energetics and Healthy Lifestyles” at UAB.** Conceived the idea and raised the endowment funds. Approved by UAB’s Board of Trustees in 2014. This is the fourth endowed professorship in UAB’s School of Public Health.
- **Founding Editor-in-Chief of Frontiers in Genetics,** an open-source peer-reviewed journal, 2010 - present.
- **Developed & Established Campus-Wide ‘Biguan’ Program,** a coaching and ‘secluded writing’ program for helping both senior and early-career faculty and scientists produce better grant applications with greater ease and speed implemented at UAB.
- **Science Unbound Foundation (SUF).** Founded and serve as the President of the SUF. The SUF is an IRS-approved 501c3 not-for-profit foundation that was inaugurated on 6/17/03 and has as its mission: "Furthering scientific knowledge in the service of health, happiness, and quality of life of humankind through scientific research and education." The Foundation provides annual awards to investigators for papers published in 5 categories: (UAB) obesity or nutrition, (UAB) statistical genetics, (UAB) general statistics, (UAB Student) obesity-related research, & (New York Obesity Research Center, St. Luke’s-Roosevelt Hospital/Columbia University) obesity-related. - Website at <http://www.scienceunboundfoundation.org/index.html>.
- **Janet L. Norwood Award for Outstanding Achievement by A Woman in The Statistical Sciences.** Conceived and established the award not only to recognize Dr. Norwood’s achievements, but also to recognize the contribution of all women to the statistical sciences. Currently fund-raising for endowment. For details, see: <http://www.soph.uab.edu/ssg/norwoodaward/aboutaward>.
- **Short Course "Statistical Genetics & Genomics".** Principal Investigator & Director of National Science Foundation-funded national short course held annually. 2008 to 2010. - Website at <http://www.soph.uab.edu/ssg/courses>.
- **Short Course "Statistical Genetics for Obesity & Nutrition Researchers".** Principal Investigator & Director of NIDDK-funded national short course "Statistical Genetics for Obesity & Nutrition Researchers" (R01DK056366 & R56DK056366). Six courses held with roughly 50 students per course for the grant period from 7/1/00 - 6/30/06. - Website at <http://www.soph.uab.edu/ssg/courses>.
- **Short Course "Frontiers in Statistical Genetics for NIAMS Researchers".** Co-Director of NIAMS-funded national short course "Frontiers in Statistical Genetics for NIAMS Researchers"

(R13AR051126). Two courses held with roughly 50 students per course for the grant period 6/1/04 - 5/31/06. - Website at <http://www.soph.uab.edu/ssg/courses>.

- **Short Course on "Design and Analysis of Plant Microarray Experimentation"**. Principal Investigator & Director of NSF-funded national short course offered as part of "Design and Analysis of Plant Microarray Experimentation" (grant # 0217651). Two courses held with roughly 50 students per course for the grant period from 10/1/02 - 9/30/06. - Website at <http://www.soph.uab.edu/ssg/courses>.
- **UAB Statistical Genetics Post-doctoral Training Program**. Principal Investigator & Director of NHLBI-funded T32HL072757 "UAB Statistical Genetics Post-doctoral Training Program" for postdoctoral fellows. Wrote initial grant application to obtain funding for program, responsible for recruitment of fellows, overseeing implementation of program, mentoring other mentors, and mentoring selected fellows. 6 slots per year for the grant period 4/01/09 - 3/31/13. - Website at <http://www.soph.uab.edu/ssg/opportunities/postdoctoral>
- **UAB Obesity Post-Doctoral Training Program**. Principal Investigator & Director of NIDDK-funded T32DK062710 "UAB Obesity Training Program" for postdoctoral fellows. Wrote initial grant application to obtain funding for program, responsible for recruitment of fellows, overseeing implementation of program, mentoring other mentors, and mentoring selected fellows. 4 slots per year for the grant period 6/1/04 - 5/20/09. - Website at <http://www.norc.uab.edu/opportunities>.
- **UAB NHLBI-funded Obesity Pre-Doctoral Training Program**. Principal Investigator & Director "UAB Pre-Doctoral Training Program in Obesity Related Research." A T32 pre-doctoral training grant from the National Heart, Lung, and Blood Institute (T32HL105349). Period: 09/22/2010 – 08/31/2015. Will have 8 slots per year once achieving steady state.
- **Kraft-UAB Obesity Pre-Doctoral Training Program**. Principal Investigator & Director of Kraft Foods-funded grant to offer pre-doctoral training fellowships to Ph.D. students studying obesity-related research at UAB. 2006 – 2013.
- **UAB Biostatistics Pre-doctoral Training Program**. Initial Principal Investigator & Director of NHLBI-funded 32HL079888 "UAB Biostatistics Pre-doctoral Training Program" predoctoral fellows. Wrote initial grant application to obtain funding for program, responsible for recruitment of fellows, overseeing implementation of program, mentoring other mentors, mentoring selected fellows, for the initial grant period. Then passed Directorship to Hemant Tiwari. Website at <http://www.soph.uab.edu/ssg/opportunities/predocutorial>.
- **Hughes Med-Grad (HMG) Fellowship Program** for predoctoral fellows, Principal Investigator Thomas Clemens PhD. Assisted Dr. Clemens in conceiving program and writing grant application to the Howard Hughes Medical Institute. Currently serve as a member of the HMG Development Committee, Core Leadership team, Co-Direct the Quantitative Methods course, and as a potential mentor for fellows. The program aims to create a new pathway of graduate education designed to give PhD students a more targeted exposure of human biology and disease. The interdepartmental program pairs students with mentors conducting cutting edge disease-based research and provides exposure to patient-oriented, case-based topics, clinical research design and understanding of drug discovery. 6 slots, 4/1/06 - 3/31/10. - Website at http://peir.path.uab.edu/medintograd/cat_index_29.shtml.
- **Chair of UAB's Council of Center Directors**. Elected 2008. Served as Chair-Elect in 2009 and Chair in 2010. UAB's Council of Center Directors is the key convening body for the over 20 University-Wide Interdisciplinary Research Centers on campus that collectively represent on the order of 80% or more of the research conducted at UAB.
- **Creation of Professional Scientist Career Track at the University**. Conceived and led the university-level creation of a career track for professional non-faculty scientists with positions labeled *Scientist I* through *Scientist IV*. Approved by University in 2016.

FORMAL LEADERSHIP TRAINING

Successfully completed Leadership Training in the Executive Education program at Duke University's Fuqua School of Business, 2010.

PATENT(S)

- Patent Pending US 20130261470 A1 Systems and methods for estimating body composition: <http://www.google.com/patents/US20130261470>.

BOARDS of TRUSTEES

- Chairman of the Board of Trustees for the International Life Science Institute, North America, 2013 to 2015.
- Member of the Board of Trustees for the International Life Science Institute, North America, 2002 to present.
- Vice-Chair of the Board of Trustees for the International Life Science Institute, North America, 2011 to 2013.

SERVICE to THE NATIONAL ACADEMIES

Provide regular service to the National Academies, including the National Academy of Sciences and the National Academy of Medicine (of which I am an elected member). Examples follow below.

- Review Monitor for study report: A Class Approach to Hazard Assessment of Organohalogen Flame Retardants.
- Reviewer for Academy report: *Open Science by Design: Realizing a Vision for 21st Century Research*, 2018.
- Proposal reviewer for National Academy of Sciences Sackler Colloquium on *Science of Science Communication IV*. (<http://www.nasonline.org/programs/sackler-colloquia/>) – 2018.
- Appointed Member to The National Academies of Sciences, Engineering, & Medicine (NAEM) Committee: Reproducibility and Replicability in Science, 2017 - . Produced report. <https://doi.org/10.17226/25303>
- Lead organizer and proposer for National Academy of Sciences Sackler Colloquium (<http://www.nasonline.org/programs/sackler-colloquia/>) titled “Reproducibility of Research: Issues and Proposed Remedies.” Held in March 2017.
- Committee member of the National Academy of Engineering (NAE) project on *Promising Practices and Innovative Programs in Responsible Conduct of Research (RCR)*. 2019-2020.

Invited by the Governing Board of the National Research Council to provide a lecture offering perspective on reproducibility and replicability in research at the May 2017 meeting at the National Academies Keck Center.

Appointed to the Academies' Committee on Breakthroughs 2030: A Strategy for Food and Agricultural Research, to lead the development of an innovative strategy for the future of food and agricultural research, 2017. Produced report. <https://doi.org/10.17226/25059>

- Consultant to Editor-in-Chief and Deputy Executive Editor of the *Proceedings of the National Academy of Sciences* (PNAS) on checking the statistical analyses of research in question and

charged with drafting new instructions for authors on statistical analysis and reporting guidelines for PNAS, 2017.

- Participated by invitation in The National Academy of Sciences' Government-University-Industry Research Roundtable on Scientific Integrity Consortium meeting, March, 2017.

Appointed to first expert panel on purported mathematical errors in the 2011 IOM Report, "Dietary Reference Intakes: Calcium and Vitamin D," for which we examined statistical mistakes in reference to the calculation of dietary intake of Vitamin D for the National Academy of Sciences, 2017.

Appointed to second expert panel to assess impact of mathematical errors in the 2011 IOM Report, "Dietary Reference Intakes: Calcium and Vitamin D" for the National Academy of Sciences, 2017.

- Serving as Review Monitor for Food and Nutrition Board (FNB) of the National Academies of Sciences, Engineering, and Medicine report *Development of Guiding Principles for the Inclusion of Chronic Disease Endpoints in Future Dietary Reference Intakes*, 2017.
- Reviewer for "Fostering Integrity in Research" report of the National Academy of Sciences, 2016.
- Reviewer of report by the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine, Committee on Food Allergies: Global Burden, Causes, Treatment, Prevention, and Public Policy, 2016.
- Review of "Toward Science-Based Approaches to Science Communication" by the Committee on the Science of Science Communication: A Research Agenda, Division of Behavioral and Social Sciences and Education, National Academy of Sciences, 2016.
- Reviewer of "Toward Science-Based Approaches to Science Communication" by the Committee on the Science of Science Communication: A Research Agenda, Division of Behavioral and Social Sciences and Education, National Academy of Sciences, 2016.

Member of The National Academies of Sciences, Engineering, and Medicine Intelligence Science and Technology Experts Group (ISTEG) organized to support the Office of the Director of National Intelligence (ODNI), 2015-present. Approved by the US Government to review classified information.

- Reviewer for the National Academy of Sciences and National Research Council report on "The Postdoctoral Experience Revisited: When the Ideal and the Reality Diverge," 2014.
- Reviewer for Institute of Medicine on *Consequences of Sodium Reduction in Populations*, 2013.
- Reviewer for Institute of Medicine - *Draft on Taking Action in Evaluating Progress of Obesity Prevention Efforts*, 2013.
- Appointed Planning Committee Member of the National Academy of Medicine's Interest Group (IG) 12 on Nutrition, Diabetes, and Obesity. December 2012 through November 2013.
- Appointed Chair the of the National Academy of Medicine's Interest Group (12) on Nutrition, Diabetes, and Obesity, beginning on 11/1/13 for a two-year term.
- Appointed Member the leadership team of the National Academy of Medicine's Interest Group (12) on Nutrition, Diabetes, and Obesity, 2015–2016.
- Appointed Member of the National Academy of Medicine Interest Group Monitoring Committee January 2016 through December 31, 2017.
- Allison, D.B. (2012) "Myths, Presumptions, and Facts of Obesity: Science as the Sifter." Invited speaker for the National Academy of Sciences Institute of Medicine (IOM) interest group meeting. Washington, DC on October 14, 2012.
- Allison, D. B. Moderator/Socratic Dialogue Leader for session on *FOOD TECHNOLOGY: DIRECTIONS FOR THE FUTURE*. Invited presentation at the Institute of Medicine's Food Forum, November, 2010.

- Allison, D. B. (July, 2000). Obesity, Genetics and Mortality. An invited address delivered before the National Academy of Sciences' Panel on Dietary Reference Intakes, Washington, D.C.
- Reviewer for *Proceedings of the National Academy of Sciences* — 2004, 2007, 2009, 2015, 2017, 2018.

CONSULTING and ADVISING (selected listing)

GOVERNMENT (not necessarily an exhaustive listing)

- Invited member of National Institutes of Health (NIH) Nutrition Research Thought Leader Panel to “provide visionary input in prioritizing gaps and opportunities for strategic planning of nutrition research at the NIH”, 2017.
- By invitation, provided written testimony to the *House Committee on Agriculture* regarding the use of scientific methods to inform policy decisions regarding nutritional matters, including SNAP benefits, February, 2017.
- Advisory Committee Member of the NIH/NIDDK-sponsored Mouse Metabolic Phenotyping Centers (MMPC), 2016 - present
- Special Government Employee for the Food and Drug Administration (FDA), 2015 – present.
- Consultant/Invited Commentator 2016 for the Strategic Review of Nutrition and Human Health research of the UK Medical Research Council (MRC) and the UK National Institute for Health Research (NIHR).
- Consultant to Federal Trade Commission (FTC) on validity of weight loss product claims, 1998 – 2005, 2009-2010, 2012-2017.
- Consultant to the State of Oregon Department of Justice on the validity of marketed claims in dietary supplements, 2015-2016.
- Consultant to NIH's Office of the Director on selecting and prioritizing Common Fund Initiatives via the *Innovate to Accelerate* committee, 2015.
- Consultant/Panelist to NIH Obesity Research Task Force Seminar on neuromodulatory therapies for the treatment of obesity, 2015.
- Co-led Workshop given to FDA's Contacts in the Center for Biologics Evaluation & Research (CBER) on the Application of Genomic Science, Sept, 2012.
- Member of Advisory Board for National Institutes of Health (NHLBI)'s Bed to Bassinet pediatric heart research program, 2010 – 2011.
- Consultant to U.S. Department of Justice (DOJ) on validity of weight loss product claims, 2004 – 2006.
- Consultant to United States Postal Inspectors' Service on validity of weight loss product claims, 2001, 2004 - 2005.
- Consultant to Food and Drug Administration's (FDA) on validity of weight loss product claims, 2002 – 2004.
- Consultant/reviewer for the RAND Corporation on a comprehensive report of the safety and efficacy of ephedra and ephedrine containing products for weight loss funded by the Agency for Health Care Policy & Research, 2002.
- Consultant to the National Institute of Diabetes, Digestive, and Kidney Diseases (NIDDK) of the National Institutes of Health on preparation of the document: *Conquering Diabetes*.

Highlights of program efforts, research advances opportunities. A scientific progress report on the Diabetes Research Working Group's strategic plan. NIH Publication No. 02-5137. September, 2002.

- Served on a special Public Affairs Task Force of the North American Association for the Study of Obesity (NAASO) to provide information regarding dietary supplements for weight loss to the U.S. General Accounting Office (GAO) – 2002.
- Consultant to the Food and Drug Administration in their oversight and collaborative development of Proctor & Gamble's post-market surveillance of olestra (*Olean*); 1996-1997.
- Statistical Consultant to U.S. Department of Justice, Federal Bureau of Prisons regarding detection of malingering versus psychopathology, 1996.
- Member of expert advisory panel convened by the Life Sciences Research Office of the Federation of American Societies of Experimental Biology at the behest of the Food and Drug Administration (FDA) to prepare a document advising the FDA as to how to review petitions for new food additives (e.g., macronutrient substitutes), 1996-1999.
- Served on Food and Drug Administration's (FDA) Scientific Advisory Council to review the fat replacer *olestra* (sucrose polyester), 1995.

NON-PROFIT (not necessarily an exhaustive listing)

- Member of the MD Anderson Cancer Center's President's Advisory Board, 2016-2018.
- Served as Panelist-Mentor for The Dannon Institute's Nutrition Leadership Institute, June 2017.
- Member of Scientific Advisory Board for the Nutrition Science Initiative, 2015 – present.
- Statistical consultant to Palo Alto Longevity Prize (<http://paloaltoprize.com/>), 2015 – present.
- External Advisory Board member for the Nutrition Science Initiative (NuSI)-funded Consortium Experiment on macronutrient composition and metabolic effects, 2013 - 2016.
- Reviewer of draft position statement for the American Society for Nutrition (ASN), 2013.
- Advisor to The David and Lucile Packard Foundation on fructose-related research, 2012.
- Consultant to Consumers' Union regarding survey design to assess weight loss success associated with various commonly marketed techniques, 2001.
- "Communicator" for the International Food Information Council, an organization whose mission is to help the public and mass media obtain accurate information regarding food-related issues. Responsibilities include giving interviews to members of the mass media, developing educational materials for the general public, and helping to organize conferences; 1995-2008.
- Panel participant for the Life Science Research Office of the Federation of American Societies of Experimental Biology's planning group to develop guidelines and procedures for third party review of health and other claims for dietary supplements, 2000.
- Member of the Advisory Board of the *Partnership for the Promotion of Healthy Eating and Active Lifestyles (PPHEAL)* a group whose mission is to use scientific knowledge to promote healthier lifestyles in the areas of diet and activity, 1999 to 2000.
- Member of International Life Science Research Institute's Food Safety and Nutrition Committee, 1997-2000.

- Statistical Consultant to Community Research Initiative on AIDS, 1997.
- Member of the *International Food Information Council's* Expert Committee, 1995 - ~2010.
- Statistical Consultant to *God's Love We Deliver* for a project related to the effects of home nutrition on health and quality of life, 1995.
- Statistical Consultant to the International Life Sciences Institute and the United States Department of Agriculture on an experimental assessment of the effects of *trans*-fatty acid consumption.
- Grant writing and statistical consultant to the Milestone School for Child Development, 1991 to 1995.
- Consultant on research design and statistics to the Crossroads School for Child Development, 1995 to 2000.
- Served on the *Obesity & Health* Task Force on Weight Loss Abuse, 1992-1993.
- Served on Advisory Board for the Betty Jane Rehabilitation Center of Ohio, 1991-1992.

ACADEMIC/SCIENTIFIC (not necessarily an exhaustive listing)

- Member of the board-appointed Committee on Science and Technology Engagement with the Public (CoSTEP) for the American Association for the Advancement of Science, 2014 – 2017, reappointed for second term 2017-2020.
- Technical Expert for a Johns Hopkins University Evidence-based Practice Center project on obesity prevention and control, 2016-2017.
- NIH COBRE External Advisory Committee for the Center for Childhood Obesity Prevention (CCOP) at the University of Arkansas for Medical Sciences.
- Member of the External Advisory Committee for the Mid-Atlantic Nutrition Obesity Research Center (NORC) at University of Maryland, 2012-2014.
- Chaired the First International Advisory Board, Department of Human Nutrition, Faculty of Life Sciences, University of Copenhagen, 2010.
- Member of Data Safety and Monitoring Board (DSMB) for Serena Trial for Dr. Robert Ross at Queens University of Canada – 2010 – 2013.
- Consultant to Dr. Zhao Chen of the University of Arizona on design and analysis of genome wide association studies – 2008 to 2012.
- Consultant to Dr. Catherine Kotz of the University of Minnesota on VA-funded and NIH-funded obesity-related research – 2004 - 2009.
- Consultant to Dr. Nir Barzilai of Albert Einstein College of Medicine on NIH-funded aging- and obesity-related research – 2004 - 2007.
- Consultant to Dr. Anil Malhotra of Long Island Jewish Hospital on antipsychotic-induced weight gain – 2005 - 2007.
- Member of External Advisory Board, Yale/NIDA Neuroproteomics Research Center, 2005 – 2006.

- Ad-hoc Member of the Jackson Laboratory's Board of Scientific Overseers, 2003.
- Member of the External Advisory Committee to the University of Arkansas' NIH-funded Biomedical Research Infrastructure Network, 2001 - 2003.
- Member of the External Advisory Board to the University of Alabama's NIH-funded Clinical Nutrition Research Center, 1999 to 2001.
- Consultant to Dr. Julie Mattison, and formerly Drs. Mark Lane, George Roth, and Donald Ingram of the National Institute on Aging for a study of Caloric Restriction and Longevity among Non-Human primates, 1999 to 2013.
- Consultant to Dr. Richard Weindruch of the University of Wisconsin at Madison on program project grant to evaluate the effects of caloric restriction on health and longevity in non-human primates (rhesus monkeys) and related projects, 1998 to 2012.
- Consultant to Dr. Philippe Froguel of the Pasteur Institute on statistical methods for detecting obesity and diabetes genes, 1999.
- Consultant to Dr. David Watkins of the University of Wisconsin at Madison and now University of Miami on the statistical analysis of data regarding the development of HIV vaccines, 1999 to Present.
- Consultant to Dr. Louis Picker of Oregon Health & Science University on the statistical analysis of data regarding the development of HIV vaccines, 2003 to 2006.
- Consultant/Advisory Board member for Dr. Richard Miller's program project grant "*Genetics of Age-Sensitive Traits In Mice*" at the University of Michigan, Ann Arbor, 2001.
- Statistical consultant to Dr. Robert Ross of Queen's University (Canada) on issues related body composition changes with exercise treatment, 1999-2001.
- Statistical consultant to Dr. Howard Pratt of Indiana University School of Medicine on NIH-funded research regarding the genetics of blood pressure regulation, 2000 – 2005.
- Consultant to the National Institute of Diabetes Digestive and Kidney Disease's research center in Phoenix, Arizona (Drs. Knowler, Tataranni, Ravussin, and Bogardus) on statistical and methodological issues in conducting their genome-wide search for obesity and diabetes genes in Pima Indians. December, 1997 and on general obesity research issues, 2000 - 2005.
- Consultant to Dr. George L. Blackburn of Harvard University on multiple NIH proposals and NIH-funded projects in the 1990s.
- Consultant to Dr. Alan Green of Harvard University on anti-psychotic induced weight gain, 1999 to 2001.
- Consultant to Dr. James Swanson of University of the California at Irvine on Statistical Genetics, 2000.
- Consultant to Drs. Albert J. Stunkard, Myles Faith, and others of the University of Pennsylvania on statistical and obesity related issues, 1996 – 2000, 2003-2004.
- Consultant to Dr. Caryn Lerman of the University of Pennsylvania on statistical aspects of pharmacogenetics, 2003- 2006.
- Consultant to NIH grant R21 DK44434 on "Long-term outcome of obesity treatment in minority women" (Principal investigator - George Blackburn, Harvard Medical School).

- Statistical consultant for numerous grants obtained by investigators at St. Luke's/Roosevelt hospital in the areas of obesity, diabetes, body composition, and AIDS, 1994 - 2006.
- Statistical consultant for doctoral students at Hofstra University, Columbia University, Johns Hopkins University, University of Washington at Seattle, Adelphi University, New York University, The New School for Social Research, & Albert Einstein College of Medicine.
- Consultant to Dr. Tim Spector at St Thomas Hospital, Twin Research & Genetic Epidemiology Unit for Wellcome Trust grant "Whole-genome transcriptomic profiling: A resource for the discovery of expression QTLs associated with common disease", 2007 – ~2009.

LEGAL CONSULTING (not necessarily an exhaustive listing)

- Consultant to The Perry Law Firm, L.L.C on obesity-related litigation, 2006 – 2007.
- Consultant to Lopez, Hodes, Restaino, Milman & Skikos, A Law Corporation, on obesity-related litigation, 2004 - 2009.
- Consultant to Bersenas Jacobsen Chouest Thomson Blackburn LLP on obesity- and statistically-related litigation, 2005-2007.
- Consultant to Maynard, Cooper & Gale, P.C., A Birmingham, Alabama law firm regarding anti-obesity drug litigation, 2003.
- Consultant to law firm of Ulmer & Berne LLP, regarding dietary supplement litigation, 2003 – ~2009.
- Consultant to Lee, Smart, Cook, Martin & Patterson, PS, Inc., a Seattle, Washington law firm, 2001.
- Consultant to Gibson, Dunn & Crutcher LLP, a Los Angeles, California law firm, 2002 - 2006.
- Consultant to Parenti, Falk, Waas, Hernandez & Cortina, Attorneys at Law, regarding obesity-related litigation, 2002.
- Consultant to Paterson, MacDougall, a Toronto, Canada law firm serving both domestic and international clients, regarding obesity related issues, 2000 - 2001.
- Consultant to Wilentz, Goldman, & Spitzer, Attorneys at Law regarding OTC weight-loss product claims litigation, 1999-2008.
- Consultant to McKenna & Cuneo, L.L.P and McKenna Long & Aldridge LLP, Attorneys at Law regarding anti-obesity drug litigation, 1998 to 2006.
- Consultant to Spadoro & Hilson, Attorneys at Law regarding actuarial lifetable estimation for obese decedents, 1998.

OTHER INDUSTRY (not necessarily an exhaustive listing)

- Chair of research grants committee, Dry Bean Health Research Program for the Northarvest Bean Growers Association, 2008 – present.
- Chair of United Soybean Board's research grants committee, 1999 – 2017.

- Chairperson for the Pfizer Visiting Professorships in Obesity Academic Advisory Board, 2009 - 2011.
- Member of the United Soybean Panel's Nutrition Advisory Board, 1996 - 2006.
- Member of Scientific Advisory Board for Kraft Foods, Inc, 2003 – 2012.
- Member of Scientific Advisory Board for McCormick Science Institute, 2007 – 2009.
- Member of Scientific Advisory Board for MediFast, Inc, 2009.
- Member of Scientific Advisory Board for NutriPharma, Inc., 2000 – 2005.
- Member of Scientific Advisory Board for Genome Explorations, Inc., 2003 – 2010.
- Member of Scientific Advisory Board for Vivus, Inc., 2007 – 2011.
- Member of Scientific Advisory Board for Biofortis, Inc., 2016 – present.
- Member of Scientific Advisory Board for Ikea, 2016 - 2018.
- Member of US Obesity Advisory Board for Merck Pharmaceuticals, Inc., 2007 – 2009.
- Member of the Nutritional Advisory Board for Nabisco, Inc., 1994 - 2000.
- Member of the *Wheat Council's* panel of experts, 1998 – 2001.
- Member of Obesity Education Network Editorial Board for Sui Generis Health and Eisai Pharmaceuticals, 2012 – 2014.

RESEARCH INTERESTS and EXPERIENCE

ACTIVE GRANTS & CONTRACTS (not necessarily exhaustive or fully updated– see other support pages for more updated listing)

Allison, D.B. (**principal investigator**) et al. Energetics, Disparities, & Lifespan: A unified hypothesis. R01AG043972. **A Transformative R01** from the National Institutes of Health. 9/2012 - 5/2020. \$8,000,000 (approximate total costs). This grant application addresses evolutionary genetic hypotheses involving obesity, social disparities, and longevity.

Allison, D.B. (**principal investigator**), Fontaine, K. (co-principal investigator), Brown, A. (co-principal investigator). Strengthening Causal Inference in Behavioral Obesity Research. Period: 7/01/20 – 6/30/24. Total amount: \$848,018.

Allison, D.B. (**principal investigator**). Post-Doc Support. To train a post-doc in studying rigor, reproducibility, and transparency in science. Funded by the Gordon and Betty Moore Foundation. Period: 9/1/2019 – 8/31/21. Total amount: \$177,500.

Allison, D.B. (**principal investigator**). Rigor, Reproducibility, and Transparency (RRT) in the Interdisciplinary Interface. A grant to host a think-tank on the promotion of RRT in science. Funded by the Sloan Foundation. Period: 4/1/2019 – 3/31/2020. Total amount: \$19,960.

Allison, D. B. (**principal investigator**) et al. Obesity and Longevity Across Generations. R01AG057703. An R01 grant funded by the National Institute on Aging (NIH). Period: 09/01/2018 – 05/31/2022. Annual direct costs: \$175,000. Purpose: Understanding how and why obesity is associated with reduced longevity and who is most vulnerable to its health risks.

Allison, D. B. (**principal investigator**) & Fontaine, K. R. (principal investigator – multi-PI grant). Strengthening Causal Inference in Behavioral Obesity Research (R25HL124208). A national short funded by the National Heart Lung and Blood Institute (NHLBI) of NIH. Project Period: 07/01/14 - 08/30/2020. Total costs all 5 years: ~\$1,000,000.

Allison, D.B. (**subcontract principal investigator**) Nathan Shock Centers Coordinating Center (NSC3) Funded by the National Institutes of Health. U24AG056053. Period 04/01/17 – 03/31/20. Total costs: \$1,310,992.

Allison, D.B. (**subcontract principal investigator**). Xun, P. (co-principal investigator). Daily Self-Weighing for Obesity Management in Primary Care. Funded by the National Institutes of Health. R01DK118939. Period: 6/15/2019 – 03/31/2024. Total amount: \$108,975.

Austad, S., Allison, D. B. (**Associate Director/Co-Investigator**), et al. Comparative Energetics and Aging. A P30 Nathan Shock Center grant for the study of the basic biology of aging. Funded by the National Institute on Aging (NIA/NIH). P30AG050886. Total annual costs: \$344,827. Project Period: 07/15/2015 – 06/30/2020.

Brown, A.W. & Allison, D.B. (**co-investigator**). Moving beyond single analyses for more rigorous inferences about beef intake and cardiovascular health. Funded by the National Cattlemen's Beef Association. Period: 10/1/19 – 9/31/21. Total amount: \$74,365.

Ludwig, D. (joint PI) Allison, D. B. (**joint-PI**). Macronutrients and Body Fat Accumulation: A Multicenter Mechanistic Feeding Study. Funded by the Laura & John Arnold Foundation. Period: 9/01/17 – 08/31/21. Total amount: >\$12,000,000.

Smith, D.L. (joint-PI) Allison, D.B. (**joint-PI**) Potato Consumption and Energy Balance: A Randomized, Controlled Clinical Trial. Funded by the Alliance for Potato Research & Education. Period: 7/01/17 – 3/11/20. Total amount: \$175,000.

Stahl, C.Allison, D. B. (**co-investigator**). Improving Swine Growth via Nutritional Programming of Stem Cell Populations. Funded by the United States Department of Agriculture (USDA). Project Period: 03/1/16 - 9/30/19. Total costs \$499,970.

Stahl, C.Allison, D. B. (**co-investigator**). R01HD092304. A porcine model for investigating the role of an insulin signaling regulator in development and disease. An R01 grant funded by the National Institutes of Health (NICHD). Period: 9/1/2018 – 8/31/2023. Annual costs: \$304,633. Purpose: To conduct and interpret analysis from RNA sequencing experiments to investigate the role of an insulin signaling regulator in development and disease.

Wanagat, J. (corresponding PI) ...Allison, D. B. (**joint-PI**). Mitochondrial DNA Deletion Mutations: Biomarkers of Aging. Funded by the National Institute on Aging (NIH). R56AG060880. Period: 09/30/2018 -08/31/2019. Total amount: \$441,047.

GRANTS with CONSULTING ROLES

Boyer, B., Tiwari, H. K. ,... & Allison, D. B. (**originally co-investigator, now consultant**). Epigenome modification by a dietary pattern rich in polyunsaturated fatty acids. Funded by the NIDDK/NIH: R01DK104347. Project Period: 09/20/2016 – 07/31/2020. Total costs: \$2,568,000.

Fouad, M., Garvey, W. T., & Allison, D. B. (**originally co-investigator, now consultant**). UAB STEP-UP: Promoting Diversity through Mentored Research Experiences (UAB STEP-UP). R25DK113652 funded by the National Institutes of Health (NIDDK). 04/01/17 – 03/31/22. \$255,000.

GRANT APPLICATIONS AWAITING FINAL ADMINISTRATIVE APPROVAL FOR FUNDING (not necessarily exhaustive or fully updated– see other support pages for more updated listing)

Allison, D.B., (**principal investigator**), Thomas, D. (co-principal investigator), Brown, A. (co-principal investigator). The Mathematical Sciences in Obesity Research. Period: 4/01/20 – 3/31/25. Total amount: \$540,000.

GRANT APPLICATIONS in REVIEW (not necessarily exhaustive or fully updated– see other support pages for more updated listing)

Allison, D.B. (principal investigator). Inculcating self-identify as a scientist *cum* truth-seeker for promoting research rigor: Feasibility testing of an educational intervention. Funded by the Spencer Foundation. Period: 8/01/20 – 7/31/22. Total amount: \$24,814.

Allison, D.B. (**subcontract principal investigator**). Center for Statistical Network Genetics. Period: 4/01/20 – 3/31/25. Total amount: \$1,436,233.

Allison, D.B. (**subcontract co-principal investigator**) and Harezlak, J. Platform for the Integration and Analysis of Wearable Sensor Data. Funded by NIH/InfotechSoft.Period: 4/01/20 – 11/30/22. Total amount: \$85,710.

Allison, D.B. (**principal investigator**). Toward a more rigorous and informative nutritional epidemiology: the rational space between dismissal and defense of the status quo. Funded by the National Cattlemen's Beef Association. Period: 1/1/20 – 6/30/20. Total amount: \$25,200.

Allison, D.B. (**principal investigator**). Metascience Grant 2019: Pilot Testing Efficient, High-Throughput Methods for Identifying Features of Rigor in Published Research Papers. Submitted to the Fetzer Franklin Fund. Period: 11/01/19 – 8/31/20. Total amount: \$17,822.

Chusyd, D., Allison, D.B. (**co-investigator**). Anthropogenic related stress on reproduction in African forest elephants. Period: 2/01/20 – 1/31/22. Total amount: \$13,030.

Jayawardene, W.P., Johnston, J.D., Huber, L.L., Frey, G.C., Dickinson, S.L., & Allison, D.B. (**co-investigator**). Tracking Together: Human and Canine Activity Monitors for Longer, Healthier Lives. Submitted to Mars, Inc. Period: 1/01/20 – 6/30/21. Total amount: \$25,880.

PAST GRANTS (not necessarily an exhaustive listing)

Affuso, O.T.....Allison, D.B. (**co-investigator**). A photographic method for human body composition assessment. An R01 funded by the National Institutes of Health. 6/01/2012 – 4/30/2017. Period: 5 years. \$2,388,439 (total costs)

Allison, D. B. (**principal investigator**) & Thomas, D. M. (principal investigator – multi-PI grant). The Mathematical Sciences in Obesity Research (R25DK099080). A national short funded by the National Institute of Diabetes, Digestive, and Kidney Disease of NIH. Total costs all 5 years: \$543,995. Period: 07/01/13 – 6/30/18

Allison, D. B. et al. (**principal investigator**), et al. Supplement to UAB Nutrition Obesity Research Center to Identify aspects of the reporting and conduct of murine obesity-related research that can use improvement, and provide ways to improve at least one aspect of such research: statistical analysis. P30DK056336. Funded by the National Institutes of Diabetes Digestive and Kidney Diseases. Budget Period: 06/01/2016 – 05/31/2018. Total costs, \$100,000.

Allison, D.B. (**principal investigator**) Science Dialogue Mapping of Knowledge and Knowledge Gaps Related to the Effects of Dairy Intake on Human Health. Funded by the National Dairy Council. Period: 6/01/16 – 3/31/18. Total amount: \$151,376.

Allison, D. B. (**principal investigator**) & Brown, A. W. (principal investigator – multi-PI grant). Beyond textbook, yet simple, statistical tools for reproducible animal research (R25GM116167). A grant to develop training modules and educational materials that address commonly encountered but unexpectedly complex statistical and research design issues for the NIH. Funded by the National Institute of General Medical Sciences (NIGMS) of NIH. Project Period: 9/10/15 – 8/31/17. Year 1 direct costs \$73,505.

Allison, D. B. (**principal investigator**). Dialogue mapping the health effects of dairy. Funded by Dairy Management Inc. Project Period: 06/1/16 - 06/01/17. Total costs: \$250,000.

Allison, D. B. (**co-principal investigator**) & Michael, M. (co-principal investigator), et al. Grand Rounds program inspired by the Moments in Leadership: Case Studies in Public Health Policy and Practice. Funded by Pfizer Pharmaceuticals. Total Amount: \$15,000 (total costs). Period: 1/1/09 to 12/31/09.

Allison, D. B. (**principal investigator**) & Beasley, T. M. *Statistical Support Contract To The National Institute of Aging's Study On Caloric Restriction And Aging In Non-Human Primates*. Funded by the National Institute on Aging. Period: 6/1/99 – 9/25/14 Current Annual Amount: **\$44,000** (annual direct costs).

Allison, D. B. (**principal investigator**) & Fontaine, K. R. *Obesity & Headache in Women*. Research funding provided by Ortho-McNeil Pharmaceuticals. Total Amount: **\$38,000**. Period: 6/1/04 – 5/31/06.

Allison, D. B. (**principal investigator**) & Neale, M. C. *Robustness of Maximum Likelihood-Based Variance Components Tests of Genetic Linkage For Quantitative Traits When Data Are Not Normally*

Distributed. A grant funded by the Pittsburgh Supercomputing Center for supercomputing time (no dollar amount requested) through NIH grant 2P41RR06009-110234. Period: 3/1/98 – 7/31/05.

Allison, D. B. (**principal investigator**) & Tiwari, H. T. GWA Test-Driver: A Do-it-yourself genome-wide association study planner. Funded by the UAB Health Services Foundation General Endowment Fund. Total Amount: **\$236,344**. Period: 3/1/07 – 2/28/08

Allison, D. B. (**principal investigator**) & Vasselli, J. R. Development & Evaluation Of A Rodent Model of Anti-Psychotic Induced Weight Gain. Funded by Pfizer Central Research. Total Amount: **\$49,623** (direct costs). Period: 1/1/00 – 12/31/00.

Allison, D. B. (**principal investigator**) and Van Itallie, T. B. *Development of an Obesity Data Book Proposal*. A contract from the North American Association for the Study of Obesity. Period: 4/1/97-12/31/01. Total Amount: **\$60,000**.

Allison, D. B. (**principal investigator**) et al. *A method to increase activity in obese children*. An R03 proposal funded by the National Institute of Diabetes, Digestive and Kidney Diseases. Period: 3/1/97 – 3/1/99. Total Amount: **\$100,000** (direct costs).

Allison, D. B. (**principal investigator**) et al. *Allelic variants of murine-model obesity genes in massively obese humans*. A grant from Millennium Pharmaceuticals, Inc. Period: 5/31/96-11/31/96. Total Amount: **\$17,500** (direct costs).

Allison, D. B. (**principal investigator**) et al. *Baseline levels of obesity and weight gain among patients taking antipsychotic medications: A comprehensive quantitative literature synthesis*. A grant from Pfizer, Inc. Period: 12/1/96 - 6/1/96. Total Amount: **\$15,000** (direct costs).

Allison, D. B. (**principal investigator**) et al. *Does Weight Loss Reduce Mortality Rate among Obese Rats?* Funded by the New York State Department of Health's Diabetes Bridge Grant Program. Period: 11/1/98 – 3/1/99. Total Amount: **\$35,000** (direct costs).

Allison, D. B. (**principal investigator**) et al. *Effects of Intentional Weight Loss on Mortality Rate*. R01DK067487 funded by the NIDDK/NIH. Period: 01-JAN-2005 to 31-DEC-2008. Amount: \$725,000 (total direct costs).

Allison, D. B. (**principal investigator**) et al. *Genetic Admixture and Resting Energy Expenditure among African American Women*. Funded by the W.R.I.S.C. foundation of Knoll Pharmaceuticals. Period: 3/1/99 – 3/1/00. Total Amount: **\$85,000** (direct plus indirect costs).

Allison, D. B. (**principal investigator**) et al. UAB Pre-Doctoral Training Program in Obesity Related Research. A T32 pre-doctoral training grant from the National Heart, Lung, and Blood Institute. Total Amount: **\$1,070,567** (total costs). T32HL105349.

Allison, D. B. (**principal investigator**) Heymsfield, S. B., Babbitt, R. L., & Heshka, S. *An Inquiry into the Causes and Measurement of Adiposity Among Persons With Down Syndrome*. Funded by The International Resource Center for Down Syndrome. Period: 3/93-3/94. Total Amount: **\$3,408**.

Allison, D. B. (**principal investigator**), & Brown, A. W. United Soybean Board. Evaluation of a Philanthropic Grant Incentive Program. Project Period: 06/30/16 - 06/29/17. Total costs: \$10,000.

Allison, D. B. (**principal investigator**), & Shikany, J. Randomized Controlled Trial of MediFast Program for Weight Loss. Funded by MediFast. Total Amount: ~**\$400,000** (total costs). Period: 09/01/10 - 08/31/12.

Allison, D. B. (**principal investigator**), Chua, S., Fernandez, J., Vasselli, J. R., Casey, D. *Role of the 5HT_{2c} receptor in Antipsychotic Induced Weight Gain*. An Independent Investigator Award funded by NARSAD. Total Amount: **\$83,000** (direct costs). Period: 9/30/00 to 9/29/04.

Allison, D. B. (**principal investigator**), Development of Standardized Measurement Systems for Rating and Ranking the Fidelity of Research Reporting in the Nutrition and Obesity Literature. Funded by Coca-Cola Company. Total Amount: 150,000 (total costs). Period: 11/28/11-12/31/11.

- Allison, D. B. (**principal investigator**), Eckel, R., Pi-Sunyer, F. X., Fidler, J., & Ravussin, E. *Advancing the Genetics of Obesity: Strategies & Methods*. An R13 (conference grant) funded by the National Institute of Diabetes, Digestive and Kidney Diseases and the Office of Research on Women's Health and supported by numerous industrial sponsors. Total Amount: **\$110,000**. Conference held July, 1997.
- Allison, D. B. (**principal investigator**), et al. Adipogenic and Metabolic Effects of Antipsychotic Drugs. Funded by the National Institute of Mental Health and National Institute of Diabetes Digestive and Kidney Disease (R13MH086166). Total Amount: \$55,000 (total costs). Period: 8/1/10 – 7/31/11.
- Allison, D. B. (**principal investigator**), et al. *Body Composition & Mortality Pooling Project*. An R21 funded by the National Institute of Aging. Total Amount: **\$100,000** (direct costs – [plus **\$25,000** contributed by industrial sponsors]). Period: 9/1/99 – 8/30/01.
- Allison, D. B. (**principal investigator**), et al. *Body mass vs. composition and the U-shaped mortality curve*. A supplement to (R01DK51716) *Quantitative Synthesis of Clinical Obesity Research* funded by the National Institute of Diabetes, Digestive and Kidney Diseases. Total Amount: **\$27,000** (direct costs). Period: 1/1/99 – 12/31/00.
- Allison, D. B. (**principal investigator**), et al. Body Weight, Adiposity, Energetics and Longevity. Funded by the National Institute on Aging (1R13AG030317). Total Amount: **~\$35,000** (total costs). 01/15/07 - 1/14/08 Period: 1 year.
- Allison, D. B. (**principal investigator**), et al. *Does Weight Loss Reduce Mortality Rate among Obese Rats?* An R01 grant funded by the National Institutes of Health. Total Amount: **\$700,000** (direct costs). Period 1/15/00 – 1/31/04.
- Allison, D. B. (**principal investigator**), et al. Genome-wide Structured Association Testing & Regional Admixture Mapping. R01GM077490 funded by the National Institutes of Health. Total Amount: \$1,250,000 (total costs). Period: 01-SEP-2007 to 31-AUG-2011.
- Allison, D. B. (principal investigator), et al. Is Dietary Fat Fattening: A Comprehensive Synthesis. Funded by Frito-Lay North America. Total Amount: **~\$149,000** (total costs). Period: 2 years.
- Allison, D. B. (**principal investigator**), et al. Novel Antipsychotics and Glucose Tolerance by the Bergman Minimal Model. Funded by Pfizer Pharmaceuticals. Total Amount: **\$200,000** (direct costs). Period: 1/15/00-1/14/01.
- Allison, D. B. (**principal investigator**), et al. Obesity & Mortality. R01DK076771 funded by the National Institute of Diabetes Digestive & Kidney Diseases, National Institutes of Health. Total Amount: **~\$928,878** (total costs). Period: 15-AUG-2007 to 30-JUN-2010.
- Allison, D. B. (**principal investigator**), et al. *Quantitative Synthesis of Clinical Obesity Research*. An R01 grant funded by the National Institute of Diabetes, Digestive and Kidney Diseases. Total Amount: **\$347,171** (direct costs). Period: 6/1/96 – 6/1/99.
- Allison, D. B. (**principal investigator**), et al. Randomized Controlled Trial of Chewing Gum for Weight Loss. Funded by William Wrigley, Jr. Company. Total Amount: **~\$412,034** (total costs). Period: 06/10/09 -06/15/2011.
- Allison, D. B. (**principal investigator**), et al. Short Course on Statistical Genetics and Statistical Genomics. Funded by the National Science Foundation. Period: 2 years. Amount: **~\$300,000** (total costs). Period: 10/01/07 – 09/30/09
- Allison, D. B. (**principal investigator**), et al. *Statistical Genetics for Obesity & Nutrition Researchers*. R01DK056366 An R01/R56 grant funded by the National Institutes of Health. Total Amount: **\$425,000** (direct costs). Period: 6/1/00 to 6/30/08.
- Allison, D. B. (principal investigator), et al. UAB Doctoral Training Grants in Obesity and Nutrition Research. Funded by Kraft Foods North America, Inc. Total Amount: **~\$90,000** (total costs). Period: Renewed annually, began in 2007.

- Allison, D. B. (**principal investigator**), et al. UAB OBESITY TRAINING PROGRAM (T32DK062710). A post-doctoral training grant funded by the National Institute of Diabetes, Digestive, and Kidney Disease. Total Annual Amount: ~**\$150,000** (total costs).
- Allison, D. B. (**principal investigator**), et al. UAB STATISTICAL GENETICS POST-DOCTORAL TRAINING PROGRAM. A T32HL079888 post-doctoral training grant funded by the National Heart, Lung, and Blood Institute. Total Annual Amount: ~**\$350,000** (total costs). Period: 04/15/03 - 03/31/11.
- Allison, D. B. (**principal investigator**), Fontaine, K. R., & Van Itallie, T. B. How many deaths are attributable to obesity in the United States? A grant-in-aid from the Centers for Disease Control and Prevention. Period: Jan 1, 1999 to June 30, 1999. Total Amount: **\$10,000** (direct costs).
- Allison, D. B. (**principal investigator**), Garvey, W.T., et al. *UAB Obesity Training Program*. A T32DK062710 post-doctoral training grant funded by the National Institute of Diabetes Digestive & Kidney Diseases, National Institutes of Health. Total Amount: **\$1,095,665** (total costs). Period: 07/01/04 - 07/20/09.
- Allison, D. B. (**principal investigator**), Heshka, S., & Heymsfield, S. B. *A Randomized Placebo-Controlled Clinical Trial of an Auricular Acu-Pressure Device for Weight Loss*. A grant from Original Marketing, Inc. Period: 11/93 - 11/94. Total Amount: **\$75,000**.
- Allison, D. B. (**principal investigator**), Heshka, S., Alfonso, V. C., & Heymsfield, S. B. *Assortative Mating for Relative Weight: Genetic and Social Implications*. A grant from the Henry A. Murray Research Center of Radcliffe College. Period: 4/93-4/94. Total Amount: **\$4,860**
- Allison, D. B. (**principal investigator**), Heymsfield, S. B., & Heshka, S. A Randomized Controlled Clinical Trial of A Novel Soy-Based Meal Replacement Formula for Weight Loss Among Obese Individuals. Funded by *NutriPharma*. Total Amount: **\$170,000** (total costs). Period: 3/1/00 – 3/1/01.
- Allison, D. B. (**principal investigator**), Heymsfield, S. B., & Heshka, S. *A Twin Study of the Genetic Covariation Between Adiposity and Cardiovascular Disease Risk*. A grant from the Twinsday Festival Committee. Total Amount: **\$1,000**.
- Allison, D. B. (**principal investigator**), Heymsfield, S.B., & Pi-Sunyer, F.X. *The genetics of resting metabolic rate in relation to adiposity: A twin study*. A grant of 500 bed days as part of a General Clinical Research Center (GCRC) grant from the NIH through Columbia University College of Physicians Surgeons.
- Allison, D. B. (**principal investigator**), Laying the Foundation for the Alabama Obesity Institute Funded by the Alabama Department of Economic and Community Affairs. Total Annual Amount: ~**170,025** (total costs). Period 03/01/10 – 08/31/13 (NCE)
- Allison, D. B. (**principal investigator**), Nagy, T., Fernandez, J., & Casey, D. Rodent models of anti-psychotic induced weight gain: pharmacogenetics & mechanisms of action. A proposal funded by Eli-Lilly & Co. Total Amount: **\$142,520** (direct costs).
- Allison, D. B. (**principal investigator**), Page, G., Barnes, S., et al. *Design and Analysis of Microarray Gene Expression Studies in Plants: Toward Sound Statistical Procedures*. A proposal funded by the National Science Foundation. Total Amount: **\$2,200,000** (approximate total costs). Period: 10/1/02 – 9/30/06.
- Allison, D. B. (**principal investigator**), Page, G., Barnes, S., Higgins, N. P., & Kimberly, R. *Microarray Data Analysis Clearinghouse*. An award funded by the University of Alabama at Birmingham's Health Service Foundation General Endowment Fund. Total Amount: **\$319,000** (direct costs). Period: 3/1/02 – 2/28/04.
- Allison, D. B. (**principal investigator**), Tiwari, H., Zhang, K., Yi, N., Redden, D. T., George, V., Beasley, T. M. *Linkage & Linkage Disequilibrium Data Analysis Clearinghouse*. An award funded by the University of Alabama at Birmingham's Health Service Foundation General Endowment Fund. Total Amount: **\$236,583** (direct costs). Period: 3/1/04 – 2/28/06.

- Allison, D. B. (**principal investigator**), Tiwari, HK., et al. *UAB Statistical Genetics Post-Doctoral Training Program*. A T32HL072757 proposal funded by the National Heart, Lung and Blood Institute, National Institutes of Health. Total Amount: **\$869,104** (total direct costs). Period: 15-APR-2003 - 31-MAR-2008.
- Allison, D. B. (**principal investigator**). *Genetics of NIDDM, Obesity and Related Risk Factors Among Black Women*. A Career Development Award from the American Diabetes Association. Period: 1/1/94-12/31/96. Total direct costs: **\$225,000** [Award returned on 9/1/94 upon receipt on FIRST award from the National Institutes of Health].
- Allison, D. B. (**principal investigator**). *Genetics of Obesity and Related Risk Factors Among Black Women*. A FIRST Award from the National Institute of Diabetes, Digestive and Kidney Diseases. Period: 9/1/94-8/31/99. Total Amount: **\$350,000** (direct costs).
- Allison, D. B. (**principal investigator**). *Genetics of Obesity and Related Risks Among Black Americans*. An Investigatorship Award offered by the New York City Affiliate of the American Heart Association. Total direct costs: **\$90,000**. Award returned due to receipt of overlapping award from American Diabetes Association.
- Allison, D. B. (**principal investigator**). *Meta-analysis of the effects of anti-psychotic medication on weight gain*. A grant-in-aid from Pfizer Central Research. Period: 3/1/97-3/1/98. Total Amount: **\$30,000**.
- Allison, D. B. (**principal investigator**). *Race and The Heritability of Obesity*. A pilot and feasibility grant from the Executive Committee of the Obesity Research Center. Period: 1/1/93-12/31/93. Total Amount: **\$15,000**. Renewal funded 2/1/94 to 1/31/95. Amount: **\$8,750**.
- Allison, D. B. (**principal investigator**). *An obesity cost model*. A contract from Wyeth-Ayerst. Period: 1/1/97-9/1/97. Total Amount: **\$11,000**.
- Allison, D. B. (**principal investigator**). *Design, Analysis, & Interpretation of RCTs in Obesity*. Funded by the National Institutes of Health (R13DK077555). Total Amount: **\$25,000**. Period: 11/01/06 - 10/31/07.
- Allison, D. B. (**principal investigator**). Development, Evaluation, & Dissemination of Methods for the Analysis of Gene Expression by Microarrays. A Research Coordination Network proposal funded by the National Science Foundation. Period: 3/12/01-2/28/07. Total Amount: **\$476,000** (direct costs).
- Allison, D. B. (**principal investigator**). *Genetics of Obesity and Related Risk Factors Among Black Women*. R29DK047256 A supplement to a FIRST Award from the National Institutes of Health (NIDDK) to support Melissa Kezis, an undergraduate student with a disability. Period: 6/1/95-8/31/96. Total Amount: **\$14,547** (direct costs).
- Allison, D. B. (**principal investigator**). *Genetics of Obesity and Related Risk Factors Among Black Women*. A minority supplement to a FIRST Award from the National Institutes of Health (NIDDK) to support Elizabeth Manibay, a minority graduate student. Period: 6/10/96-8/31/96. Total Amount: **\$7,000** (direct costs).
- Allison, D. B. (**Principal Investigator**). Methodology for combining multiple genome scan datasets with application to human obesity. A supplemental proposal submitted to the National Institutes of Health. Total Amount: **\$40,968** (direct costs). Period: 10/01/01 to 9/30/02.
- Allison, D. B. (**principal investigator**). Recipient of the first Organizational Behavior Management Network Special Projects Award, May, 1990, for an experimental study: *Relative Effectiveness and Cost-Effectiveness of Cooperative, Competitive, and Independent Monetary Incentive Systems for Improving Staff Performance*. Total Amount: **\$1,500**
- Allison, D. B. (**principal investigator**). *Self-Esteem and Obesity Among African-Americans*. A grant from the Henry A. Murray Research Center at Radcliffe College. Period: 1/1/96-12/31/96. Total Amount: **\$4,860**.

Allison, D. B. (**principal investigator**). Study of HEAL childhood obesity prevention program. Funded by HEAL Alabama. Project Period: 06/1/16 - 06/01/17. Total costs: \$10,000.

Allison, D. B. (**principal investigator**). *The genetics of human energy regulation in relation to obesity*. A *Future Leaders Award* from the International Life Sciences Institute (ILSI). Period: 1/1/95-12/31/96. Total Amount: **\$30,000** (direct costs).

Allison, D. B. (**principal investigator**). *Weight Gain & Compliance with Anti-Psychotic Medication*. Funded by Pfizer Central Research. Period: 3/1/99 – 3/1/00. Total Amount: **\$33,000** (direct costs).

Allison, D. B. (**principal-investigator**), et al. Body Composition, Energetics, and Longevity. R01AG033682. An R01 grant funded by the National Institutes of Health. Total Amount: \$2,661,398 (total costs). Period: 2/15/10 – 2/14/16.

Allison, D. B. (**principal-investigator**), et al. Dell High performance computing Cluster and Associated Hitachi terabyte data storage. An S10 (shared instrumentation) proposal funded by the National Institutes of Health. Total Amount: \$500,000 (total costs). Period: 7/26/10 – 7/25/11.

Allison, D. B. (**principal-investigator**), et al. Design issues in Obesity RCTs Building an Evidence Base. R01DK078826 An R01 proposal submitted to the National Institute of Diabetes Digestive & Kidney Diseases, National Institutes of Health (R01DK078826). Total Amount: \$797,500 (total costs). 03/01/09 - 02/28/13.

Allison, D. B. Awarded **\$1000** grant from the National Science Foundation to attend NATO Advanced Study Institute #115/91 on "*Methodology for Genetic Studies of Twins and Families*," September, 1991, Leuven, Belgium.

Allison, D. B. et al. (**principal investigator**, director), et al. UAB Nutrition Obesity Research Center, P30DK056336. Funded by the National Institutes of Diabetes Digestive and Kidney Diseases. Approximate yearly direct costs: **\$852,858**. Period: 01/01/00 - 06/30/17.

Allison, D. B. Sub-contract to *Johns Hopkins Clinical Trial of Olestra as an Aid to Weight Maintenance* to provide statistical support. Funded by the Proctor & Gamble Company. Period: July 1, 1999 to June 30, 2002. Total Amount: **\$16,900** (direct costs).

Allison, D.B. (**principal investigator**) & Crowe, K. Functional and Dysfunctional Foods: Issues in Evaluating Bioactive Food Component. R13CA168347 proposal submitted to the National Institutes of Health. 4/01/12 – 3/31/13. Period: 1 year. \$ 48,336 (total costs)

Allison, D.B. (**principal investigator**) et al. *Statistical studies of the effect of excluding early deaths when analyzing prospective cohort studies in the presence of confounding by occult disease*. A research contract from the Centers for Disease Control and Prevention. Period: 6/1/96-5/31/97. Total Amount: **\$8,500** (direct costs).

Allison, D.B. et al. (principal investigator [titular]), Dhurandhar, E. (Co-I; functionally PI). The role of Protein in regulating ad libitum energy intake in humans. Funded by the Egg Nutrition Research Center (ENRC). Approximate yearly direct costs: \$126,010. Period: 12/01/14 – 11/30/16.

Amos, C. I., Allison, D. B. (**co-investigator**), et al. *Linkage And Linkage Disequilibrium Methods For Quantitative Traits* (R01ES09912). A proposal funded by the National Institute of Environmental Health Sciences. Period: 1/1/99 – 12/31/02. Total Amount: **\$900,000** (direct costs).

Amos, C. I., Allison, D. B. (**co-investigator**), et al. *Positional Gene Identification of Complex Traits* (R01ES09912). Funded by the National Institute of Environmental Health Sciences. Period: 7/1/02 – 6/30/07. Total Amount: \$2,310,925 (direct costs).

Atkinson, R. L., Dhurandhar, N., Allison, D. B., et al. (**co-principal investigator**). *Adenoviruses and human obesity – longitudinal and twin studies*. An R01 funded by the National Institute of Diabetes, Digestive, and Kidney Diseases. Period: 01-SEP-2001 - 2004. Total Amount: **\$1,805,817** (direct costs).

- Austad, S., Allison, D. B. (**Director of Supplement**), et al. Sex Differences Supplement to Comparative Energetics and Aging. A P30 Nathan Shock Center grant for the study of the basic biology of aging. Funded by the National Institute on Aging (NIA/NIH). P30AG050886. Total costs: \$99,904. Project Period: 6/01/16 – 6/30/18. Sub-Project ID: 5972
- Barnes, S., & Allison, D. B. (**co-investigator**). Polyphenols & Nutrients: Genes, Proteins and Cancer Risk. A P20 proposal submitted to the National Cancer Institute. Total Amount: **\$69,323** (direct costs). Period: 09/28/01-03/27/02.
- Barnes, S....Allison, D. B. (**co-investigator; PI of 1 of 4 projects**). Center for Gene-Nutrient Interaction (CNGI). A center grant proposal funded by the National Cancer Institute U54CA100949. Total costs: **\$13,809,062** (Total costs). Period: 09/01/03-08/31/09.
- Baskin, M....Allison, D. B. (**co-investigator**). Impact of Fruit and Vegetable Cost on Obesity in Children and Parents. Funded by an anonymous private philanthropist. Total costs: **~\$50,000** (Total costs). Period: 05/01/04-6/30/07.
- Boyer, B.... Allison, D. B. (**co-investigator**), et al. Genetics of Obesity in Yup'ik Eskimos. An R01 funded by the National Institutes of Health R01DK074842. Total Amount: \$2,306,134 (total costs). Period: 09/13/07 -08/31/12
- Brown, A.W. (principal investigator) & Allison, D.B. (**co-investigator**). Science Dialogue Mapping of Knowledge and Knowledge Gaps Related to the Effects of Dairy Intake on Human Health. Funded by Dairy Management Inc. (DMI). Budget period: 11/1/20018 – 6/30/2019. Total costs: \$65,313
- Cheung, K. , & Allison, D. B. (consultant). Exploring approaches for microarray databases that enable flexible design and integrative analysis. Funded by the National Science Foundation. Period: 11/01/02 – 10/31/04.
- Collaborator in EPS-0814103 RII: Enhancing Alabama's Research Capacity in Nano/Bio Science and Sensors NSF EPSCoR Research Infrastructure Improvement Grant Program (RII). September 1, 2008 - August 31, 2013. Award announcement: <http://www.nsf.gov/awardsearch/showAward.do?AwardNumber=0814103>. Center for Environmental Cellular Signal Transduction (CECST) The NSF RII-3 is a statewide effort designed to enhance the competitiveness of the state of Alabama in research and research-based education, increase the competitiveness of Alabama researchers, and share resources and strengths. Alabama website: <http://alepscor.ua.edu/centers.html>.
- Cox, J.& Allison, D. B. (**co-investigator**). BOLD Prediction of Success in a Weight Loss Program. An R1 funded by the National Institute of Diabetes Digestive & Kidney Diseases, National Institutes of Health (DK075685). Total amount **\$398,750** (total costs). Period: 7/01/07 – 06/30/09.
- Cui, X, Zhu, D., & Allison, D. B. Allison, D. B. (**co-investigator**). Statistical Analyses for Next Generation Sequencing. Funded by the National Institute of Human Genome Research (R13 HG005792). Total Amount: **~\$35,000** (total costs). Period: 1/21/11-12/31/11.
- Cutter, G., & Allison, D. B. (**co-principal investigator**). UAB PRE AND POST-DOCTORAL TRAINING PROGRAM IN BIOSTATISTICS (T32NS054584). A pre- and post-doctoral training grant funded by the National Institute of Neurological Disorders and Stroke. Total Annual Amount: **~\$178,000** (total annual costs). Period: 07/01/07 – 06/30/12.
- DeLuca, M....Allison, D. B. (**co-investigator**). QTL mapping age-related changes in lipid storage. Funded by the National Heart, Lung & Blood Institute (5R01HL80812-3). Total costs: **~\$1,000,000** (Total costs). Period: 9/27/04 - 8/31/08.
- Deng, H..... Allison, D. B. (**co-investigator**), et al. Identifying Osteoporosis Risk Genes via Genomic Convergence. P50AR055081 funded by the National Institutes of Health. Total Amount: **\$82,752** (total costs of UAB subcontract). Period: 07-SEP-2007 to 31-JUL-2012.

- Din-Dzietham, R. Allison, D. B. (**co-investigator**). Cardiovascular Disease Preventive Intervention Program. 5UH1HL073461 funded by the National Institutes of Health. Total Amount: \$19,573 (total costs). Period: 05/15/2003 – 11/30/2010.
- Emanuel, P...Allison, D. B. (**co-investigator**). Comprehensive Cancer Center Core Support Grant. A P30 grant funded by the National Institutes of Health. Period. 04/01/05-03/31/10. Total amount: \$37,597,934. [Removed from grant after 1st year due to budget cuts].
- Faith, M. S., Allison, D. B. (**co-investigator**), Heo, M., & Heymsfield, S. B. Maternal control feeding style: effects on childhood obesity. A funded by the ATPM/CDC/ATSDR cooperative program. Period: 9/1/99 – 8/31/00. Total Amount: **\$90,000** (direct costs).
- Faith, M. S.,.... & Allison, D. B. (**consultant**). *Food Substitution For Child Nutrition/Obesity Prevention*. An R01 proposal funded by the National Institutes of Health (R01HD042169). Period: 09/15/03 - 07/31/08.
- Flint, J. & Allison, D. B. (**collaborator**). Methods for gene mapping in complex traits: Obesity and neurosis. An International Collaboration Grant funded by the Wellcome Trust. Period: 6/1/99 – 5/31/02. Total Amount: **16,000 British Pounds**.
- Flint, J., Goodwin, G. M., Fairburn, C. G., & Allison, D. B. (**collaborator**). Mapping Genes for Anxiety and Depression. A grant from the Wellcome Trust. Total Amount: **600,000 British Pounds**.
- Fontaine, K..... Allison, D. B. (**co-investigator**), et al. Obesity and Mortality among Hispanics. R21DK077959 funded by the National Institutes of Health. Period: 01-JUL-2008 to 30-JUN-2010.
- Gallagher, D. [Formerly Heymsfield, S. B].....Allison, D. B. (**co-investigator/switched to consultant**). *BODY COMPOSITION: METHODS, MODEL & CLINICAL APPLICATION*. A P01 proposal funded by the National Institutes of Health. Total Amount: **\$5,000,000** (direct costs). Period: 12-JUN-2001 - 30-APR-2006.
- Gao, G..... Allison, D. B. (**co-investigator**), et al. Haplotyping and QTL mapping in pedigrees with missing data. An R01 funded by the National Institutes of Health. Total Amount: **\$774,187** (total costs). Period: 5 years.
- Garvey, W.T.... & Allison, D.B. (co-investigator & director of training program). UAB Strategically Focused Obesity Center (SFOC) Intergenerational Transmission of Obesity. Funded by the American Heart Association 17SFRN33570038. Period 04/01/17 – 03/31/21. Total costs: \$3,709,200.
- Heimbürger D. C.Allison, D. B. (**co-investigator/switched to consultant**). Reimbursement effects on enrollment in obesity treatment. R03DK067357 funded by the NIH/NIDDK. Period: 01-AUG-2004 to 30-JUN-2006. Amount: **\$100,000** (total direct costs).
- Heymsfield, S. B., Gallagher, D., Allison, D. B. (**co-investigator**) et al. *Aging and Skeletal Muscle: New body composition models*. An R01 grant from the National Institute of Aging. Award Period: 4/1/95 to 3/31/99. Total Amount: **702,399** (direct costs).
- Huang, LS, Chua, S., & Allison, DB (**co-investigator/switched to consultant**). Regulation of ApoB Secretion in Inbred Mouse Strains. A proposal funded by the National Institutes of Health. Period: 4/1/00 – 3/31/04. Amount: **\$1,000,000** (direct costs).
- Jensen, M. D. & Allison, D. B. (**co-investigator**). Advances in Obesity – From the Environment to the Gene. An R13 (conference) grant funded by the National Institute of Diabetes, Digestive, and Kidney Diseases. Period: 8/1/01 – 7/31/02. Amount: **\$15,000** (direct costs).
- Kaslow, R. ...& Allison, D. B. (co-investigator). Genetic factors in the epidemiology of HIV-1 infection. A proposal funded by the National Institute of Health. Total Amount: \$2,835,056 (direct plus indirect costs). Period: 12/1/01 - 11/30/06. [Withdrew from grant due to over-commitment – replaced by Varghese George].

- Kim, J.& Allison, D. B. (**co-investigator**). Risk and Injury Severity of Obese Child Passengers in Motor Vehicle Crashes. An R21 proposal submitted to the National Institutes of Health, NATIONAL INSTITUTE OF CHILD HEALTH & HUMAN DEVELOPMENT (R21 HD067784). Total amount \$387,313 (total costs). Period: 12/1/10 – 11/30/12.
- Kimberly, R. P.Allison, D. B. (**co-investigator/mentor**). Training Program in Rheumatic Diseases Research. A T32 grant funded by the National Institutes of Health. Total Amount: \$1,784,968 (total costs). Period: 5/1/02 – 4/30/07.
- Kimberly, R. P.,.....& Allison, D. B. (**co-investigator**). Multidisciplinary Clinical Research Center. A proposal submitted to the National Institute of Arthritis and Musculoskeletal and Skin Diseases. Total Amount: \$3,994,828 (direct costs). Period: 01/01/02 - 12/31/06. [Withdrew from grant due to over-commitment – replaced by Varghese George].
- Kimberly, R. P.,.....& Allison, D. B. (**co-investigator/PI of statistical genetics core**). Program Project in the Genetics of SLE. Funded by the National Institute of Arthritis and Musculoskeletal and Skin Diseases. Total Amount: \$5,000,000 (approximate direct costs). Period: 09/24/02 - 08/31/07.
- Kotler, D. P., Allison, D. B. (**co-investigator**), & Reka, S. *Application of Molecular Techniques to the study of HIV-Associated Lipodystrophy*. A proposal submitted to the Campbell Foundation. Total Amount: **\$72,000** (direct costs). Period: 6/1/01 – 5/30/02.
- Lefevre, M.,.....& Allison, D. B. (**co-investigator**). Diet, genetics, and CVD risk factor response in Blacks. U01HL072510. Funded by the National Heart, Lung & Blood Institute. Total Amount of UAB subcontract: \$1,063,005. Period: 10/01/02-08/31/06.
- Leibel, R. L....Allison, D. B. (**co-PI**). *Molecular Genetic Analysis of Human Obesity*. An R01 proposal (R01DK52431) Funded by the National Institutes of Health. Total Amount: **\$2,500,000** (direct costs). Period: 12/07/08 – 11/30/13.
- Lerman, C....Allison, D. B. (**co-investigator**). Transdisciplinary Tobacco Use Research Center. A P50 grant funded by the National Institutes of Health. Period: 09/01/04 - 08/31/09. UAB subcontract amount \$108,750 (over 5 years). [Removed from grant after 2nd year due to budget cuts].
- Liu, N..... Allison, D. B. (**co-investigator**), et al. Genome Wide Haplotype Association Analysis. R01GM081488 funded by the National Institutes of Health. Total Amount: **\$1,160,000** (total costs). Period: 01-APR-2008 to 31-MAR-2013.
- Mohatt, G., Boyer, B., ...Allison, D.B. (**co-investigator**) et al. *Building a Center of Biomedical Research Excellence for Alaska Native Health Research*. A proposal funded by the National Institutes of Health. Total Amount: **\$7,498,540** (direct costs). Period: 7/01/01 to 06/30/07.
- Morgan/Hahn & Allison, D.B. (co-investigator). LIT: Integrating physiological and genetic mechanisms to understand the evolution of cold tolerance. Funded by the National Science Foundation. Total Amount (135,724). Period 4/01/11 – 3/31/14.
- Mountz, J. ...& Allison, D. B. (**co-investigator**). Administrative Supplement to “Defective Fas Apoptosis During Aging”. A proposal submitted to the National Institute of Aging. Total Amount: **\$100,000** (direct costs). Period: 9/30/01 – 9/29/02.
- Nagy, T. & Allison, D. B. (**co-PI**). *Effects of dairy products on insulin sensitivity*. An investigator-initiated proposal funded by General Mills. Period: 07/01/04 - 06/30/05. Amount: \$125,000 (total).
- Nagy, T. ...Allison, D. B. (**co-PI**). *Antipsychotic drug-induced weight gain*. An R01 proposal funded by the NIH/NIDDK. Period: 07/01/04 - 06/30/09. Amount: \$1,407,121 (total direct).
- Page, G. P.[original PI: Edwards, J.], & Allison, D. B. (**co-principal investigator**). *A Power & Sample Size Atlas for Microarray Research*. Funded by the National Science Foundation. Period: 9/1/03 – 8/31/05. A proposal funded by the National Science Foundation. Total amount **\$97,835** (direct costs).

- Pi-Sunyer, F. X.,Allison, D. B. (**co-investigator/switched to consultant**), et al. Obesity Research Center. A P30 (center grant) grant funded by the National Institute of Diabetes, Digestive, and Kidney diseases. Period: 5/1/00-5/1/05. Amount: **\$5,000,000** (direct costs).
- Pi-Sunyer, F. X., Allison, D. B. (**co-investigator**), et al. *The NIDDM Primary Prevention Trial*. Funded by the National Institutes of Health. Total Amount: **\$2,043,926** (direct costs).
- Pi-Sunyer, F. X., Allison, D. B. (**co-investigator**), Stunkard, A. J., Hirsch, J., Bouchard, C., & Bjorntorp, P. *Obesity Treatment: Establishing Goals, Improving Outcomes, and Reviewing The Research Agenda*. A grant for a three day international scientific conference funded by the NIH, NATO, the American Psychological Association, and several industrial corporations, June, 1993. Total Amount: **\$98,000**.
- Pi-Sunyer, F. X., Allison, D. B. (**co-PI**), et al. Obesity Research Center Training Grant. A T32 application for post-doctoral training funded by the National Institute of Diabetes, Digestive, and Kidney Diseases. Period: 5/1/00-5/1/05. Amount: **\$1,000,000** (direct costs).
- Prolla, T., ... Allison, D. B. (**co-investigator**). *Gene Expression, Caloric Restriction & the Aging Brain*. An R01 proposal funded by the National Institutes of Health. Total Amount: **\$1,250,000** (direct costs). Period: 15-MAR-2003 - 31-JAN-2008.
- Ruden, D. ...& Allison, D. B. (**co-investigator**). Toxicogenomics of Lead, Mercury, and Cadmium. A proposal funded by the National Institute of Health. Total Amount: **\$287,000** (direct plus indirect costs). Period: 6-1-02 to 5-31-04. [Withdrew from grant due to over-commitment – replaced by Nengjun Yi].
- Saag, K.G....Allison, D.B. (**co-investigator**). UAB Center for AIDS Research (CFAR). A center grant proposal P30AI27767 funded by the National Institutes of Health/National Institute of Allergy and Infectious Disease. Total costs: **\$480,000** (Total costs). Period: 03/01/09 - 02/28/14. [Withdrew from grant due to over-commitment – replaced by Gary Cutter].
- Saffer, H., Grossman, M., & Allison, D. B. (**co-investigator**). *Prevention, Economics, and Obesity*. A proposal funded by the National Institutes of Health. Period: 7/1/00 – 6/30/04. Total Amount: **\$750,000** (direct costs).
- St-Onge, M.P....Allison, D. B. (**co-PI**). Cardiovascular Health Effects of Isocaloric Substitution of Polyunsaturated Fat Rich Snacks for Saturated and Transfat or Refined Carbohydrate Snacks in Moderately Hypercholesterolemic Individuals. A grant from Frito-Lay North America. Period: 2005-2007. Amount: ~\$569,708 (total costs).
- Stunkard, A. J., Hainer, V., Kunesova, M., Pariskova, J., Stich, V., Allison, D. A. (**co-investigator**) et al. *Twin Study of Obesity*. A Fogarty International Research Collaboration Award. Period: 7/1/95-6/30/96. Total Amount: **\$20,000** (direct costs).
- Tiwari, H. & Allison, D. B. (**co-investigator**), Short Course on Next-Generation Sequencing Technology and Statistical Methods. An R25 funded by the National Human Genome Research Institute, National Institutes of Health (R25HG006110). Total Amount: \$242,920 (total costs). Period: 04/01/11 - 03/31/14.
- Tiwari, H. K. & Allison, D. B. (**co-investigator**). Statistical Integration of Genetic Information Across Data Domains: Biomedical, Agricultural, and Comparative Genomics. A grant from the Institute of Mathematical Statistics for a 1-day meeting held on 12/2/02. Total Amount: **\$1,500**.
- Tiwari, H. K., Cutter, G., & Allison, D. B. (**co-principal investigator; formerly principal investigator**). UAB Biostatistics Pre-doctoral Training Program. A T32HL079888 pre-doctoral training grant funded by the National Heart, Lung, and Blood Institute. Total Amount: **\$1,073,783** (total costs). Period: 09/01/05 - 08/31/15.

- Tiwari, H. K..... Allison, D. B. (**co-investigator**), et al. Multiple imputation in genetic studies. An R21 funded by the National Institutes of Health (R21LM008791). Total Amount: \$291,000 (total costs). Period: 3/1/07 to 2/28/10.
- Watkins, D. I., ... Allison, D. B. (**consultant**). A Novel, Logical approach to HIV Vaccine. R01AI49120. A proposal funded by the National Institutes of Health. Period: 15-MAR-2001 - 28-FEB-2005.
- Watkins, D. I., ... Allison, D. B. (**consultant**). The Functional Significance of CTL Escape. R01AI052056. A proposal funded by the National Institutes of Health. Period: 01-APR-2003 - 31-MAR-2008.
- Watkins, D. I., Kawaoka, Y., Haase, A., Wolinsky, S., Altman, J., Fuller, D., Allison, D. B. (**consultant**), & Miler, C. *CTL-Based Vaccines for the AIDS Virus*. A proposal funded by the National Institutes of Health. Total Amount: **\$2,665,388** (direct costs). 4/01/08 – 6/30/13
- Weiden, P., Allison, D. B. (**co-investigator**), et al. *Sibutramine for weight loss in anti-psychotic induced weight gain*. A proposal funded by Knoll Pharmaceuticals. Total Amount: **\$40,000** (total costs).
- Weindruch, R. H.....Allison, D. B. (**co-investigator**). *Gene Expression Profiling, Oxidative Stress, and Aging*. An R01 funded by the National Institutes of Health. Total Amount: **\$2,170,097** (total costs). Period: 12/01/00-11/30/06.
- Weindruch, R.,... Allison, D. B. (**co-investigator**), et al. *Dietary Restriction and Aging in Rhesus Monkeys*. A P01 proposal submitted to the National Institutes of Health. Total Amount: **\$5,000,000** (direct costs). Period: 1/1/06 – 12/31/10.
- Weindruch, R.,... Allison, D. B. (**co-investigator**), et al. *Dietary Restriction and Aging in Rhesus Monkeys*. A P01 grant funded by the National Institutes of Health. Total Amount: **\$5,000,000** (direct costs). Period: 8/1/99 – 7/31/05.
- Williams, K....Allison, D. B. (**consultant**), et al. Keck Microarray Biotechnology Center. A proposal funded by the National Institutes of Diabetes Digestive and Kidney Diseases. Total Amount: **\$1,750,000** (direct costs). Period: 9/30/00 – 8/31/2003.
- Wyss, J. M....Brown, A. W., & Allison, D. B. (**co-investigator**). Big Data Hands on Education Supplement to Science Education Enabling Careers (SEEC). Funded by the National Institutes of Health. R25OD016490-03S1. Period: 07/10/2016 – 02/28/2017. Total costs: \$107,999.
- Xun, P. (joint-PI), Allison, D.B. (**joint-PI**). Evaluation on efficacy and safety of Herbalilife's Formula 1 product as a meal replacement in weight management: a meta-analysis of clinical trials. Funded by Herbalilife. Period: 6/19/2018 – 6/18/2019. Total amount: \$54,035.
- Yi, N.& Allison, D. B. (**co-investigator**). Bayesian Methods for Mapping Complex Epistatic Genes. An R01 funded by the National Institutes of Health. Total amount **\$1,084,915** (direct plus indirect costs). Period: 06/01/05 – 05/31/10.
- Zhang, K.& Allison, D. B. (**co-investigator**). Haplotype analysis in linkage disequilibrium mapping. An R01 proposal submitted to the National Institutes of Health – received 2.5 percentile. Total amount **\$1,017,363** (direct plus indirect costs). Period: 07/01/06 – 06/30/10.
- Zhu, S.& Allison, D. B. (**co-investigator**). Obesity-related variables and motor vehicle injury. An R01 funded by the National Institutes of Health (R01EB006552). Total amount **\$915,528** (total costs). Period: 7/01/07 – 06/30/10

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PUBLICATIONS IN PEER REVIEWED JOURNALS

1. Allison, D. B., Basile, V. C., & Yuker, H. E. (1991). The measurement of attitudes toward and beliefs about obese persons. *International Journal of Eating Disorders*, *10*, 599-607.
2. Allison, D. B., Basile, V. C., & MacDonald, R. B. (1991). The comparative effects of antecedent exercise and lorazepam on aggressive behavior in an autistic man. *Journal of Autism and Developmental Disorders*, *21*, 89-94.
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4. Allison, D. B. (1992). When Cyclicity is a Concern: A Caveat Regarding Phase Change Criteria in Single-Case Designs. *Comprehensive Mental Health Care*, *2*, 131-149.
5. Allison, D. B., Kalinsky, L. B., & Gorman, B. S. (1992). The Comparative Psychometric Properties of Three Measures of Dietary Restraint. *Psychological Assessment*, *4*, 391-398.
6. Murphy, C. M., Allison, D. B., Babbitt, R. L., & Patterson, H. L. (1992). Adiposity in Children: Is Mental Retardation a critical variable? *International Journal of Obesity*, *16*, 633-638.
7. Alfonso, V. C., Allison, D. B., & Dunn, G. M. (1992). The Relationship Between Sexual Fantasy and Satisfaction: A Multidimensional Analysis of Gender Differences. *Journal of Human Sexuality*, *5*, 19-37.
8. Allison, D. B., Silverstein, J. M., & Galante, V. (1992). Relative Effectiveness and Cost-Effectiveness of Cooperative, Competitive, and Independent Monetary Incentive Systems for Improving Staff Performance. *Journal of Organizational Behavior Management*, *13*, 85-112.
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16. Allison, D. B., & Gorman, B. S. (1993). Calculating and Estimating Effect Sizes for Meta-Analysis: The Case of the Single Case. *Behaviour Research and Therapy*, *31*, 621-631.

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SUBMITTED FOR PUBLICATION/UNDER REVISION

1. Brewer RA, Cui X, Miyasaki ND, Ptacek T, Kumar R, Hsieh Y, Liu N, Bertrand FE, Allison DB, Morrow CD, & Smith DL. *Hyperphagia, Altered Nutrient Processing and Decreased Adiposity with Acarbose in Mice*.
2. Chusyd, D. E., Johnson, M. S., Smith, D. L., Yang, Y., Allison, D. B., & Nagy, T. R. (submitted). *Effects of long-term calorie restriction and weight cycling on energy expenditure in C57BL/6J male mice*.
3. Fields, D. A., Demerath, E. W., Anderson, M., Williams, M., & Allison, D. B. *Associations between breast-milk adipocytokines to infant growth and body composition in normal and overweight mothers*.
4. Garcia-Alvarez, A., Cunningham, C. A., Mui, B., Penn, L., Spaulding, E. M., Oakes, J. M., Divers, J., Allison, D. B., & Cheskin, L. J. *Randomized, Placebo-Controlled Crossover Trial of a Decaffeinated Energy Drink Shows No Significant Effect on Mental Energy*.
5. Gibson, M. J., Chatindiara, I., Dawson, J. A., Ovalle, F., Allison, D. B., & Dhurandhar, E. J. *The Role of Protein in Regulating Energy Balance under Ad Libitum Conditions*.
6. Hannon, B., Thomas, D. M., Siu, C., O., & Allison, D. B. *Neglecting Regression to the Mean Continues to Lead to Unwarranted Conclusions: Letter Regarding “The magnitude of weight loss induced by metformin is independently associated with BMI at baseline in newly diagnosed type 2 diabetes: Post-hoc analysis from data of a phase IV open-labeled trial.”* [Letter/commentary].
7. Kahathuduwa, C. N., Thomas, D. M., Siu, C., & Allison, D. B. *Due to Regression to the Mean, the Published Conclusion of “We Run This City: Impact of a Community–School Fitness Program on Obesity, Health, and Fitness” Regarding Effects on BMI Cannot Be Substantiated*. [Letter/commentary].
8. Kroeger, C.M; Brown, A.W.; & Allison, D.B. *Invalid conclusions in randomized controlled trial of binge eating program due to Differences in Nominal Significance (DINS) Error*. [Letter/commentary].
9. Li X., Smith, D. L., Johnson, M. S., Allison, D. B., & Nagy, T. R. *Paradoxical effects of mild calorie restriction and refeeding in C57BL/6J mice*.
10. Martins, M., Gonzalez-Nieto, L., Shin, Y., Domingues, A., Gutman, M., Maxwell, H., Magnani, D., Ricciardi, M., Pedreño-Lopez, N., Bailey, V., Altman, J., Parks, C., Allison, D. B., Ejima, K., Rakasz, E., Capuano, S., Desrosiers, R., Lifson, J., & Watkins, D. I. *Protective efficacy of vaccine-induced T-cell responses against rectal SIV challenge in Mamu-B*08+ rhesus macaques*.
11. Mattison, J. A., Colman, R. J., Beasley, T. M., Allison, D. B., Kemnitz, J. W., Roth, G.S., Ingram, D. K., Weindruch, R., de Cabo, R., & Anderson, R. M. *Caloric restriction delays aging in nonhuman primates*.

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14. Mehta, T., & Allison, D. B. *Future Quality Improvement Studies to Reduce Complication Rates: Exploring Plausible Factors Influencing Patient Outcomes in the Centers of Excellence.* [Letter]
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PUBLISHED F1000 RECOMMENDATIONS (NOT NECESSARILY AN EXHAUSTIVE LISTING)

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PRESENTATIONS (selected)

1. Allison, D.B. (2019). "Scientific Integrity: Principles and Best Practices." Invited presentation at the AAAS 2019 Annual Meeting. Washington, DC.
2. Allison, D.B. (2019). "Facts vs. Myths about Obesity Treatment and Prevention: How to Make Obesity Science More Rigorous". An invited "lunch and learn" presentation to the Scientific Advisory Board (SAB) at Biofortis Research. Addison, IL.
3. Allison, D.B. (2019). Invited briefing on the National Academies of Sciences, Engineering, and Medicine's Reproducibility and Replicability Report to the Council on Government Relations. Washington, DC.
4. Allison, D.B. (2018). "Regression to the Mean – A frequently neglected source of confused conclusion". Invited presentation at Nutrition 2018, the American Society for Nutrition's annual meeting. Boston, MA.
5. Allison, D.B. (2018). "Rigor and Reproducibility in Research". Invited presentation at the Mid-Year Meeting of the International Life Sciences Institute (ILSI) in Arlington, VA.
6. Allison, D.B. (2018). "Obesity, Energetics, and Longevity: Social, Experimental, Evolutionary, and Epidemiologic Perspectives" invited lecture at the City-Wide Grand Rounds on Obesity and Metabolic Diseases. Medical College of Wisconsin, Milwaukee.
7. Allison, D.B. (2018). "Obesity, Energetics, and Longevity: Social, Experimental, Evolutionary, and Epidemiologic Perspectives." Invited DeWitt Goodman Seminar Series at Columbia University, New York.

8. Allison, D.B. (2018). "Best practices for communication – Lessons from Public Health." Invited presentation at AAAS Committee on Science and Technology Engagement with the Public (CoSTEP). Washington, DC.
9. Allison, D.B. (2018). "Scientific Integrity Principles and Best Practices: Transcending Boundaries Across the Scientific Enterprise." Invited presentation at the American Public Health Association's (APHA) 2018 Annual Meeting. San Diego, CA.
10. Allison, D.B. (2018). "Obesity, Energetics, and Longevity: Social, Experimental, Evolutionary, and Epidemiologic Perspectives." Invited lecture at the Sciencetech Club, Indianapolis, IN.
11. Allison, D. B. (2018). "Obesity, energetics, and longevity: social experimental, evolutionary, and epidemiologic perspectives" invited webinar obesity theories webinar for Lifestyle, Obesity and Metabolic research (LOM) Conference 2018, University of Copenhagen.
12. Allison, D. B. (2017). Breaches in Research Reproducibility: Contributing Factors, Examples, & Plausible Prophylaxis. Invited lecture presented to the DOJ/NIST National Commission on Forensic Science.
13. Allison, D.B. (2017). "Causal modeling in assessing effects of nutritional interventions" invited lecture for the National Institute on Aging's Nutritional Interventions to Promote Health Aging workshop in Bethesda, MD.
14. Allison, D.B. (2017). "Application of complex thinking and modeling in the field of obesity" invited presentation at the National Academy of Medicine's 2017 Annual Meeting: Program on the Complexity of Obesity. Washington, DC.
15. Allison, D.B. (2017). "Obesity, Energetics, and Longevity: Social, Experimental, Evolutionary, and Epidemiologic Perspectives" invited presentation in the Endocrine Rounds at the 17th Annual National Meeting of the Mouse Metabolic Phenotyping Center Program (MMPC). Vanderbilt University, Nashville, TN.
16. Allison, D.B. (2016). "Dependability, Defendability, and Transparency" invited lecture for Cedars-Sinai Diabetes-Obesity-Wellness symposium in Los Angeles CA on Fri 2/19/2016.
17. Allison, D.B. (2016). "Rigor, Reproducibility, and Transparency: Paths Forward" invited lecture for Experimental Biology in San Diego CA on Sun 4/3/2016.
18. Allison, D.B. (2016). "Creativity, Rigor, Reproducibility, and Transparency in Research – What, How, Why" invited lecture for UAB Vision Science Center in Birmingham AL on Thu 4/14/2016.
19. Allison, D.B. (2016). "Obesity, Weight Loss, Energetics, and Longevity" invited lecture to Janssen Research & Development, LLC.
20. Allison, D.B. (2016). "Obesity, Energetics, Security, and Longevity" accept award at invited Indiana University Corcoran lecture in Evansville, IN on Tue 10/18/2016.
21. Allison, D.B. (2016). "Reproducibility: A tragedy of errors" invited webinar for ISMPP (International Society for Medical Publication Professionals).
22. Allison, D.B. (2016). "Some Lessons Learned from 2/3rds of a Lifetime of Trial and Error (and a few readings)" Keynote lecture for the Obesity Society Early Career Academic workshop at TOS annual meeting in New Orleans LA.
23. Allison, D.B. (2016). "State of the Science of Energy Balance Research Across the Lifespan" invited lecture at ILSI Tech Summit: Innovative Tools for Assessing Diet & Physical Activity for Health Promotion in San Diego CA on Wed 11/30/2016.
24. Allison, D. B. (2015). "Just Cause: Some Thoughts About Estimating Treatment and Genetic Effects and their Heterogeneity". Invited lecture given at the National Human Genome Research Institute (NHGRI) of the National Institutes of Health.

25. Allison, D.B. (2015). Invited speaker as part of UAB's Donaldson Lecture Series at the Donaldson Correctional Institute: Title "Obesity & Nutrition."
26. Allison, D. B. (2014). Invited Lecture on leadership and ethics to the students of the Altamont School (a private school for gifted students).
27. Allison, D.B. Tue 5/7/2013. Invited speaker at Birmingham Kiwanis luncheon: Title "Myths, Presumptions, and Curious Conjectures about Obesity"
28. Allison, D.B. Tue 2/26/2013. Invited speaker as part of UAB's Donaldson Lecture Series at the Donaldson Correctional Institute: Title "Fallacies of weight control"
29. Allison, D.B. Wed 1/16/2013. Invited speaker at a Health Panel for the Birmingham Junior League: Title "Myths, Presumptions, and Facts of Obesity: Science as the Sifter"
30. Allison, D.B. Wed 12/12/2012. Invited speaker for the Rotary Club of Birmingham: Title "Obesity: Separating Myths, Presumptions, and Facts".
31. Allison, D.B. Thu 11/8/2012. Invited speaker for Leadership Birmingham - Birmingham Area Chamber of Commerce: Title "Obesity: Separating Myths and Presumptions from Facts with Rigorous Evaluation and Probative Research."
32. Allison, D.B. (2012) "Detecting and Minimizing Biases in the Evidence Base: Steps to Move Forward." 2012 ILSI Annual Meeting. Phoenix, AZ on January 23, 2012.
33. Allison, D.B. (2012) "Genetic and Environmental Influences on Obesity." Seminar speaker at Monell Chemical Senses Center's Thomas Jefferson University Medical College. Philadelphia, PA on January 31, 2012.
34. Allison, D.B. (2012) "Open-mindedness and skepticism about causes and alleviators of the obesity epidemic". Invited speaker at Obesity Roundtable Discussion at Boston University's School of Medicine. Boston, MA on February 13, 2012.
35. Allison, D.B. (2012) "Genetic and Environmental Influences on Obesity." Seminar speaker at Center for Translational and Public Health Genomics at University of Texas MD Anderson Cancer Center. Houston, TX on Feb 23, 2012.
36. Allison, D.B. (2012) "Open-mindedness and skepticism about causes and alleviators of the obesity epidemic". Invited speaker at Brain/Obesity NIDDK Intramural lecture series. Washington, DC on March 22, 2012.
37. Allison, D.B. (2012) "Open-mindedness and skepticism about causes and alleviators of the obesity epidemic". Invited speaker at Mid-Atlantic NORC Mini-symposium at University of Maryland's School of Medicine. Baltimore, MD on March 23, 2012.
38. Allison, D.B. (2012) "The challenging trail from basic discovery to practical utility: Examples from the genetics of obesity". Invited speaker at Genetics / Genomics Featured Symposium for the Society of Behavioral Medicine Annual Meeting. New Orleans, LA on April 12, 2012.
39. Cai, ML Powell, DB Allison, & SA Watts (2012) Development of *Nothobranchius furzeri* as a Model for Aging and Nutrition. Poster at 5th Annual UAB Expo, Birmingham AL, April 20, 2012. <http://www.uab.edu/undergraduateresearch/uab-expo>.
40. Allison, D.B. (2012) "Energy Balance: A New Paradigm. Statistical and Study Design Issues". Invited speaker at Experimental Biology (EB2012) annual meeting by the ILSI North America Technical Committee on Energy Balance and Active Lifestyle. San Diego, CA on April 21, 2012.
41. Allison, D.B. (2012) "A Call for Skepticism, Open-Mindedness, and Fidelity of Communication About Causes and Alleviators of the Obesity Epidemic". Lecture at Nutrition and Psychology class at Cornell University. Ithaca, NY on April 26, 2012.

42. Allison, D.B. (2012) "What Contributes to Obesity: The Need for Skepticism & Open-mindedness". Keynote Address at the New York Academy of Sciences (NYAS) Conference: New Thoughts about Cause, Prevention, & Treatment of Childhood Obesity. Binghamton, NY on April 27, 2012. <http://www.nyas.org/Publications/Ebriefings/Detail.aspx?cid=421ef88d-4efa-41b1-9d5e-0440ddc8cfd0>.
43. Allison, D.B. (2012) "A perspective from Academia". Invited speaker at Red Bull Planning meeting re advising federal regulatory agencies on the safety/efficacy of products. Washington, DC on May 8, 2012.
44. Allison, D.B. (2012) "A Call for Skepticism, Open-Mindedness, and Fidelity of Communication About Causes and Alleviators of the Obesity Epidemic". Keynote Address for the University of Tennessee's (Knoxville) Comparative and Experimental Medicine program. Knoxville, TN on May 22, 2012.
45. Allison, D.B. (2012) "Contributions to Obesity: Exploring the Road Less Traveled". Speak @ American Psychological Association (APA) annual Convention, obesity track of presidential programming. Orlando, FL on August 3, 2012.
46. Allison, D.B. (2012) "Making data publicly available: benefits, challenges, and suggestions". Host and speak at Conference on Scientific Approaches to Strengthening Research Integrity in Nutrition and Energetics. New Paltz, NY on August 8, 2012.
47. Allison, D.B. (2012) "Why study energy balance and how?" Invited speaker at Latin-American Scientific Series Energy Balance Symposium. Sao Paulo, Brazil on August 16, 2012.
48. Allison, D.B. (2012) TOS Keynote Debate re The Role of Sugar-Sweetened Beverages in the Obesity Epidemic: Plague Rat or Red Herring? The Obesity Society Annual Meeting. San Antonio, TX on September 2, 2012.
49. Allison, D.B. (2012) "Introduction to Genomics & Utility in Healthcare: With Examples from Obesity". Invited speaker at FDA Genomic Evaluation Team for Safety's (GETS) symposium on The Application of Genomics at CBER. Washington, DC on September 6, 2012.
50. Allison, D.B. (2012) "A Call for Skepticism and Open-Mindedness About the Causes and Ameliorators of Obesity". Keynote speaker at Annual HDDAC Diabetes Research Symposium at the Oklahoma University Health Sciences Center. Oklahoma City, OK on October 19, 2012.
51. Allison, D. B. *Causes and Consequences of Obesity*. An Invited Lecture delivered at the Danish House of Parliament, November, 2011.
52. Allison, D. B. *Body Fat and Survival: From Ecology to Public Health*. An Invited Keynote Lecture delivered at the 9th International Symposium on In Vivo Body Composition Studies HangZhou, China May 21-24, 2011.
53. Kim, J. E., Hsieh, M. H, Shum, P. C., Kim, Y. H., Shih, A. M., Tubbs, R. S., and Allison, D. B., "Modeling methodologies and simulations to investigate impact-induced traumatic injuries sustained by obese children," International Symposium on Models and Modeling Methodologies in Science and Engineering, Orlando, FL, Jul. 19-22, 2011.
54. Allison, D. B. *Ideas from the Outlands: Contributors to Obesity from (A)mbient Temperature to (Z)oonitic Viruses*. Invited lecture delivered at the Canadian Society for Exercise Physiology (CSEP), November, 2010.
55. Allison, D. B. Discussion leader for session in *Obesity: The Gene-Environment Interaction and its Implications*. An invited role in a closed meeting at Melville Castle, Aberdeen Scotland, hosted by the Company of Biologists.
56. Allison, D. B. *The Rise of Statistics as an Empirical Science: Genomics as the Leavening*. Invited lecture delivered at Zhejiang University, Institute of Bioinformatics, Huajiachi Campus, Hangzhou, China, April, 2010.

57. Allison, D. B. *Obesity: A Look Through the Kaleidoscope*. Invited lecture delivered at Zhejiang University, School of Public Health, Hangzhou, China, April, 2010.
58. Allison, D. B. *Data credibility and faithfulness in research reporting*. Invited lecture delivered at American Heart Association INAP Meeting, March, 2010.
59. Allison, D. B. *Conjectures on Some Curious Connections Among Social Status, Hunger, Fatness, and Longevity*. Invited lecture delivered at the National Institute of Diabetes, Digestive, and Kidney Disease, NIH, February, 2010.
60. Allison, D. B. *Dissecting the Evidentiary Basis of Outcome Claims in A Regulatory Framework*. Invited lecture delivered at the International Association for the Study of Obesity's Nutrition Discussion Forum: Monday 1st December 2008, Royal Society of Medicine, Chandos House, London. 'Health Claims': An analysis of FTC (US), EFFSA (EU) and Scandinavian Regulations.
61. Padilla, M. A., Elobeid, M., & Allison, D. B. (2008). An Examination of the Association of Heavy Metals with Weight Gain/Obesity: NHANES 99-02 T5: PS.180 (Submitted as an Oral or Poster Presentation to the 16th European Congress on Obesity, in Geneva Switzerland, May 16, 2008, 1545-1715)
62. Elobeid, M, Padilla, M, and Allison, D. Environmental Toxins and Obesity: An Examination of Pesticides and Phthalates, NHANES 99-02. (Will be presented as an Oral Presentation at the 16th European Congress on Obesity, in Geneva, Switzerland, May 14-17, 2008).
63. Yi N, Ding S, Keith SW, Coffey CS, & Allison DB. (2007) Bayesian Analysis of the Effect of Intentional Weight Loss on Mortality Rate. Presented at the Joint Statistical Meetings; St Lake City, UT, July 29 - Aug 2.
64. Allison DB. (2007) Accounting for unobserved confounders via data augmentation. Presented at the Joint Statistical Meetings; St Lake City, UT, July 29 - Aug 2.
65. Vaughan LK, Divers J, Padilla M, Redden DT, Tiwari HK, Pomp D, & Allison DB. (2007) Evaluating individual admixture estimation through plasmodes. Presented at the Joint Statistical Meetings; St Lake City, UT, July 29 - Aug 2.
66. Keith SW & Allison, DB. 2007. A simulation study of a model selection procedure for nonlinear logistic regression. Poster presented at IBS ENAR 2007. March 11 - 14, 2007, Atlanta GA.
67. Bartolucci A, Allison DB, Singh K, Bae S. (2006) Demonstrating the Use of the Mixture Model in Analyzing Microarray Gene Expression Data. Presented at 2006 Joint Research Conference on Statistics in Quality, Industry and Technology., Knoxville, TN, June 7-9, 2006.
68. Hughes LB, Moreland LW, Howard G, Alarcón GS, Allison DB, Westfall AO, Conn DL, Jonas BL, Callahan LF, Smith EA, Gilkeson GS, Fraser P, Reich D, Bridges SL. (Nov, 2006). The HLA DRB1 Shared Epitope Is Associated With Rheumatoid Arthritis In African-Americans And Correlates With Higher Estimated Admixture Of European Ancestry: Results From the CLEAR Registry. ACR/AHP Scientific Meeting 06, Nov 11 - 15. Washington DC.
69. Allison, D. B. (Mar, 2006). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Invited lecture at the 6th Annual NIDDK-funded Short Course in Statistical Genetics for Obesity & Nutrition Researchers. San Francisco, CA.
70. Allison, D. B. (Mar, 2006). Genetic & Environmental Influences on Obesity: No Simple Answers. Invited lecture at the Grand Rounds at Washington University. St. Louis, MO.
71. Allison, D. B. (Mar, 2006). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Invited lecture at the 2nd Annual Frontiers NIAMS-funded Short Course on Statistical Genetics. Atlanta, GA.

72. Jacob P. L. Brand, Lan Chen, Xiangqin Cui, Alfred A. Bartolucci, Grier P. Page, Kyoungmi Kim, Stephen Barnes, Vinodh Srinivasasainagendra, Mark T. Beasley and David B. Allison. 2006. An Adaptive Alpha-Spending Algorithm Improves the Power of Statistical Inference in Microarray Data Analysis. ENAR 2006 Spring Meeting, March 26-29, Tampa, FL.
73. Jacob Brand, Lang Chen, Xiangqin Cui, Alfred Bartolucci, Grier Page, Kyoungmi Kim, Stephen Barnes, Vinodh Shrinivasasainagendra, Mark Beasley, Andrey Ptitsyn, David Allison. 2006. An Adaptive Alpha-spending Algorithm Improves the Power of Statistical Inference in Microarray Data Analysis. 2006. The Third Annual Conference of the MidSouth Computational Biology and Bioinformatics Society., March 2-4, Baton Rouge, LA.
74. Allison, D. B. (Feb, 2006). Structured Association Testing and Regional Admixture Mapping: A Unified and Extensible Model. Invited lecture at the Institut de Biologie de Lille - Institut Pasteur de Lille. Lille CEDEX, France.
75. Allison, D. B. (Feb, 2006). Controversies and Confusions regarding Obesity and Longevity. Invited lecture at University of Florida. Gainesville, FL.
76. Allison, D. B. (Feb, 2006). Environmental Interactions with Genetics that Influence Obesity. **Invited lecture at University of Florida's York Distinguished Lecture Series.** Gainesville, FL.
77. Allison, D. B. (Feb, 2006). Genetic and Environmental Influences on Obesity. Invited lecture for Dr. Douglas Ruden's Environmental Health Masters Level Seminar (ENH 695/791) @ UAB. Birmingham, AL.
78. Allison, D. B. (Jan, 2006). Obesity, Overweight, and Mortality Rates: Understanding the Data behind the Differing Estimates. Invited lecture at 2006 ISLI NA Annual Scientific Meeting. San Juan, Puerto Rico.
79. Allison, D. B. (Nov, 2005). Obesity: Person and Population. Keynote lecture delivered at Workshop on obesity, hunger, and treatment hosted by SlimFast, Inc. West Palm Beach, FL.
80. Allison, D. B. (Nov, 2005). Obesity and Mortality Rate. Invited lecture at Morehouse School of Medicine's CVRI Lecture Series. Atlanta, GA.
81. Allison, D. B. (Nov, 2005). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Invited lecture delivered at the Department of Statistics, Texas A&M University. College Station, TX.
82. Allison, D. B. (Oct, 2005). Relationship of Obesity and Psychiatric Disorders. Invited lecture delivered at a National Institute of Mental Health workshop on Obesity and Severe Mental Disorders. Bethesda, MD.
83. Allison, D. B. (Oct, 2005). Medication effects on weight and adiposity. Invited lecture delivered at a National Institute of Mental Health workshop on metabolic effects of antipsychotic drugs and mood stabilizers. St. Louis, MO.
84. Allison, D. B. (Sept, 2005). Resampling-based Inference in High Dimensional Biology. Lecture delivered at a National Science Foundation sponsored retreat on design and analysis of microarray studies. New Paltz, NY.
85. Allison, D. B. (Sept, 2005). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Lecture delivered at the Data Analysis Workshop of the National Heart, Lung, and Blood's PROGENI Network. Baltimore, MD.
86. Allison, D. B. (Sept, 2005). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Invited lecture delivered at the annual Joint Statistical Meeting (JSM).

87. Allison, D. B. (Sept, 2005). Regional Admixture Mapping (RAM) and Structured Association Testing (SAT): A Unified Framework. Invited lecture delivered at the annual Joint Statistical Meeting (JSM).
88. Allison, D. B. (Sept, 2005). Genetic & Environmental Influences on Obesity: No Simple Answers. Invited lecture delivered at the Department of Psychology, University of Alabama at Birmingham. Birmingham, AL.
89. Allison, D. B. (July, 2005). New approaches for dealing with bioinformatics OR Sense & Nonsense in Microarray Research & HDB. Invited lecture delivered at the annual meeting of the American institute on Cancer Research.
90. Allison, D. B. (May, 2005). Structured Association Testing (SAT) & Regional Admixture Mapping (RAM). Lecture delivered at UAB-sponsored workshop on genetic admixture. Birmingham, AL.
91. Allison, D. B. (March, 2005). Genetic & Environmental Influences on Obesity: No Simple Answers. Invited lecture delivered at the National Cancer Institute. Bethesda, MD.
92. Allison, D. B. (Feb, 2005). Genetic & Environmental Influences on Obesity: No Simple Answers. Invited lecture delivered at the annual meeting of the UAB Medical School Alumni. Birmingham, AL.
93. Allison, D. B. (Feb, 2005). Sense & Nonsense in Microarray Research & HDB. Invited lecture delivered at St. Jude's Children's Hospital. Memphis, TN.
94. Allison, D. B. (Dec, 2004). Attributable Risk in Practice-Examples from the Field: Obesity. Invited lecture delivered at the Institute of Medicine. See: <http://www.iom.edu/project.asp?id=24066>
95. Allison, D. B. (Dec, 2004). Sense & Nonsense in Microarray Research & HDB. Invited lecture delivered at Ligand Pharmaceuticals. San Diego, CA.
96. Zakharkin SO, Hunter GR, Lara-Castro C, Byrne NM, Allison DB. (2004) Weight Loss Needed to Maintain Visceral Adipose Tissue During Aging. Presented at the UAB Center for Aging Annual Meeting; Birmingham, Alabama, September 10, 2004. **Paper won the post-doc/junior faculty award in the Clinical Science - Health Services - Outcomes Research category at the conference.**
97. Garge NR, Page GP, Sprague AP, Allison DB. (2004) Cluster Stability in Microarrays. Presented at Midsouth Computational Biology and Bioinformatics Society Conference; Little Rock, Arkansas, October 8, 2004.
98. Zakharkin S.O., Page G.P., Allison D.B., Fuller C.M., Gillespie G.Y., Reddy A.T., Mapstone, T.B., Benos D.J. Gene Expression Profiling in Pediatric Brain Tumors Using Microarray Analysis. ASBMB Annual Meeting & 8th IUBME Conference. Boston MA, June 12 - 16, 2004. Poster B434.
99. Henderson DC, Allison DB, Cagliero E, Daley TB, Borba C, Copeland P, Anderson E, Hayden D, Schoenfeld D, Goff DC. Glucose metabolism in schizophrenia patients treated with atypical antipsychotics: a frequent sampled intravenous glucose tolerance test and minimal model analysis. 44th Annual New Clinical Drug Evaluation Unit (NCDEU) Conference. Phoenix, AZ, June 1-4, 2004. Poster No. 232.
100. Brand JP, Beasley TM, Page GP, Bartolucci AA, Gadbury G, Kim K, Barnes S, Allison DB (April 2004). An adaptive weighted p-value algorithm for more powerful multiplicity control in finding differentially expressed genes in microarray data. Bioinformatics Symposium, University of Louisiana, Lafayette, [See: <http://www.cacs.louisiana.edu/bioinformatics/program.html>.]
101. Allison, D.B. (November, 2003). Adiposity associated with the use of anti-psychotic drugs. Invited lecture delivered to the ADA Consensus Development Conference on Anti-psychotic Drugs & Diabetes, Alexandria, VA.

102. Allison, D.B. (December, 2003). Design & Analysis of Microarray Studies. Invited lecture delivered to the Emory University School of Medicine, Dept of Human Genetics, Atlanta, GA.
103. Allison, D.B. (December, 2003). Genetics of Obesity: A methodological Perspective. Invited lecture delivered to the Duke University Medical Center, Center for Human Genetics, Durham, NC.
104. Allison, D.B. (December, 2003). Pharmacologic management of obesity. Invited lecture delivered to Health Learning System: Pri-Med Update at the Binge Eating & Obesity Symposium, San Antonio, TX.
105. Allison, D.B. & Fernandez, J. (February, 2004). Statistical Genomics: Riding the Wave of the Data Torrent. Invited lecture delivered to the University of Alabama at Birmingham's Honors Program, Birmingham, AL.
106. Allison, D.B. (March, 2004). Novel Statistical Approaches to High Dimensional Analyses. Invited symposium delivered to the ENAR 2004, Pittsburgh, PA.
107. Allison, D.B. (April, 2004). A statistical geneticist looks at obesity. Invited lecture delivered at the ILSI - Pre-Experimental Biology Meeting 2004, Washington, DC.
108. Allison, D.B. (April, 2004). Mathematical modeling in microarray analysis. Invited lecture delivered at the APS Experimental Biology 2004 session: A Bioinformatics How-to-for the Wet-Lab Physiologist, Washington, DC.
109. Allison, D.B. (April, 2004). Microarray and related topics III. Invited lecture at the 2004 UAB Short Course on Statistical Genetics, Washington, DC.
110. Allison, D.B. (May, 2004). Weight Gain and its Associated Comorbidities. Invited lecture delivered to the Florida Association For The Study of Headache and Neurological Disorders, Palm Beach, FL.
111. Allison, D.B. (May, 2004). Methods for Multiple Comparison Adjustments. Invited lecture at the University of Arizona's Oligonucleotide Microarray Workshop, Tucson, AZ. [See: <http://ag.arizona.edu/microarray/workshopMay2004.html>]
112. Allison, D. B. (October, 2003). Food and Nutrition in Obesity Prevention: Implications for Research and Education. Invited Keynote Lecture delivered at the annual meeting of the USDA Advisory Board Committee, Washington, DC.
113. Allison, D. B. (October, 2003). Genetic Study Designs. Invited Keynote Lecture delivered at Phenotyping Obesity for Human Genetic Studies hosted by the National Institute of Diabetes, Digestive, and Kidney Diseases, Bethesda, MD.
114. Allison, D. B. (October, 2003). Hogs in Montana, Tea in China, Stars in the Heavens: Objectively Connecting Knowledge in High Dimensional Biology. Invited Lecture delivered at UAB's Comprehensive Cancer Center's Annual Retreat, Birmingham, AL.
115. Allison, D. B. (October, 2003). Antipsychotic induced weight gain: A second generation of research. Invited Lecture delivered at the annual meeting of the North American Association for the Study of Obesity, Fort Lauderdale, FL.
116. Allison, D. B. (September, 2003). Applying High-Dimensional Approaches to Microarray Research. Invited Lecture delivered at The Institute for Mathematics and its Applications' workshop on Statistical Methods for Gene Expression: Microarrays and Proteomics, Minneapolis, MN. [See: <http://www.ima.umn.edu/complex/fall/c1.html#schedule>]
117. Allison, D. B. (August, 2003). Microarray Research: Goldmine or Minefield. An Invited Lecture delivered at a meeting on Genomics Of Diabetes And Associated Diseases In The Post Genome Era, Lille, France.

118. Allison, D. B. (July, 2003). Statistical Issues in Longitudinal Data Analysis. An Invited Lecture delivered at the National Institute of Aging, Bethesda, MD.
119. Allison, D. B. (July, 2003). Antipsychotic-induced weight gain: A second generation of research. An Invited Lecture delivered to Pfizer Pharmaceuticals, Ann Arbor, MI.
120. Allison, D. B. (July, 2003). Obesity: True Knowledge, presumed knowledge, and false beliefs. Invited **Keynote** Lecture delivered at the Chief Scientific Officers' meeting of the International Food Technologists annual meeting, Chicago, IL.
121. Allison, D. B. (June, 2003). Genetic & Environmental Influences on Obesity. An Invited Lecture delivered at the "Healthy Solutions: Innovation in Response to the Obesity Epidemic" meeting for the food industry sponsored by McNeil Pharmaceuticals, NY, NY.
122. Allison, D. B. (June, 2003). Obesity & Headache. An Invited Lecture delivered at the annual meeting of the American Headache Society, Chicago, IL.
123. Allison, D. B. (June, 2003). Applying High-Dimensional Approaches to Microarray Research. An Invited Lecture delivered at the Graybill Conference on Microarrays, Bioinformatics, & Related Topics, Fort Collins, CO.
124. Allison, D. B. (June, 2003). Problems in statistical genetics. An Invited Lecture delivered at the annual meeting of The Southern Regional Council on Statistics' Summer Research Conference in Statistics, Jekyll Island, GA.
125. Allison, D. B. (May, 2003). Antipsychotic induced weight gain. An Invited Lecture delivered at the annual meeting of The American Psychiatric Association, San Francisco, CA.
126. Allison, D. B. (May, 2003). Antipsychotic induced weight gain. An Invited Lecture delivered at the annual Biological Psychiatry meeting, San Francisco, CA.
127. Allison, D. B. (April, 2003). Adenovirus 36 as a potential cause of obesity: What additional evidence is needed. An Invited Lecture delivered at the annual Experimental Biology meeting, San Diego, CA.
128. Allison, D. B. (April, 2003). Antipsychotic-induced weight gain: A second generation of research. An Invited Lecture delivered to Eli Lilly & Co., Indianapolis, IN.
129. Allison, D. B. (April, 2003). Obesity among African Americans. An Invited Lecture delivered at the annual meeting of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, Indianapolis, IN.
130. Allison, D. B. (April, 2003). Use of Microarrays for Pharmacogenomics Research. An Invited Lecture delivered at Indiana University's Division of Clinical Pharmacology in the Department of Medicine, Indianapolis, IN.
131. Allison, D. B. (April, 2003). Design & Analysis of Microarray Studies. An Invited Lecture delivered at Indiana University's Indiana University School of Medicine Department of Endocrinology & Medical & Molecular Genetics, Indianapolis, IN.
132. Allison, D. B. (March, 2003). Design & Analysis of Microarray Studies. An invited lecture delivered at the Wistar Institute, Philadelphia, PA.
133. Allison, D. B. (March, 2003). Statistical Methods in High Dimensional Biology: Examples from Microarray Research. An invited lecture delivered at the University of Pennsylvania, Philadelphia, PA.
134. Allison, D. B. (March, 2003). Obesity, Weight Loss, & Mortality. The **1st Janssen Distinguished Lecture** delivered at the University of Southern California, Los Angeles, CA.
135. Holt, J., Beasley, T. M., & Allison, D. B. (March, 2003). Statistical Models of Gene Expression from Microarray Data. Presented at the 2003 ENAR conference, Tampa, Florida.

136. Allison, D. B. (December, 2002). Integrating QTL Mapping Data Across Species: Comparative Genomics Made Quantitative. Invited address delivered at conference sponsored by the Institute of Mathematical Statistics on *Statistical Integration of Genetic Information Across Data Domains: Biomedical, Agricultural, and Comparative Genomics*. Held in Birmingham, Alabama.
137. Beasley, T. M., Fernandez, J. R. George, V., & Allison, D. B. (November, 2002). Quantitative Genomics and Biostatistics: Exciting Career Opportunities in 21st Century Science. Presented at the annual American Indian Science & Engineering Society National Conference in Tulsa, Oklahoma.
138. Allison, D. B. (September, 2002). Design & Analysis in High Dimensional Biology: Examples from Microarray & Related Research. **Keynote** Address delivered at Auburn University's Cellular & Molecular Biosciences Fall Mini-Symposium.
139. Allison, D. B. (March, 2002). Genetic & Environmental Influences on Obesity. An invited lecture delivered to the Palm Chapter of the Florida Psychological Association.
140. Allison, D. B. (October, 2001). Standards of evidence in obesity treatment loss trials. In Non-pharmacological Treatments for Obesity. A symposium sponsored by Nutripharma Inc at the 2001 meeting of the North American Association for the Study of Obesity.
141. Allison, D. B. (August, 2001). Data Analytic Approaches to Microarray Technology. An invited address delivered at the summer conference on Obesity sponsored by the Federation of American Societies of experimental Biology. Snowmass, CO.
142. Allison, D. B. (July, 2001). Statistical Analysis in Pooling Data from Multiple Genome Scans. An invited address delivered at the National Institute of Diabetes, Digestive, & Kidney Disease's second *AdiMap* workshop. Washington, DC.
143. Allison, D. B. (July, 2001). Statistical Analysis of Microarray Gene Expression Data. An invited address delivered at the National Institute of Diabetes, Digestive, & Kidney Disease's conference on *Genomic and Proteomics in Kidney and Urologic Disease*. Washington, DC.
144. Allison, D. B. (May, 2001). New approaches to the epidemiology of obesity and cardiovascular disease risk. An invited address delivered at the NHLBI-NIDDK Working Group on the Pathophysiology of Obesity-Associated Cardiovascular Disease, Bethesda, MD.
145. Allison, D. B. (May, 2001). Public Health & Environmental approaches to obesity. An invited address delivered to Kraft (Nabisco) Nutrition Group, Chicago, Ill.
146. Allison, D. B. (May, 2001). Statistical Analysis of Microarray Gene Expression Data. An invited address delivered to R. W. Johnson Research Foundation, La Jolla, California.
147. Allison, D. B., & Mackell, J. (2000). Healthcare resource use and body mass index among individuals with schizophrenia. Presented at the 13th annual meeting of the European College of Neuropsychopharmacology, Munich, Sept 9-13, 2000.
148. Allison, D. B. (August, 2000). Statistical Methods for Gene Mapping with Quantitative Traits. An invited address delivered at the Indiana University School of Medicine.
149. Allison, D. B. (July, 2000). Statistical Methods for Gene Mapping with Complex Traits. An invited address delivered at the Sackler Institute, NY, NY.
150. Allison, D. B. (April, 2000). Food Policy & Obesity: What Do the Data Tell Us. An invited address delivered at the 2000 Food Update Conference, Sanibel Island, Florida.
151. Allison, D. B. (April, 2000). Genetic Influences on Obesity: Something for Everyone. An invited address delivered at the Inauguration of the Clinical Nutrition Research Unit at the University of Alabama at Birmingham.

152. Allison DB, Mackell JA, Gutterman EM. The Impact of Weight Gain on Quality of Life among Individuals with Schizophrenia. 39th Annual New Clinical Drug Evaluation Unit (NCDEU) Conference. Boca Raton, FL, June 1-4, 1999. Poster No. 91.
153. Allison, D.B., and Mackell, J.A. Healthcare Resource Use and Body Mass Index among Individuals with Schizophrenia. 40th Annual New Clinical Drug Evaluation Unit (NCDEU) Conference. Boca Raton, FL, May 30-June 2, 2000. Poster No. 125.
154. Allison, D. B. (March, 1999). Genetic & Environmental Influences on Obesity. An invited address delivered at the Research Institute on Addictions at the State University of New York at Buffalo.
155. Allison, D. B. (February, 2000). Statistical Analysis of Microarray Gene Expression Data. An invited address delivered to the Biostatistics Department of the New York State Psychiatric Institute at Columbia University.
156. Allison, D. B. (February, 2000). Research Directions in Antipsychotic Induced Weight Gain. An invited address delivered at the University of Innsbruck.
157. Allison, D. B. (January, 1999). Genetic & Environmental Influences on Obesity. An invited address delivered at the Jean Mayer Center for Research on Nutrition and Aging at Tufts University.
158. Allison, D. B. (December, 1999). Some estimation and inference problems in mapping quantitative trait loci. An invited address delivered to the Columbia University Genetic Epidemiology Seminar.
159. Allison, D. B. (December, 1999). Genetic & Environmental Influences on Obesity. An invited address (Grand Rounds) delivered to the Department of Psychiatry, Medical College of Virginia.
160. Allison, D. B. (October, 1999). Tests of Linkage in the Presence of Association with Quantitative Traits. An invited address delivered to the American Society of Human Genetics, San Francisco.
161. Allison, D. B. (1999, October). Body composition and longevity. An invited address delivered at the International Symposium on in Vivo Body Composition at the Brookhaven National Laboratory.
162. Allison, D. B. (1999, September). Body weight, body composition and longevity. An invited address delivered to the Primate Research Center of the University of Wisconsin.
163. Allison, D. B. (1999, September). Body weight, body composition, aging, and mortality rate. An invited address delivered at the Annual Conference on Nutrition and Aging, Little Rock, Arkansas, Veterans Administration.
164. Allison, D. B. (1999, September). The Rising Tide of Obesity. What is the role of the food industry. An invited address delivered at the annual meeting of the Grocery Manufacturers' Association, Washington, DC.
165. Allison, D. B., Mackell, J., & Gutterman, E. M. (1999, August). The Impact of Weight Gain on Quality of Life among Individuals with Schizophrenia: The Patient's Perspective. Presented to the CINP in Hamburg Germany.
166. Allison, D. B. (1999, June). Genetics of Obesity: A very complex trait. An invited address given at the National Institute of Health's STEP Forum on "Complex Traits: Genes, Environment and Disease.". Bethesda, MD, June 10, 1999.
167. Allison, D. B. (1999, March). Genetic influences on the longevity response to caloric restriction in humans. An invited address given at the National Institute of Aging's workshop on "Caloric Restriction: Clinical Implication and Extensions". Bethesda, MD, March 8-10, 1999.

168. Allison, D. B., Mentore, J. M., Heo, M. Chandler, L., Cappelleri, J. C., Infante, M., & Weiden, P. *Meta-analysis of the effects of anti-psychotic medication on weight gain*. Presented to the 9th Congress of the Association of European Psychiatrists in Copenhagen, Denmark, in September 1998.
169. Allison, D. B., Mentore, J. M., Heo, M. Chandler, L., Cappelleri, J. C., Infante, M., & Weiden, P. *Meta-analysis of the effects of anti-psychotic medication on weight gain*. Presented to the XX1st Collegium Internationale Neuropsychopharmacologicum (CINP) meeting in Glasgow, Scotland, July 12-16, 1998.
170. Allison, D. B., Mentore, J. M., Heo, M. Chandler, L., Cappelleri, J. C., Infante, M., & Weiden, P. *Meta-analysis of the effects of anti-psychotic medication on weight gain*. Presented to the New Clinical Drug Evaluation Unit (NCDEU) Meeting in Florida, June 8-12.
171. M. Chandler, L., Cappelleri, J. C., Infante, M., & Weiden, P. *Meta-analysis of the effects of anti-psychotic medication on weight gain*. Presented to the 151st Annual Meeting of the American Psychiatric Association in Toronto, Canada, May 30-June 4, 1998.
172. Carpenter, K.M., Hasin, D.S., Allison, D.B., & Faith, M.S. DSM-IV Major Depression and Obesity: A General Population Study. Presented to the American Psychological Association, August, 1998.
173. Allison, D. B. (1998, June). How to Interpret Outcomes Research. An invited address delivered to the media spokespersons of the American Dietetic Association.
174. Allison, D. B. (1998, May). Meta-Analysis: Extensions & Applications. An invited address delivered as part of a workshop on *Meta-analysis: Methods, Issues, Examples*. Sponsored by the NY Metropolitan Chapter of the American Statistical Association.
175. Allison, D. B. (1998, April). The Genetics of Obesity from an Environmental Point of View. An invited address delivered at the Grand Opening of the University of Maryland's Josslyn Center for Diabetes.
176. Allison, D. B. (1998, April). The Genetics of Obesity and Eating Disorders. An invited plenary address delivered at the Eighth International Conference on Eating Disorders, New York, New York.
177. Allison, D.B. (1998, March). Issues and Applications of Meta-Analytic Methods. In (L. Primavera; Chair) *Methods for Meta-Analysis*. An invited workshop presented to the Eastern Psychological Association.
178. Allison, D. B. (1998, February). Methods for the assessment of eating behaviors and weight related problems. An invited *Magestral (keynote)* address delivered at the opening of the *Italian Congress on Eating Disorders*, Bologna, Italy.
179. Allison, D.B. (1998, January). Genetic and Environmental Influences on Obesity. Paper presented to the American Society of Parenteral and Enteral Nutrition.
180. Allison, D. B. (1997, December). Prevalence and Consequences of Obesity. An invited address delivered at the Englewood Hospital, Englewood, NJ at a one-day symposium on Clinical Issues in Obesity hosted by Dr. Peter Bennotti.
181. Allison, D. B. (1997, July). Selective Sampling Strategies for Gene Mapping. Presented at the NAASO/NIDDK sponsored workshop *Advancing the Genetics of Obesity: Strategies & Methods*.
182. Allison, D. B. (1997, June). Fitness *AND* fatness affect health and longevity. An invited lecture/debate with Dr. Steven Blair at the University of Colorado Health Sciences Center.
183. Nathan, J. S., Heymsfield, S. B., Albu, J., Pi-Sunyer, F. X., & Allison, D. B. (1997, April). Descriptive Results from Phase I of the BMI50 Study: Measurement Challenges in the Massively Obese People. Presented to the Eastern Psychological Association.

184. Faith, M. S., Manibay, E. P., & Allison, D. B. Self-Concept and Obesity in Adolescents. (1997, April). Presented to the Eastern Psychological Association.
185. Allison, D. B. (1997, April). Scaling and Adjusting Data with Ratios, Residuals, Regression, and Allometry. Presented to the Eastern Psychological Association.
186. Allison, D. B. (1997, April). Obesity and body mass index, body composition, and gene mapping. Presented to the Eastern Psychological Association.
187. Allison, D. B. (February, 1997). *Genetic Epidemiology of Obesity*. Invited presentation delivered at the 2nd Abraham Conference on Preventive Nutrition "Obesity in the 1st Century" at Columbia University College of Physicians and Surgeons.
188. Allison, D. B. (January, 1997). *Genetic Influence on Food Intake: A Twin Study*. Invited presentation delivered at the 1997 annual meeting of the International Life Sciences Institute.
189. Allison, D. B., & Faith, M. S. (November, 1996). Bridging the data gap. In D. B. Allison (Chair) *Controversies in Obesity Treatment: Moving Toward Common Ground* (Symposium). Presented to the Association for the Advancement of Behaviour Therapy.
190. Allison, D. B. *Recent Advances in the Genetics of Obesity*. (November, 1996). Invited **Keynote** address presented to the Obesity and Eating Disorders Special Interest Group of the Association for the Advancement of Behaviour Therapy.
191. Allison, D. B. (November, 1996). *Obesity: Prevalence and Consequences*. In *Obesity: Problems, mechanisms & Therapies*. A one-day symposium at Montefiore Medical Center.
192. Allison, D. B. (September, 1996). *Advocacy (and other) Science: Separating the Reasonable from Unreasonable*. An invited lecture delivered at the annual meeting of the D.C. Science Writers' Association.
193. Allison, D.B. & Faith, M.S. (August, 1996). A Proposed Heuristic for Communicating Heritability to the General Public. Presented to the American Psychological Association.
194. Allison, D. B. (1996). *Statistical Aspects of Data Normalization Procedures*. In Goran, M. I. *Workshop on Data Normalization Procedures*. Presented at the 1996 Experimental Biology meeting.
195. Pietrobelli, A., Brambilla, P., Manzoni, P. Heymsfield, S. B., Gallagher, D., Allison, D. B., Faith, M. S., Chiumello, G. (April, 1996). Validation of BMI as a Measure of Adiposity in Children and Young Women. Presented at the 1996 International Congress on Eating Disorders.
196. Allison, D. B. (April, 1996). Psychobiology of Eating Disorders I: Genetics. Presented at the 1996 International Congress on Eating Disorders.
197. Allison, D. B. (April, 1996). Eating Disorders Research Viewed from an Obesity Research Perspective: What Can We Learn? Presented at the 1996 International Congress on Eating Disorders.
198. Allison, D.B. (April, 1996) Overview and Introduction on Obesity: Pathophysiology and Treatment II (Metabolic Processes in Health and Disease Theme). Presented at the 1996 Experimental Biology Meeting.
199. Faith, M.S. & Allison, D.B. (March, 1996). Do Social Comparison Tendencies Moderate the Obesity Body Image relationship. Presented to the Eastern Psychological Association.
200. Edlen-Nezin, L., Allison, D.B., & Clay-Williams, G. (March, 1996). Race effects on body weight satisfaction and dieting beliefs and behaviors. Presented to the Eastern Psychological Association.
201. Allison, D.B. (March, 1996). Alternative Models for Meta-Analysis. In (L. Primavera; Chair) *Methods for Meta-Analysis*. Presented to the Eastern Psychological Association.

202. Allison, D. B. (March, 1996). *Going to Extremes: Statistical Issues in Mapping Genes for Complex Traits*. An invited address presented to the New York Metropolitan Chapter of the American Statistical Association.
203. Allison, D. B. (November, 1995). *New findings in the genetics of obesity*. An invited address presented at the annual Nutrition Symposium at Johns Hopkins University School of Medicine.
204. Allison, D. B. (October 1995). *Interpreting epidemiological research*. An invited address delivered at the annual meeting on journalistic reporting of epidemiological research hosted by the Boston University School of Journalism.
205. Allison, D. B. (August 1995). *The Measurement of Food Intake in Children*. Invited paper presented at the National Institutes of Health, National Institute of Diabetes Digestive and Kidney Disease's symposium on *Methods for Research in Childhood Obesity*, September 1995.
206. Allison, D. B., Faith, M.S. & Gorman, B.S. (August 1995). *The effects of autocorrelation on Type I error rates in single case research analyzed via randomization test*. Paper presented to the American Psychological Association.
207. Allison, D. B., Engel, C., Kreibich, K., Heshka, S., & Heymsfield, S.B. (August 1995). *Predicting weight loss: Assessing the predictive validity of three psychometric instruments*. Paper presented to the American Psychological Society.
208. Allison, D. B., Neale, M.C., Kezis, M. I., Alfonso, V.C., Heshka, S., & Heymsfield, S.B. (August 1995). *Assortative Mating for Relative Weight: Genetic and Social Implications*. Paper presented to the American Psychological Society.
209. Allison, D. B. (August 1995). *Meta-Regression: Issues and Applications*. In Primavera, L.H. (Chair). *Issues in the use of regression analysis*. A symposium presented to the American Psychological Association.
210. Allison, D. B. & Heymsfield, S. (August 1995). *Racial Admixture, adiposity, and adipose tissue distribution among Black females: A pilot study*. Presented to the 1995 FASEB Summer Conference on Genetic and Behavioral Influences on Obesity and Energy Regulation.
211. Allison, D. B. *Genetics of Human Obesity: Myths, Methods, & Measurements*. An invited address delivered to the New York City American Heart Association, June, 1995.
212. Allison, D. B., & Neale, M. C. *Does Genetic Predisposition to Obesity Moderate the Obesity-Hypertension Relation*. Paper presented to the International Twin Society, May, 1995.
213. Allison, D. B. *The Epidemiologic Evidence Regarding Trans-Fatty Acids and CHD*. Invited address presented at the 1995 meeting of the Oil Chemists Society.
214. Allison, D. B., & Faith, M. *Publication Bias in Obesity Treatment Trials?* Paper presented to the Eastern Psychological Association, April, 1995.
215. Goran, M. I., Allison, D. B., Poehlman, E. T. *Are Body Composition Ratios Valid Obesity Indices*. Paper presented to the Federation of American Societies of Experimental Biology, April, 1995.
216. Allison, D. B. *More Power & More Money*. In Primavera, L. H., Gorman, B. S., and Allison, D. B. *Practical Issues in Power Analysis*. A symposium presented to the American Psychological Association, August, 1994.
217. Mulheim, L. S., Allison, D. B., & Heymsfield, S. B. *Caloric Underreporting in obese persons*. Presented to the 6th International Conference on Eating Disorders, April, 1994.
218. Allison, D. B. (Invited Panel Presenter) at *Research and the New Paradigm*. Presented at the annual meeting of the Association for the Health Enrichment of Large People, April, 1994.
219. Allison, D. B. *Power and Money*. A symposium presented to the Eastern Psychological Association, April, 1994.

220. Allison, D. B., Heshka, S., Sepulveda, D., Babbitt, R. L., & Heymsfield, S. *Resting Metabolic Rate Among Persons With Down Syndrome*. Paper presented to the annual Gatlinberg Conference on Mental Retardation, March, 1994.
221. Basile, V. C., Motta, R., & Allison, D. B. *Antecedent Exercise as a treatment for disruptive behavior: Testing hypothesized mechanisms of action*. Paper presented to the Association for the Advancement of Behavior Therapy, November 1993.
222. Alfonso, V. C. & Allison, D. B. *Convergent and Discriminant Validity of the Extended Satisfaction with Life Scale*. Paper presented to the American Psychological Association, August, 1993.
223. Primavera, L. H., Gorman, B. S., & Allison, D. B. *Common questions of statistical consultants: What to do before hitting the ENTER key*. Paper presented to the American Psychological Association, August, 1993.
224. Gorman, B. S., Primavera, L. H., & Allison, D. B. *Difficulty factors in the restrained eating scale: When is a scale a scale?* Paper presented to the Eastern Psychological Association, April, 1993.
225. Allison, D. B. *Methodological Issues in Obesity Research with Examples from Biometrical Genetics*. Paper presented to at the symposium Obesity and Weight Control: Advances in the Medical and Psychosocial Management of the Nation's most Prevalent Life-Threatening Illness sponsored by The American Institute of Life-Threatening Illness and Loss, April, 1993.
226. Allison, D. B., & Heymsfield, S. B. *Do the obese overeat?* In Allison, D. B., & Pi-Sunyer, F. X. *Current Status of Scientific and Clinical Progress in Human Obesity*. A two-day symposium held at the annual AAAS convention in February, 1993.
227. Allison, D. B. *If we live in a deterministic world, why can't we predict treatment outcome?* In Allison, D. B., & Pi-Sunyer, F. X. *Current Status of Scientific and Clinical Progress in Human Obesity*. A two-day symposium held at the annual AAAS convention in February, 1993.
228. Allison, D. B., Gorman, B. S., & Primavera, L. H. (1992, August). *The Most Commonly Asked Questions by Statistical Consultees: Our Favorite Responses and Recommended Readings*. Invited address (Division 1) delivered to the American Psychological Association at the 1992 annual convention.
229. Allison, D. B., Heshka, S., & Heymsfield, S. B. (August, 1992). *A Method for the Identification and Analysis of Homologizer/Moderator Variables When the Moderator is Continuous*. Paper presented to the American Statistical Association.
230. Alfonso, V. C., & Allison, D. B. (1992, August). *Further Psychometric Development of the ESWLS*. Paper presented to the American Psychological Association.
231. Allison, D. B., & Heymsfield, S. B. (1992, August). *Is the Asymptotic Variance-Z Test Robust with Truly Small Samples?* Paper presented to the American Psychological Association.
232. Allison, D. B. (1992, August). *The Confounding of Single-Case Designs When Cyclicity is Present*. Paper presented to the American Psychological Association.
233. Gorman, B. S., & Allison, D. B. (1992, August). *Calculating Effect Sizes for Meta-analysis: The Case of the Single-Case*. Paper presented to the American Psychological Association.
234. Franklin, R. D., & Allison, D. B. (1992, August). *Visual Inspection, Response Guided Experimentation, and Type I Error Rate*. Paper presented to the American Psychological Association.
235. Silverstein, J. M., & Allison, D. B. (1992, August). *Proposed Designs for Informative, Ethical, and Inferentially Sound Clinical Evaluation*. Paper presented to the American Psychological Association.

236. Allison, D. B. (1992, August). *Evidence of Commingling in Human Eating Behavior*. Presented at the FASEB Summer Conference on "Energy Balance from Gene to Organism."
237. Allison, D. B. (May, 1992). *The Validity of Assumptions Underlying the Promotion of Weight Loss*. Invited address delivered to the Food and Nutrition Council of Greater New York.
238. Allison, D. B., & Heymsfield, S. B. (May, 1992). *Do Obese Persons Eat More Than Nonobese Persons? A Methodological Perspective*. Paper presented to the Association for the Health Enhancement of Large Persons.
239. Silverstein, J. M., & Allison, D. B. (May, 1992). *Antecedent Exercise in the Treatment of Disruptive Behavior*. Invited address delivered at the Young Adult Institute's 13th Annual International Conference.
240. Allison, D. B., Heshka, S., & Heymsfield, S. B. (May, 1992). *The Independent Effects of Age on Metabolic Rate: A "Mini-Meta-Analysis."* Paper presented to the American Society of Clinical Nutrition.
241. Gerace, L., Russell, M., Aliprantis, A., Wang, J., Pierson, R. N., Baumgartner, R., Allison, D. B., & Heymsfield, S. B. (May, 1992). *Differences in Bone Mass and Skeletal Linear Dimensions Between Black and White Men*. Paper presented to the American Society for Clinical Nutrition.
242. Allison, D. B. (April, 1992). *A Note on The Selection of Control Groups and Control Variables in Comorbidity Research*. Paper presented at the Fifth International Conference on Eating Disorders.
243. Allison, D. B., Heshka, S. & Heymsfield, S. B. (April, 1992). *Counting Calories? - Caveat Emptor*. Short paper presented at the Society for the Study of Ingestive Behavior Annual Meeting at the Meeting of The Eastern Psychological Association.
244. Allison, D. B., Silverstein, J. M., & Galante, V. (April, 1992). Relative Effectiveness and Cost-Effectiveness of Cooperative, Competitive, and Independent Monetary Incentive Systems for Improving Staff Performance. Paper presented to the Eastern Psychological Association.
245. Allison, D. B., & Heshka, S. (April, 1992). *Emotionality and Eating Among the Obese?: A Critique*. Paper presented to the Eastern Psychological Association.
246. Allison, D. B. (March, 1992). Upper versus Lower and Central versus Peripheral as Distinct Components of Body Fat Distribution. Paper presented to the Society for Behavioral Medicine.
247. Murphy, C. M., Babbitt, R. L., Allison, D. B., & Patterson, H. L. (March, 1992). The Prevalence and Characterization of Obesity Among Children with Developmental Disabilities Compared to Nondevelopmentally Disabled Controls. Paper presented to the Society for Behavioral Medicine.
248. Allison, D. B., & Franklin, R. D. (November, 1991). *The Readability of Three Measures of Dietary Restraint*. Paper presented at the annual meeting of the Association for the Advancement of Behavior Therapy.
249. Allison, D. B., Murphy, C. M., Babbitt, R. L., & Patterson, H. L. (October, 1991). *Adiposity Amongst The Mentally Retarded*. Paper presented at the annual conference of the American Association of University Affiliated Programs.
250. Franklin, R. D., Fisher, W. F., & Allison, D. B. (1991, August). *Reinforcer Assessment: A Twenty-Five Year Retrospective*. Paper presented to the American Psychological Association.
251. Franklin, R. D., & Allison, D. B. (1991, August). *Violent Crime and Substance Abuse Among North Carolina Prisoners, 1989*. Paper presented to the American Psychological Association.
252. Allison, D. B., & Franklin, R. D. (1991, June). *Opiate Peptides: Their Putative Role in the Pathogenesis and Treatment of Obesity*. Paper presented to the American Psychological Society.

253. Burke, J. B., Summers, J. A., Lynch, P. S., & Allison, D. B. (1991, June). *Treating a disrupted sleep phase disorder in a nine-year old boy with Angelman Syndrome*. Paper presented to the American Psychological Society.
254. Alfonso, V. C., Allison, D. B., & Dunn, G. M. (1991, June). *The Development of The Extended Satisfaction With Life Scale*. Paper presented at the first annual meeting of the American Association for Applied and Preventive Psychology, Washington, DC.
255. Allison, D. B., Burke, J. C., & Silverstein, J. M. (1991, May). *Scaling the Acceptability of Behavior Decelerative Procedures: Perceptions of Psychologists and Psychology Interns Working With Developmentally Disabled Persons*. Paper presented at the annual meeting of the Association for Behavior Analysis.
256. Allison, D. B. (1991, May). *Antecedent Exercise in the Treatment of Disruptive Behavior: A Meta-analytic Review*. Paper presented at the annual meeting of the Association for Behavior Analysis.
257. Allison, D. B., & Silverstein, J. M. (1991, May). *Scaling aversiveness of behavior decelerative procedures: Perceptions of staff working with developmentally disabled persons*. Paper presented to the American Academy on Mental Retardation.
258. Allison, D. B. (1991, April). *Four Paradigms, Five Procedures, and Three Purposes for Assessing The Stability of Cluster Analysis Solutions*. Paper presented at the Annual Meeting of the Eastern Psychological Association.
259. Allison, D. B., & Heshka, S. (1991, March). *Toward an Empirically Derived Typology of Obese Persons: Derivation in A Patient Population*. Paper presented to the Society for Behavioral Medicine.
260. Allison, D. B., & Heshka, S. (1991, March). *Toward an Empirically Derived Typology of Obese Persons: Replication in A Divergent Sample*. Paper presented to the Society for Behavioral Medicine.
261. Allison, D. B., & Gorman, B. S. (1991, February). *Calculating and Estimating Effect Sizes from Between Group, Within Group, and Single Case Designs for Meta-analysis*. Paper presented at the annual meeting of the American Association for the Advancement of Science, Washington DC.
262. Allison, D. B., & Franklin, R. D. (1991, February). *The Association Between Carbohydrate Craving and History of Depression and Anxiety: Support for Serotonergic Involvement*. Paper presented to the American Association for the Advancement of Science.
263. Allison, D. B., Basile, V. C., & McDonald, R. B. (1990, October). *The Comparative Effects of Antecedent Exercise and Lorazepam on Aggressive Behavior in an Autistic Man*. Paper presented at the meeting of the New England Psychological Association, Worcester, MA.
264. Allison, D. B. (1990, July). *Is OBM Needed in The Developmental Disabilities Field? Some Ongoing Research*. Invited address delivered at the Regional Symposium of the New York State Association for Behavior Analysis.
265. Allison, D. B., Lee, M. J., & Gorman, B. S. (1990, May). *Dimensionality of Punishment: Exploratory Inquiry into the Perceptions of Professionals Working with Disturbed Children*. Paper presented at the meeting of the Association for Behavior Analysis, Nashville, TN.
266. Allison, D. B., & Silverstein, J. M. (1990, May). *Quantifying Treatment Aversiveness: An Empirical Approach*. Paper presented at the meeting of the Association for Behavior Analysis, Nashville, TN.
267. Allison, D. B., & Silverstein, J. M. (1990, August). *Scaling Aversiveness of Decelerative Procedures*. Paper presented at the meeting of the American Psychological Association, Boston, MA.

268. Alfonso, V. C., Allison, D. B., & Dunn, G. M. (1990, February). *The Relationship Between Sexual Fantasy and Satisfaction: A Multidimensional Analysis of Gender Differences*. Paper presented to the American Association of Sex Educators, Counselors and Therapists, Arlington, VA.

Selected Classroom Teaching Experience

University of Alabama at Birmingham, Birmingham, AL
Professor 2014

Co-designed, co-led, and lectured in course on *Energetics: Scientific Foundations of Obesity and Other Health Aspects* UAB's School of Public Health with Dr. Emily Dhurandhar as co-director.

University of Alabama at Birmingham, Birmingham, AL
Professor 2007

Co-designed, co-led, and lectured in course on statistical methods for students enrolled in UAB's Howard Hughes Medical institute training program with Drs. Dimmit and Tiwari as co-directors.

St. John's University, Queens, NY
Adjunct Assistant Professor Jan. 1992 - June 1992

Taught graduate course in Multivariate Statistics for psychology Ph.D. candidates.

Hofstra University, Hempstead, NY
Adjunct Faculty Jan. 1990 - August 1990

Taught undergraduate courses in Social, Adolescent, and Introductory Psychology.

Nassau Community College, Garden City, NY
Adjunct Faculty May 1990 - July 1990

Taught undergraduate courses in Introductory Psychology.

St. John's University, Queens, NY
Adjunct Faculty Jan. 1990 - May 1990

Taught undergraduate course in Tests and Measures.

Clinical Experience

- PLUS Group Homes, Westbury, NY
Applied Behavior Specialist Aug. 1988 - April 1990
- Developed and implemented behavior modification programs for autistic/retarded adults living in residential units. Designed and implemented staff training and organizational behavior management systems. Initiated research program. Performed psychological evaluations.
- Astor Child Guidance Center, Bronx, NY
Intern Psychologist Sept. 1988 - Aug. 1989
- Provided group and individual therapy to severely emotionally disturbed children and their families in a day treatment hospital. Provided consultation to classroom teachers in the shaping of classroom behavior through operant procedures.
- Farmingdale School District, Farmingdale, NY
Intern Psychologist Sept. 1987 - June 1988
- Provided psychological and educational evaluations and counseling for elementary and junior high school students.
- Mercy Hospital Community Residence, Wantagh, NY
Mental Health Assistant Sept. 1987 - Aug. 1988
- Assisted out-patients with histories of major mental disorders in adapting to life outside a hospital, maintaining a home, and becoming integrated into the community.
- St. Francis Hospital, Roslyn, NY
Psychiatric Assistant Sept. 1986 - Oct. 1987
- Assisted psychiatric staff in providing care and therapy for adult in-patients with acute mental disorders.
- Blueberry Treatment Center, Brooklyn, NY
Child Care Worker July 1985 - Aug. 1986
- Responsible for primary care, counseling, and therapeutic intervention with severely disturbed children ages four to seventeen.
- Physician's Weight Loss Center, Hicksville, NY
Behavior Therapist Sept. 1985 - March 1986
- Provided group and individual counseling, behavior modification lectures, and psychological screenings for massively and morbidly obese adult outpatients.
- Lifeline Center For Child Development, Queens, NY
Substitute Teacher April 1986 - June 1986
- Assumed teacher responsibilities for emotionally disturbed children of various ages.

Continuing Education [Listing not kept current. Archival listing available in CV version 213]

EDITORIAL & REFEREEING EXPERIENCE

Editorships

Obesity & Nutrition Related Journals

- Statistical Editor for *International Journal of Obesity*, 2010 – present.
- Associate Editor of *Obesity*, 2007 – present.
- Associate Editor of *American Journal of Clinical Nutrition* (AJCN), 2013 – present.
- Regional Editor for the Americas for *Clinical Obesity*, 2010 – 2011, Editorial Board member, 2012 - present.
- Co-Specialty Chief Editor, *Frontiers in Nutrition Methodology*, 2013 – 2016.
- Associate Editor, *Surgery for Obesity and Related Diseases*, 2008 – present.
- Editorial Board Member for:
 - *American Journal of Clinical Nutrition*, 2003 - 2004.
 - *Advances in Nutrition and Food Technology*, 2014 - present
 - *Global Epidemic Obesity Journal*, 2013 – present.
 - *International Journal of Eating Disorders*, 1998 - 2005.
 - *International Journal of Obesity*, 2000 - 2006.
 - *ISRN Obesity*, 2012 - present.
 - *Journal of Diabetes Research and Clinical Metabolism*, 2011 – present.
 - *Journal of Obesity*, 2009 – 2013.
 - *Nutrients*, 2009 – 2011.
 - *Nutrition Today*, 1998 - present.
 - *Obesity Reviews*, 2000 - present.
 - *ISRN Nutrition*, 2012 – present.
- Honorary Editorial Board Member for *Journal of Nutrition and Dietary Supplements*, 2009 – 2015.
- Contributing Editor for *Nutrition Reviews*, 2002 – 2006.
- Co-edited special issue of *Nutrition* on Nutrigenomics, January, 2004.
- Guest Associate Editor for *Obesity*, 2007.

Genetic Journals

- Founding Editor-in-Chief (aka Field Chief Editor), *Frontiers in Genetics*, 2010 – 2017.
Frontiers in Genetics indexed in JCR and received its first **impact factor 3.789** in 2017.
Listed as Founding Field Chief Editor (emeritus), 2018 – present.
- Associate Editor for *PLOS Genetics*, 2005 – 2017, Consulting Editor 2017-2019.
- Associate Editor for *Behavior Genetics*, 2005 – 2011.
- Associate Editor of *Human Heredity*, 2002 – 2011.
- Editorial Advisory Board Member for *Recent Patents on DNA & Gene Sequences*, 2008 - 2011.
- Editorial Advisory Board member of *Behavior Genetics*, 2000 – 2005.
- Co-edited special issue of *Behavior Genetics* on the Genetics of Obesity, August, 1997.
- Co-edited special issue of *Human Heredity* on the Genetics and the Environment in Obesity, September 2013: <http://www.karger.com/Journal/Issue/261106>

Statistical Journals

- Associate Editor for *Computational Statistics and Data Analysis*, 2003 - 2011.
- Co-edited special issue of *Computational Statistics & Data Analysis* on Statistical Genetics, 2009.
- Co-edited special issue of *Statistics and Its Interface* on Statistical Genetics, 2011.

Other Journals

- Editorial Board Member. *Experimental Gerontology*, 2018 – present.
- Editorial Board Member. *AGE: The Official Journal of the American Aging Association* (renamed *GeroScience* in 2017), 2004 - present.
- Academic Editor for *PLoS One*, 2014 – 2016.
- Editorial Board Member for *European Journal of Clinical Investigation*, 2009 - present.
- Honorary Editorial Board Member: *Evidence-Based Preventive Medicine*, 2003 – present.
- Honorary Editorial Board Member for *Journal of Clinical Pharmacology: Advances and Applications*, 2009 - present.
- Editorial Board Member for *The Open Access Journal of Science and Technology*, 2012 – 2014.
- Associate Editor for *PeerJ*, 2012 – 2015.
- Special Issue Co-Editor for issue on “Perspectives in Aging: Mechanisms Nutritional Interventions” in *Experimental Gerontology*.

Journal & Book Reviewing

- *Acta Physiologica Scandinavica* – 1997.
- *American Journal of Clinical Nutrition* – 1997-1998, 2000, 2002-2003, 2007, 2009, 2011, 2013-2015.
- *American Journal of Epidemiology* – 1997-1999.
- *American Journal of Human Genetics* – 1997-2003.
- *American Journal of Medicine* – 1997-1998.
- *American Journal of Physiology* – 2000.
- *American Journal of Psychiatry* – 2000.
- *American Journal of Public Health* – 1994, 1999.
- *Annals of Epidemiology* – 2004.
- *Annals of Internal Medicine* – 1998-2001, 2003.
- *Appetite* - 1992, 1994, 1996.
- *Archives of Internal Medicine* – 2001.
- *Behavior Modification* - 1993-1994.
- *Behavior Genetics* – 1998-2001.
- *Behaviour Research and Therapy* - 1993.
- *Biometrics* – 2005-2006.
- *British Journal of Nutrition* – 2013 – 2014, 2017.
- *British Medical Journal (Open)* – 2011.
- *Children and Youth Services Review* - 1991.
- *Clinical Obesity* – 2011.
- *Computational Statistics & Data Analysis*, 2002-2004.
- *Current Developments in Nutrition*, 2018.
- *Current Medical Research & Opinion*, 2011.
- *Diabetes* – 2000.
- *Encyclopedia of Dietary Supplements*, 2004.
- *Ethnicity & Disease* – 2000.

- *F1000 Research Journal* – 2017.
- *Frontiers in Nutrition* – 2013.
- *Genetic Epidemiology* – 1996-1999.
- *Genetics* – 2000-2001.
- *Human Genetics* – 2009.
- *Human Heredity* – 1999-2004.
- *Human Molecular Genetics* – 1997-1998.
- *International Journal of Body Composition Research* – 2007.
- *International Journal of Eating Disorders* - 1995-2001, 2003.
- *International Journal of Obesity* - 1992-2005, 2009, 2011-2015.
- *Journal of the American Medical Association* – 1998-2019.
- *Journal of the American Statistical Association* – 2006.
- *Journal of Applied Behavior Analysis* - 1991, 1996.
- *Journal of Applied Physiology* - 1994-1997.
- *Journal of Clinical Epidemiology*, 2000.
- *Journal of Clinical Endocrinology & Metabolism* – 1996, 1998.
- *Journal of Clinical Psychiatry* – 2000, 2006.
- *Journal of Consulting and Clinical Psychology* - 1992.
- *Journal of Gerontology* – 1998-1999.
- *Journal of Nutrition Education* - 1994.
- *Journal of Pediatrics*, 2002.
- *Lancet*, 2012
- *Measurement and Evaluation in Counseling and Development* - 1992.
- *Medicine and Science in Sports & Exercise* – 1995-1997.
- *Nature* – 2004, 2014.
- *Nature Biotechnology* – 2009-2011.
- *Nature Cell Biology* – 2004-2005.
- *Nature Communications* – 2011-2012.
- *Nature Genetics* – 2003-2007.
- *Nature Medicine* – 2016.
- *Nature Methods* – 2009-2010.
- *Nature Reviews Disease Primers* – 2017.
- *Neuropsychiatric Genetics* – 2004.
- *New England Journal of Medicine*, 2008-2010, 2012, 2015, 2016.
- *Obesity Facts* - 2010
- *Obesity Research [now Obesity]* - 1994-2001, 2004, 2006.
- *Obesity Reviews* – 2000 – 2004, 2009-2014.
- *Perceptual & Motor Skills/Psychological Reports* – 1991, 1997.
- *Physiological Genomics* – 2000, 2003.
- *PLoS Genetics* – 2005-2006.
- *PLoS One* – 2007, 2009.
- *Proceedings of the National Academy of Sciences* – 2004, 2007, 2009, 2015, 2017.
- *Psychological Assessment* - 1992.
- *Psychological Bulletin* – 1994.
- *Psychological Methods* – 1997-2001.
- *Science* – 2003-2007, 2012, 2014, 2016, 2018.
- *Science Translational Medicine* – 2014, 2015.
- *Surgery for Obesity and Related Disorders (SOARD)* – 2006, 2007.
- *Statistics in Medicine* – 2005-2006.

Grant, Conference, & Other Reviewing (selected)

- **1990.** Served on Selection Committee for television entries for the American Association for the Advancement of Science - Westinghouse Science Journalism 1990 Awards.
- **1992.** Proposal Reviewer for the American Psychological Society's 1992 Convention.
- **1992.** Reviewer of grants-in-aid proposals for the Organizational Behavior Management Network's small grants program, 1992.
- **1993-1995.** Book proposal reviewer for American Psychological Association (1993) and Lawrence Erlbaum Publishers (1994), and Johns Hopkins press (1995).
- **1994.** Proposal Reviewer for the American Psychological Association's 1994 Convention (Division 5) and 1998 convention (Division 38).
- **1995.** Grant reviewer for the University of Colorado's Center for Research in Clinical Nutrition's Pilot and Feasibility Program (1995).
- **1995-2000.** Grant reviewer for the New York Obesity Research Center's Pilot and Feasibility Program (1995; 1999, 2000);
- **1995-2000.** Grant reviewer for the Wellcome Trust (1995, 1998, 2000);
- **1996.** Proposal Reviewer for the Society of Epidemiological Research Convention, 1996.
- **1997-1998.** Grant reviewer for the United Soybean Board (1997-1998);
- **1999 – 2017.** Chair of the United Soybean Board's grant review committee 1999 – 2017.
- **1999.** Grant reviewer for the Austrian *Fonds zur Förderung der wissenschaftlichen Forschung* (1999).
- **1999-2002.** Grant reviewer for the International Life Sciences Institute Future Leader's Award (1999 - 2002)
- **2000.** Ad hoc reviewer for **NIH** Cardiovascular Disease Study Section (2000).
- **2000.** Ad hoc reviewer for **NIH** Nutrition Study Section (2000).
- **2000.** Grant reviewer for the Wellcome Trust & Juvenile Diabetes Foundation Joint Funding Program (2000).
- **2001 – 2002.** Grant reviewer for the University of Alabama at Birmingham's Clinical Nutrition Research Center pilot & feasibility grants program (2001 - 2006).
- **2001.** Special Study Section Reviewer for National Institute of Aging RFA on Caloric Restriction studies. August, 2001.
- **2002.** Grant reviewer for Genome Canada, a not-for-profit corporation established through funding from the federal government of Canada (2002).
- **2002-2005.** Grant reviewer for the University of Alabama at Birmingham's Comprehensive Cancer Center pilot & feasibility grants program (2002 - 2005).
- **2003-2005.** Reviewer for UCLA's Clinical Nutrition Research Unit's pilot & feasibility grants program (2003 – 2005).
- **2004.** Ad hoc reviewer for the NIH Look AHEAD study's ancillary projects program (2004).
- **2004.** Grant proposal reviewer for National Science Foundation CAREER proposal.
- **2004.** Grant proposal reviewer for National Science Foundation *FIBR* proposal, 2004.
- **2004.** Reviewer for the University of South Carolina's intramural research promotion grants (2004).
- **2004-2005.** Special Emphasis Panel reviewer for National Institutes of Health (ZMH1-NRB-G-12 and ZMH1-ERB-P) for applications proposing Schizophrenia Treatments and Treatment Related to Aging, 2004 and 2005.
- **2005.** Ad hoc reviewer for **NIH** Endocrinology, Metabolism, Nutrition and Reproductive Sciences IRG (2005).
- **2008.** Evaluator/Reviewer for National Award Program for Creativity – 2008.
- **2009.** Chair of NIH (NIDDK) Special Study Section for R24 grant review 11/16/2009.
- **2009.** Grant reviewer for t Clinton Foundation and the Solae Company for proposals to develop novel ready to use therapeutic foods for developing countries - 2009.
- **2009.** Grant reviewer for UAB's Minority Health Research Center – 2009.
- **2009.** Reviewer for National Institutes of Health Challenge Grants - June, 2009.

- **2010.** Ad hoc reviewer for NIH's Bioengineering Sciences and Technology Integrated Review Group for the National Centers for Biomedical Computing (NCBC), 2010.
- **2010.** Ad hoc statistical reviewer/advisor to the Molecular Genetics B Study Section [MGB], 2010, National Institutes of Health
- **2010.** Grant proposal reviewer for National Science Foundation regular grant 2010.
- **2011.** Evaluator/Reviewer for National Award Program for Creativity – 2011.
- **2012.** Peer Reviewer for Croucher Foundation, Hong Kong.
- **2012.** Nominator for National Award Program for Creativity.
- **2012.** Evaluator/Reviewer for National Award Program for Creativity – 2012.
- **2012.** Reviewer for NIH Pioneer Award applications.
- **2013.** Reviewer for NIH Loan Repayment Plan applications.
- **2014.** Reviewer for NIH Pioneer grant applications.
- **2015.** Abstract reviewer for the Gerontological Society of America's 68th Annual Scientific Meeting.
- **2015.** Served as grant reviewer for The Leverhulme Trust of the United Kingdom.
- **2015.** Served on the Presidential Awards for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM) National Selection Review Panel of the National Science Foundation.
- **2015.** Abstract reviewer for The Gerontological Society of America.
- **2015.** Reviewer for an analysis and research management support report to be published by the National Center for Education Research.
- **2015.** Served on Grant Review Panel for U.S. Department of Education, Institute of Education Sciences.
- **2016.** Served on Grant Review Panel for U.S. Department of Education, Institute of Education Sciences.
- **2016.** Grant reviewer for the Centers for Disease Control and Prevention (CDC).
- **2016.** Grant reviewer for ZonMw – The Netherlands Organisation for Health Research and Development.
- **2017.** Reviewer of grant proposals for the Laura and John Arnold Foundation.
- **2017.** Reviewer of intramural research program for NIH (NIDDK) investigator(s).
- **2017.** Reviewer for the Evidence-based Practice Center Evidence-based Practice Center Program of the U.S. Agency for Health Research and Quality.
- **2017.** Reviewer of Fostering Responsible Research Practices for The Netherlands Organisation for Health Research and Development.
- **2018** Reviewer for AHRQ Evidence-based Practice Center Program: comments on "Methods for Evaluating Natural Experiments in Obesity: A Systematic Evidence Review"

INTRAMURAL COMMITTEE & SERVICE WORK (**selected**)

- Member of Indiana University Advisory Board of the Institute for Advanced Study (IAS), July 1, 2019 – June 30, 2022.
- Member Indiana University School of Medicine's Center for Diabetes and Metabolic Diseases (CDMD) in the Nutrition and Physiology of Obesity interest group
- Internal Advisory Committee (IAC) member for Indiana University Developmental Center for AIDS Research (D-CFAR) August 2018 application submission
- Member of University-wide Council for Innovation and Entrepreneurship. The overarching purpose for the Council is to ensure that UAB continues to cultivate a campus-wide entrepreneurial spirit among students, faculty and staff that builds upon past successes and creates opportunities that will profoundly impact UAB, Birmingham, Alabama and beyond, 2017 - 2017.
- Member of University-wide committee to develop integrated plan for training in responsible conduct of research for all students in UAB from undergraduate through post-doctoral, 2016 - 2017.

- Co-Chair of Intellectual Property and Tech Transfer Committee of the UAB Council of Center Directors, 2017 – 2017.
- Member of Dean of Graduate School's University Wide Committee to Determine Policies for Distributing Graduate Fellowships, 2017.
- Chair of School of Health Professions Committee on Enhancing Statistical Support and Teaching within the school, 2017.
- Member of UAB School of Public Health Diversity Committee, 2015 – 2016.
- Chair of UAB School of Public Health Committee to Increase Enrollment in Masters Programs, 2005 – 2006.
- Chair of UAB School of Public Health Research Advisory Council, 2005 – 2016.
- Chair of UAB's Council of Center Directors – Chair in 2010, Chair-Elect in 2009.
- Member of Search Committee for UAB's Comprehensive Diabetes Center Director, 2009 - 2010.
- Co-Director, Genetic Core of Minority Health and Research Center, 2002 - 2005.
- Member of committee to review applications for University-Professors (a special honorific designation within UAB) - 2008.
- Member of internal advisory committee for Dr. Suzanne Oparil's post-doctoral training program in CVD biology.
- Member of Search Committee for Comprehensive Cancer Center Director, 2005-2007.
- Member of Search Committee for Department of Epidemiology faculty, 2004 - 2005.
- Member of Search Committee for UAB's Associate Dean for Postdoctoral Education, 2006 -2007.
- Member of Search Committee for UAB's Comprehensive Cancer Center Director, 2005 - 2007.
- Member of Search Committee for UAB's Department of Nutrition Sciences Department Chair, 2001-2002.
- Member of Search Committee for UAB's Department of Nutrition Sciences Endowed Webb Chair, 2008 - 2009.
- Member of Search Committee for UAB's Department of Nutrition Sciences, 2003-2004.
- Member of Search Committee for UAB's School of Public Health Associate Dean, 2003 – 2004.
- Member of the Executive committee of the Center for Nutrient Genome Interaction, 2003 - 2009.
- Member of the Executive committee of the Heflin Center for Human Genetics, 2002 - 2005.
- Member of the Leadership Committee of the NIH-Funded Diabetes Research and Training Center, 2008 - 2017.
- Member of the Steering Committee of the UAB Comprehensive Diabetes Center, 2008 - 2017.
- Member of the UAB School of Public Health Faculty Affairs Committee, 2001 - 2003.
- Member of UAB University-Wide Office of Grants & Contracts Oversight Committee, 2003 - 2005.
- Member of UAB's Comprehensive Cancer Center Institutional Research Grant Committee, 2001 – 2004.
- Member of UAB's University-Wide Research Advisory Group, 2005 – 2017.

ORGANIZATIONAL AFFILIATIONS & APPOINTMENTS

- Academy of Behavioral Medicine Research, 2017 - present.
- American Aging Association, 2015 - present
- Association for Advancement of Behavior Therapy (AABT).
- American Association for the Advancement of Science (AAAS), 1989 – present.

- Elected as Fellow, 2009.
- American College of Nutrition, Elected as Fellow, 2006.
- American Diabetes Association (ADA)
- American Heart Association (AHA), 2006 – Present
 - Elected fellow 2015.
 - Silver Heart Member, 2017 – present.
- American Psychological Association (APA)
 - Member of Division 38 - Health Psychology
 - Member of Division 5 - Measurement & Statistics
- American Public Health Association (APHA)
 - Appointed the 1st American Public Health Association (APHA) Ethics SPIG Nominations Chair in 2014 - 2016.
- American Society for Human Genetics (ASHG)
- American Society of Nutrition (ASN) (formerly American Society for Clinical Nutrition (ASCN))
 - Elected Member of Nominating Committee, 2003.
 - Member of Education/Mentoring awards nominating committee – 2008-2009
 - Member of Graduate & Continuing Education Committee – 2008-2009.
 - Member of the Public Policy/Public Information Awards Nominating Committee for 2010.
 - Elected to the Nutritional Sciences Council's Executive committee as NSC *Human Nutrition Representative*, 2013. Term: June 2013 through May 2015.
 - Elected as Chair Elect of Obesity Research Interest Section, 2014.
 - Appointed to serve as a member of the 2016 Gilbert A. Leveille Award and Lectureship Jury. This is a joint award administered by IFT and the American Society for Nutrition.
 - Appointed to Serve on Open Access Journal Search Committee for founding editor in chief, 2015-2016.
 - Appointed to serve on search committee for 2016 Atwater Award Lecturer.
- **American Statistical Association (ASA)**
 - Member of the executive board of the New York Metropolitan chapter of the American Statistical Association - 1995 to 1999.
 - Elected as Fellow, 2007.
- Association for Women in Science (AWIS)
- Behavior Genetics Association (BGA)
- Classification Society of North America (CSNA)
- Committee for Skeptical Inquiry – 2014 to Present
- Eastern Psychological Association (EPA) – membership not current.
- Gerontological Society of America (GSA)
- Human Genome Organization - (HUGO)
- Biometric Society - Eastern North American Region (ENAR)
- Institute of Food Technologists (IFT) – 2017 – present.
- Institute for Mathematical Statistics (IMS)
- National Academy of Medicine (NAM) [formerly Institute of Medicine (IOM)]
 - Elected to membership in 2012
- Mathematical Association of America (MAA)
- New York Academy of Science (NYAS)

- NIDDK Network of Minority Health Research Investigators (NMRI), 2014 - present.
- Obesity Action Coalition (OAC) – 2015 – Present.
- The Obesity Society (formerly NAASO)
 - Chair of Public Relations subcommittee to develop *Media Guide to Contact People and Consultants* ~1992.
 - Member of Publications Committee October 1996 - 1997.
 - Elected Member of Nominations Committee 1996 – 1997.
 - Elected to NAASO Council May, 1995. Served on council from October 1995 through August, 1998.
 - Elected as Secretary/Treasurer of NAASO August, 1998. Served from August 1998 through October, 2001.
 - Served on a special Public Affairs Task Force to provide information regarding dietary supplements for weight loss to the U.S. General Accounting Office (GAO) – 2002.
 - Track co-leader for the Population Studies track of the 2003, 2004, and 2005 annual meetings.
 - Elected Member of Nominations Committee 2005-2006.
 - Elected and served as Vice President 2006-2007.
- Royal Society of Medicine – Admitted as Overseas Fellow, 2017.
- Society of Behavioral Medicine (SBM).
- Society for Epidemiologic Research (SER)
- Society for Nutrition Education and Behavior (SNEB), 2017 - present.
- Society for Public Health Education (SOPHE)
- Society for the Study of Ingestive Behavior (SSIB)
- TED – Ideas Worth Spreading (TED)

CONFERENCE & WORKSHOP ORGANIZATION

- Organized an international Advanced Research Workshop (\approx 150 participants) sponsored by the North Atlantic Treaty Organization (NATO) and the National Institute of Diabetes Digestive & Kidney Diseases, *Obesity Treatment: Establishing Goals, Improving Outcomes, and Reviewing the Research Agenda*, held June 3-5, 1993.
- Chair (with F. Xavier Pi-Sunyer) of a two-day meeting (\approx 200 participants) sponsored by the American Association for the Advancement of Science (AAAS), *Current Status of Scientific and Clinical Progress in Human Obesity* in February, 1993.
- Chaired organizing committee for the NAASO-sponsored and NIDDK-funded conference (\approx 120 participants) *Advancing the Genetics of Obesity: Strategies & Methods*, 1997.
- Co-Chair with David Harrison of Genetics Committee of National Institute of Aging Conference on Application of Caloric Restriction Research to Humans, March, 1999.
- Elected Vice-Chair (with Michael Jensen, Chair) of 2001 FASEB summer conference on *Obesity & Energy Metabolism*.
- Vice Chair of the year 2000 annual meeting of the International Life Sciences Institute (ILSI) and Chair of the year 2001 annual ILSI meeting.
- Serve on the International Advisory Committee for the 2002 9th International Congress on Obesity in Brazil as the "International Expert" for the Track on *Genetics Of Obesity*.
- Chair (with Drs. Arlen Price and Anthony Comuzzie) of the first meeting for a putative consortium of human obesity gene mappers titled '*Adi-Map' Obesity Gene Mapping Collaborative Project: Are we ready?* Sponsored by the National Institute of Diabetes Digestive, and Kidney Diseases, July 14, 2000.
- Co-Leader (with June Stevens and Anthony Comuzzie) of Population Studies & Public Health Track of the 2003, 2004, and 2005 annual meetings of the North American Association for the Study of Obesity.
- With Dr. Jose Fernandez in the lead, I organized a 1-day workshop on UAB's campus regarding genetic admixture studies (see: <http://mhrc.dopm.uab.edu/MHRC%20Genetic%20Admixture%20Workshop.pdf>).
- Primary organizer and PI of NIH R13 grant for 2-day conference on *Design, Analysis, Interpretation of Randomized Clinical Trials In Obesity* held in Newark, NJ, Dec 4-5, 2006. For details, see: <http://main.uab.edu/Shrp/Default.aspx?pid=97738>.
- Primary organizer and host of NIH (NIA) sponsored 2-day workshop on *Statistical Methods for Longitudinal Data on Aging Workshop* held in Bethesda, Maryland, June 13-14, 2007.
- Primary organizer and PI of NIH R13 grant for 2-day conference on *Body Weight, Adiposity, Energetics, and Longevity* held on St. Simons Island, Nov 29-30, 2007. For details, see: <http://main.uab.edu/Shrp/Default.aspx?pid=100248>
- Principal UAB organizer of 3-day 2nd annual Southern Obesity Summit held in Birmingham, AL, Nov 9-11, 2008. For details, see: <http://www.southernobesitysummit.org/>.
- Member of committee on statistics for World Congress on Genetics Applied to Livestock Production (WCGALP), 2012-2013.

MENTORSHIP ACTIVITIES (selected; see also *leadership activities section*)

- Mentored High School Student attending John F. Kennedy High School in Bellmore, New York on obesity research project through school's *Advanced Science Research* program: 2014.
- Mentored High School Student on Girls Scout Gold Award project involving obesity and nutrition, 2015.
- Mentor for American Heart Association Minority Mentoring Program, 2009 - present.
- Selected as a mentor for the Mentored Experiences in Research, Instruction, and Teaching (MERIT) Program, an NIH-funded Institutional Research and Academic Career Development Award (K12) from the Division of Minority Opportunities in Research (MORE) at NIGMS. It is facilitated through the partnership of UAB, Miles College (Fairfield, AL), and Stillman College (Tuscaloosa, AL). The primary goal of the MERIT Program is to provide postdoctoral scholars with outstanding research and teaching experiences while improving the recruitment of underrepresented minorities into the field of biomedical research, 2010-2017.
- Served on Doctoral Dissertation Committees for students at UAB, Columbia University Teachers' College, Hofstra University, Rutgers University.
- Master's thesis advisor to Masters students at Columbia University and New York University.
- Pre-examiner for doctoral dissertation of Minna Oman from the University of Helsinki, 2001.
- Scientist participant in *Science-By-Mail*, a science correspondence program with fourth grade children, 1992-93
- Mentor in New York Academy of Science's summer student internship program, 1992-1998. Co-Mentor, 1999-2001. Supervised high school students in research projects.
- Supervise/mentor high school interns from LaGuardia High School for Gifted Students, 1994-1996.
- Supervise/provide research experience to numerous masters and Ph.D. students from Fordham University.
- Internship supervisor of doctoral student in health psychology from Ferkauf College at Albert Einstein College of Medicine, 1995-1996.
- A UAB post-doctoral fellow I have helped, Dr. Xuxia Wu, won an award for our collaborative work: Wu X, Wang J, Allison DB, Garvey WT. (2004) Muscle response to insulin is impaired in diabetic humans, in association with a defect in signaling pathway. Presented at the University of Alabama at Birmingham's 2004 Annual Center on Aging Meeting in September. UAB Center of Aging Abstract Winner.
- UAB Dept of Medicine Junior Faculty Mentoring Program led by Lisa M. Guay-Woodford, M.D., Director, Division of Genetic and Translational Medicine. As of Spring 2007, serving as one of three Scholar Advisory Committee (SAC) members for John Hartman MD, Asst Prof of Genetics, 2007 – 2010.
- Mentor for the NHLBI eMentoring Initiative, 2010 – present.
- Registered Mentor for the National Alliance for Doctoral Studies in the Mathematical Sciences, an alliance between a group of proven mentors in math sciences departments at several Ph.D. and master's granting universities together with mentors at math science departments at colleges and universities which serve a substantial number of underrepresented undergraduate students, 2009 - Present.
- As community service, serve as advisor to one Girl Scout going for Girl Scout Gold Award with a nutrition and health project, 2014.

A (non-exhaustive) Listing of Individuals Mentored Appears Below:

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
High School Students				
Angelique Fournier	Social & Ethnic Influences on Obesity	NY Academy of Science Summer Internship program for Gifted High School Students	1992	One peer-reviewed paper.
Orlando Valazco	Estimating weight loss success.		1993	Completion of high school and entry into college.
Rachel Weber	Estimating weight loss success.		1993	
Denise Sanchez	Obesity & Mortality Rates		1995	
Diana Townsend-Butterworth	Obesity & Mortality Rates		1997	One peer-reviewed paper. Completed B.A. at Harvard University and MBA at University of Pennsylvania.
Adwoa Dadzie	Obesity & Mortality Rates		1998	Completed Bachelor's at Trinity College and Master's at NYU. Currently employed by Nestle.
Jessica Singleton	Alternative Medicine & Obesity		1999	Completed bachelor's in honors cognitive neuroscience program at Harvard. Currently research assistant at Columbia University.
Kristen Jozkowski ²	Genetics of Food Intake		2000	Participant and finalist in several high school science fairs. Regional finalist in the U.S. Intel "Science and Engineering" Competition. Endowed Full Professor at Indiana University Bloomington School of Public Health.
Stella David	Nutrition education in disadvantaged youths.	Girl Scouts Gold Award	2015	High School student.
Undergraduate Students				
Meredyth Kravitz	Obesity and self-esteem	Undergraduate Summer Volunteer	1997	One peer-reviewed paper; Obtained PsyD degree from Albert Einstein-Yeshiva University. Currently psychologist at the Manhattan Learning Center of the Jewish Board of Family and Children's Services.
Judy Liu	General Research	Student Assistant	1996	Adjunct faculty at Florida Institute of Technology. Teaches Medical Ethics. Currently Director, Marketing at GlaxoSmithKline
Ankur Moondan	Statistical Methods for Power Analysis	Summer Intern from India	2008	One peer-reviewed paper published.
Giulianna Murati	Obesity and Genetics	Minority summer intern collaboration with University of Puerto Rico	2009	One peer-reviewed paper published. As of 2013, attending Ross University School of Veterinary Medicine.
Post-Baccalaureate Students				
Elizabeth Manibay	Obesity	Ph.D. program in Psychology at CUNY Baruch College	1996	One paper published in peer-reviewed journal; Received NIH minority supplement grant. Currently Managing Director, Business Consulting at Charles Schwab Advisor Services.
Ming Infante	Statistical Genetics and obesity	Post-baccalaureate pre-med program, Columbia University	1998 – 1999	Three peer-reviewed papers. Currently getting Executive Master's at Cranfield University.

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
Nathaniel Berman	Pediatric Obesity	Pre-Med program, Columbia University	1998 – 1999	One peer-reviewed paper in <i>Pediatrics</i> . Currently Assistant Professor in Medicine, Weill Cornell Medical College.
Master's Students				
Dennis Sepulveda	Obesity in Down Syndrome	Master's Program at Columbia in Nutrition	1993	Two published papers. Received award for outstanding achievement by employee of Sanofi Pharmaceuticals.
Jennifer L. Kraker	Meal Replacement formulae for obesity treatment.		2000 – 2001	Two papers published. Winner of 2005 scholarship from the American Society of Clinical Nutrition for an internship in nutrition and medicine. Completed MD training. Currently practicing psychiatrist.
Paula Iocova	Obesity	Extern from Psychology Master's program at Fordham University	1995 – 1996	Successful application to Ph.D. program.
Tapan Mehta	Analysis of microarray data.	M.S. Student in Engineering at UAB. Now PhD mentoree at UAB.	2002 – 2013	Many papers published. Winner of multiple Young Investigator awards. Assistant professor (Tenure Earning), School of Health Professions, at UAB. Inducted into the DELTA OMEGA Honorary Society in Public Health, Upsilon Chapter
Doctoral Students				
Hansen Bannerman-Thompson	Microarray analysis by support vector machines.	Graduate Intern (Ph.D. candidate at N. Dakota State U.)	Summer 2000	University of Cincinnati Post-Doc, Environmental Health
Eva Gropp	Obesity & Genetics	Medical Student/Visiting Scholar from Germany	2000 – 2001	Several papers published. Currently post-doctoral fellow at Institute for Genetics, University of Cologne.
Janet Mentore (Lee)	Obesity	Extern from Psychology Ph.D. program at Fordham University	1996 – 1997	Three peer-reviewed papers. Currently psychologist and published children's book author.
Susan Tennant	Obesity		1998	Completed PhD. Practicing Psychologist.
Julie Nathan	Obesity	Extern from Psychology Ph.D. program at Fordham University	1996 – 1997	Four published papers. Completed PhD. Practicing psychologist.
Chenxi Wang	Statistical methods for studying the relation between obesity and mortality.	Ph.D Student in Nutrition Sciences, UAB	2001 – 2004	Multiple published papers. Won Samuel L. Barker Award for Best Graduate Student at UAB in 2004, given to one and only one student in entire university per year. Currently Assistant professor of Nutrition, University of Louisville.
Scott W. Keith, Ph.D.	Statistical methods for studying obesity and mortality rate.	UAB Ph.D. Program in Biostatistics. Supported by NHLBI T32.	2004 – 2008	Many papers published and awards won. Assistant Professor, Biostatistics, Thomas Jefferson University.
Matt Giddings	Hormetic effects of caloric restriction on lifespan	Psychology at UAB	2007 – 2011	Received \$10,000 grant as PI from the Alzheimer's of Central Alabama to study nutritional influences on the progression of Alzheimer's disease in a mouse model.

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
Tiffany Cox, PhD, MPH	Design issues in obesity treatment trials	Epidemiology program at UAB	2009 – 2011	Assistant Professor, UAB Division of Preventive Medicine.
Molly Bernhard	Ambient temperature and food intake in humans.	Environmental Health Sciences PhD program at UAB	2013 - 2017	UAB Pre-doctoral Fellow NIH T32HL105349
Henry Robertson. Ph.D.	Statistical methods for studying longevity.	Biostatistics PhD program at UAB	2008 - 2011	Scientist, Seton Health Care
Tapan Mehta, Ph.D.	Statistical methods for studying BMI and mortality.	Biostatistics PhD program at UAB	2011 - 2013	Assistant Professor, Dept of Physical Therapy, University of Alabama at Birmingham
Daniella Chusyd	Energy expenditure and body composition in animal models. Co-mentored with Tim Nagy.	Nutrition PhD program at UAB	2013 - 2017	UAB Pre-doctoral Fellow NIH T32HL105349. Received PI grant from Eppley Foundation, a second co-PI grant from the Smithsonian, and a diversity supplement from the NIA.
Jennifer Davis	Exploring impact of a high fat diet on circadian rhythms of glycogen synthase kinase 3 (GSK3) on learning and memory. Co-mentored with Karen Gamble	Genetics, Genomics, and Bioinformatics PhD program at UAB	2014 - 2017	UAB Pre-doctoral Fellow NIH T32HL105349.
Luis Mestre	Biostatistics and obesity.	Epidemiology and Biostatistics PHD program at IU	2017 - Present	
Post-Doctoral Fellows				
Myles S. Faith, Ph.D.	Behavioral genetics of obesity.	Post-Doctoral Fellow	1995 – 1998	Professor and Associate Chair of the Department of Counseling, School, and Educational Psychology, University at Buffalo. Many papers and NIH grants as PI.
Angelo Pietrobelli ³ , M.D.	Pediatric obesity & Body Composition.	Post-Doctoral Fellow (from Italy)	1995 – 1998	Faculty Investigator, Verona University Medical School. Many papers published. Assoc editor of obesity journals.
Moonseong Heo, Ph.D.	Statistical methods in obesity research.	Post-Doctoral Fellow	1996 – 1999	Professor, Albert Einstein College of Medicine of Yeshiva University & Montefiore Medical Center. Numerous papers published.
Raffaella Zannolli, M.D.	Epidemiological studies in obesity.	Post-Doctoral Fellow (from Italy)	1998 – 1999	Multiple peer-reviewed papers. University of Siena, Assistant Professor.
Jose Fernandez, Ph.D.	Statistical genetics applied to obesity.	Post-Doctoral Fellow	1999 – 2001	Many papers published. Professor and Vice Chair, UAB Dept of Nutrition Sciences. NIH R01 funding as PI.
Daniel Hoffman ⁴ , Ph.D.	Body composition.	Post-Doctoral Fellow	1999 – 2001	Many papers published. Associate Professor, Dept. of Nutritional Sciences, Rutgers University.
James (Yong-woo) Park ⁵ , M.D.	Body composition.	Post-Doctoral Fellow (from Korea)	2000 – 2001	Many papers published. Professor, Sungkyunkwan University School of Medicine.

³ Jointly mentored with Steven Heymsfield.

⁴ Jointly mentored with Steven Heymsfield.

⁵ Jointly mentored with Dymrna Gallagher.

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
Shankuan Zhu, M.D., Ph.D.	Body composition & mortality rates.	Post-Doctoral Fellow	2000 – 2001	Many papers published. Professor & Executive Dean Zhejiang University, School of Public Health, PR China. NIH R01 funding as PI.
Jacob Pieter Laurens Brand PhD.	Statistical analysis of microarray data through computer intensive methods.	Post-Doctoral Fellow	2001 – 2003	Multiple papers published. Biostatistician, The EMMES Corporation.
Mark Cope, Ph.D.	Pharmacogenomics of Anti-Psychotic Induced Weight Gain: Rodent Models.	Post-Doctoral Fellow	2001 – 2006	Nutrition Research Scientist, Dupont.
Dongyan Yang, M.D., M.S.	Statistical Genetics.	Post-Doctoral Fellow	2002 – 2003	Assistant Professor, University of Louisville, Dept of Epidemiology and Population Health.
Jode Edwards, Ph.D.	Statistical analysis of microarray data.	Post-Doc (T32)	2002 – 2004	Research Geneticist USDA ARS and Faculty Iowa State University.
Stanislav Zakharkin, Ph.D.	Statistical analysis of genetic data	Post-Doc (T32)	2002 – 2005	Scientist at Kraft North America.
Siham Elamin, DVM	Genetic Epidemiology	Post-Doctoral Fellow	2003 – 2004	Veterinary Medical Officer, USDA/APHIS/VS.
Kyoungmi, Kim, Ph.D.	Statistical genetics.	Post-Doctoral Fellow	2003 – 2005	Associate Professor, University of CA–Davis.
Solomon Musani, Ph.D.	Statistical genetics of Obesity	Post-Doc (T32)	2003 – 2005	Assistant Professor, University of Mississippi Medical Center.
Laura Kelly Vaughan, Ph.D.	Statistical Genetics of Obesity	Post-Doc (T32)	2005 – 2008	Assistant Professor of Biology College of Arts and Sciences King University
Daniel Shriner ⁶ , Ph.D.	Statistical Genetics of Obesity	Post-Doc (T32)	2005 –	NIH Staff Scientist, Center for Research on Genomics and Global Health
David Brock, Ph.D.	Obesity	Post-Doc (T32)	2006 – 2007	Associate Professor of Exercise Physiology, University of Vermont
Mai Eloheid, Ph.D.	Obesity	Post-Doc (T32)	2006 – 2008	Researcher, King Saud University
Marcus Guyton, Ph.D.	Obesity	Post-Doc (T32)	2006 – 2008	Unknown
Daniel Smith PhD	Caloric Restriction and Longevity	Post-Doc (T32)	2007 – 2010	Assistant Professor, Dept of Nutrition Sciences, UAB; PI of grant from the Ellison Foundation.
Stephen Erickson, Ph.D.	Statistical Genetics	Post-Doc (T32)	2006 – 2009	Assistant Professor, University of Arkansas Med. Sciences
Nicholas Pajewski, Ph.D.	Statistical Genetics	Post-Doc (T32)	2008 – 2010	Assistant Professor, Wake Forest University SOM
Gustavo de los Campos, PhD	Statistical Genetics	Post-Doc	2009-2011	Associate Professor of Epidemiology and Biostatistics, Michigan State University. Two R01s as PI. Many published papers.
Yann Klimentidis, Ph.D.	Genetics of Obesity Phenotypes	Post-Doc (T32)	2009 – 2011	Assistant Professor, University of Arizona. K-award and R01 as PI.

⁶ Jointly mentored with Nengjun Yi.

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
Kathryn Kaiser, Ph.D.	Design issues in obesity treatment trials	Post-Doc (T32)	2009 – 2011	Assistant Professor, UAB SOPH
Katherine Ingram, Ph.D.	Design issues in obesity treatment trials	Post-Doc (T32)	2009 – 2011	Assistant Professor, Department of Exercise Science and Sport Management, Kennesaw State University
Kirk Williams, Ph.D.	Genetic methods in obesity research	Post-Doc (T32)	2009 – 2011	Investigator, FDA
Ana Inés Vázquez, Ph.D.	Obesity, genes, and cancer	Post-Doctoral Fellow	2010 – 2012	Assistant Professor of Epidemiology and Biostatistics, Michigan State University
Henry Robertson, Ph.D.	High-dimensional Survival analysis	Statistician, Seton Healthcare Family	2011 – 2012	Statistician, Seton Healthcare Family
Emily Dhurandhar, Ph.D.	Effects on Ad36 on glucose metabolism in cell culture models	Post-Doc (T32)	2011 – 2014	Assistant professor, Texas Tech University.
Andrew Brown, Ph.D.	Investigation and promotion of research reporting integrity in obesity research.	Post-Doc (T32)	2012 – 2014	Winner of American Society of Nutrition Young Investigator Award. NIH R25 as PI. Scientist II at UAB.
Jacqueline Harris, Ph.D.	Genetics and health disparities.	Post-Doc (T32)	2011 – 2013	Assistant Professor at Grambling State University
John Dawson, Ph.D.	Statistical genetics of obesity.	Post-Doc (T32)	2012 – 2014	Assistant Professor, Dept of Nutrition, Texas Tech University
Dwight Lewis, Ph.D.	cardio-metabolic risk among overweight and obese African American males	Post-Doc (T32)	2012 – 2014	Assistant Research Analyst, University of Alabama (Tuscaloosa)
Aaron (Davis) Fobian, PhD	Assess the effects of increased sleep duration in overweight and obese adolescents	Post-Doc (HRSA)	2013 - 2014	Asst Prof, Psychiatry, UAB Received NIH K-award as PI. Selected as "Rising Star" by American Psychological Society, 2019.
Patrice Capers, PhD	Weight, body composition, and human traits	Post-Doc (MERIT)	2013 – 2016	Visiting Assistant Professor in the Biology Department, the Citadel.
Cynthia Kroeger, PhD	Research fidelity in nutrition research	Post-Doc (F32)	2015 – present	F32DK107157
Greg Pavela, PhD	Co-mentor with Dr. Julie Locher. Interpersonal influences on obesity	Post-Doc (T32)	2013 – 2015	Assistant Professor, Department of Health Behavior, University of Alabama at Birmingham
TaShauna Goldsby, PhD	Social defeat and energetics	Post-Doc (T32)	2014 – 2016	Appointed by Birmingham Mayor Woodfin as Director of Grants Division for the City of Birmingham.
Tonia Schwartz, PhD	Evolution of Molecular Networks and Complex Energetic Traits	Post-Doc (McDonnell Foundation)	2014 – 2015	Asst Prof, Auburn University
Keisuke Ejima, PhD	Mathematical models of obesity	Post-Doc	2014 - present	Fellowship: Japan Society for the Promotion of Science

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
Alexis (Lekki) Wood, PhD	Genetics	Post-Doc	2012-2014	Assistant Professor, Baylor College of Medicine
Anarina Murillo, PhD	Mathematical models of obesity	Post-Doc	2016 - 2017	NIH T32 Received a 2018 mentor/mentoree grant of \$5,000 from the Sloan Scholars Mentoring Network of the Social Sciences Research Council and the Alfred P. Sloan Foundation.
Colby Vorland, PhD	Meta-research in nutrition and obesity	Post-Doc	Jan. 2019-Present	
Daniella Chusyd, PhD	Body composition & large mammal endocrinology & reproduction	Post Doc	2017 - Present	
Young Faculty				
Bert Boyer ⁷ , Ph.D.	Genetic epidemiologic methods in obesity.	Senior Post-Doctoral Fellow (NIH F32) on 1-year sabbatical from University of Alaska	1998 – 1999	Director, Center for Alaska Native Health Research; Professor of Molecular Biology, Department of Biology and Wildlife
Gary Gadbury, Ph.D.	Statistical analysis of microarray data.	Visiting Junior Professor	2000 – 2001	Chair of Department, Professor of Statistics, Kansas State University
Mary Weber, R.N., Ph.D. U. of Texas at Arlington	Antipsychotic-Induced Weight Gain	Remote Faculty Mentoree in the NIMH/NINR Mentorship Program for Building the Capacity of Psychiatric Mental Health Nurse Researchers. Pairs doctorally prepared psychiatric nurses who have high potential for a successful research career with mentors who are the top researchers in the nurses' areas of research interest.	2002 – 2003	Endowed Associate Professor, University of Colorado College of Nursing
David Redden, Ph.D.	Statistical Methods for Partitioning of Linkage Data	Mentored K-Award recipient/Asst Prof.	2002 – 2011	Professor of Statistics, UAB
Jamy Ard, M.D.	Treatment and prevention of obesity	Mentored K-Award.	2003 – 2011	Assoc Prof, Internal Medicine & Public Health Sciences & Dir, Weight Management Center;

⁷ Jointly mentored with Rudy Leibel & Steven Heymsfield.

Trainee	Topic of Study	Program	Dates of Training	Outcomes and/or Last known position
				Wake Forest Baptist Medical Center. Independent R01 funding.
Monica Baskin, Ph.D.	Treatment and prevention of childhood obesity	Serve as mentor on her pilot grants from CNRC and from an anonymous philanthropist.	2003 – 2010	Professor, UAB Dept. of Medicine, multiple R01s as PI
Nita Limdi, Ph.D.	Pharmacogenetics of Anticoagulation Therapy	Mentored K-Award recipient/Asst Prof./ Masters student in Public Health	2003 – 2012	Associate Professor of Neurology and Epidemiology, UAB School of Medicine. R01 as PI.
Nefertiti Durant, M.D.	Community and clinical aspects of obesity and its prevention	Assistant Professor of Pediatrics – Individual Mentor Arrangement	2006 – 2012	Assistant Professor, UAB Dept. of Pediatrics, Division of Pediatrics and Adolescent Medicine. Funding from RWJF as PI.
Olivia Thomas (now Affuso), Ph.D.	Exercise, epidemiology, and obesity.	Assistant Professor of Epidemiology – Individual Mentor Arrangement	2005 – 2010	Assoc Professor, UAB Dept. of Epidemiology, School of Public Health. R01 as PI.
Other				
Julie Yu	Obesity	Visiting Scholar (Nutritionist) from Taiwan	1997	
Wendy Packer-Munter, PsyD	Obesity	Extern.	1995 – 1996	School Psychologist, Louis M. Klein Middle School
Lauren Balkin Cohen, MS, RD, CDN		Nutrition intern, Hofstra University	1997	Registered dietician and clinical nutritionist in private practice, Lauren Cohen Nutrition, http://laurencohennutrition.com/about_lauren.html

LICENSURES and CERTIFICATIONS

- * New York State Licensed Clinical Psychologist; License # 011212-1. Valid through 1/31/2022.
- * Certified instructor in physical intervention and restraint (SCIP) by the New York State Office of Mental Retardation and Developmental Disabilities (certification now expired).
- * New York State certified school psychologist (2/1/1989 – 1/31/1994).

REFERENCES

Arne Vernon Astrup, M.D., Ph.D.
Professor & Chair, Department of Human Nutrition
University of Copenhagen
ast@life.ku.dk

Fergus M. Clydesdale, Ph.D.
Distinguished Professor and Director of the
Food Science Policy Alliance
University of Massachusetts at Amherst
fergc@foodsci.umass.edu

Rita Colwell, Ph.D.
Director Emeritus, National Science Foundation
rcolwell@umiacs.umd.edu

Sir David R. Cox
Nuffield College, Oxford University, OX1 1NF
david.cox@nuffield.ox.ac.uk

Robert H. Eckel, M.D.
Charles A. Boettcher Endowed Chair in Atherosclerosis
University of Colorado, Health Sciences Center
Robert.Eckel@UCDenver.edu

Robert C. Elston, Ph.D.
Distinguished University Professor
Case Western Reserve University
robert.elston@cwru.edu

Warren Ewens, Ph.D.
Professor of Biology, University of Pennsylvania
wewens@sas.upenn.edu

Carol Z. Garrison, PhD
President Emerita and Professor
University of Alabama at Birmingham
cggarrison@uab.edu

Daniel Gianola, PhD
Sewall Wright Professor of Animal Breeding & Genetics
University of Wisconsin-Madison
gianola@ansci.wisc.edu

Bernard S. Gorman, Ph.D.
Distinguished Professor, Department of Psychology
Hofstra University
gormanb@ncc.edu or gormanbernard85@gmail.com

Steven B. Heymsfield, M.D.
Executive Director Emeritus,
George A. Bray, Jr. Endowed Super Chair in Nutrition
Pennington Biomedical Research Center
Steven.Heymsfield@pbrc.edu

Van S. Hubbard, M.D., Ph.D.
Director, NIH Div of Nutrition Research (Ret)
Rear Admiral, U.S. Public Health Service (Ret)
vshubbard@alumni.union.edu

John P. A. Ioannidis
Professor of Medicine
Director, Stanford Prevention Research Center
Stanford University

jioannid@stanford.edu

Rudolph L. Leibel, M.D.
Christopher J. Murphy Professor of Diabetes Research
Head of the Division of Molecular Genetics
Co-director of the Naomi Berrie Diabetes Center at
Columbia University Medical Center
rl232@columbia.edu

Allen S. Levine, PhD
Vice Provost for Faculty and Academic Affairs
University of Minnesota
aslevine@umn.edu

Shirley Malcom, PhD
Head of Education and Human Resources Programs
American Association for the Advancement of Science
smalcom@aaas.org

Richard B. Marchase, PhD
Vice President for Research and Economic Development
(emeritus), University of Alabama at Birmingham
marchase@uab.edu

Nir Menachemi, PhD
Fairbanks Endowed Chair, Professor and Department
Chair, Health Policy and Management
IU Richard M. Fairbanks School of Public Health
nirmena@iu.edu

Michael C. Neale, Ph.D.
Distinguished Professor, Virginia Inst of Psychiatric &
Behav Genetics
Medical College of Virginia
Neale@vcu.edu

Dr. Barbara J Rolls, PhD
Helen A. Guthrie Chair and Professor
Pennsylvania State University
bjr4@psu.edu

Harlan Sands, J.D.
President
Cleveland State University
Harlansands@gmail.com

Ayman I. Sayegh, DVM, PhD
Associate Dean for Research and Graduate Studies
College of Veterinary Medicine, Nursing & Allied Health
Tuskegee University
sayeghai@mytu.tuskegee.edu

Eric E. Schadt, Ph.D.
Jean C. and James W. Crystal Professor of Genomics
Director, Institute for Genomics and Multiscale Biology
Mount Sinai School of Medicine
Eric.schadt@mssm.edu

Bharat Soni, Ph.D.
Vice President of Research & Economic Development
Tennessee Tech University
Bsoni@tntech.edu