



# The Next Generation of Obesity Research

## No Time to Waste

Griffin P. Rodgers, MD

Francis S. Collins, MD, PhD

**T**HE OBESITY EPIDEMIC IS NOT THE FIRST MAJOR health crisis that the United States has faced. In recent decades, progress has been made against such daunting challenges as tobacco use, infant mortality, and HIV/AIDS. However, obesity may pose the most significant challenge yet because it involves changing approaches to 2 fundamental aspects of daily life: food consumption and physical activity. To have any chance of release from obesity's ever-tightening grip, the nation will require broad-based efforts in every corner of society: homes, schools, community organizations, all levels of government, urban design, transportation, agriculture, the food industry, the media, medical practice, and, without question, biomedical research.

### Research Is Needed to Determine What Works

Americans spend more than \$60 billion annually on weight-loss programs and products, yet scant evidence exists that these expenditures translate into lasting weight loss. Given the health consequences of obesity, the United States needs rigorous data on what approaches can help achieve and maintain healthy body weights over the long term.

### Strengthening the Foundation

Basic research aimed at expanding understanding of the molecular basis of obesity will lay the groundwork for efforts to identify new and better therapeutic options. For example, elucidating molecular signals that drive appetite or exercise-mediated metabolic effects may enable development of better weight loss medications that do not have the adverse effects associated with previously marketed weight loss drugs. Basic research may also uncover new possibilities for prevention of or early intervention for obesity, such as recent discoveries indicating that epigenetic mechanisms that manifest during gestation or infancy may be associated with obesity.<sup>1</sup>

Admittedly, these goals are elusive. Support for basic research aimed at yielding more immediate results is critical. For example, more work is needed to understand why bariatric surgery works as well as it does, including efforts to explain why patients with type 2 diabetes can experience benefits even before significant weight loss occurs.

Another near-term priority should be research focused on understanding the environmental risk factors for obesity. Heredity clearly plays a major role, yet the recent obesity epidemic cannot be blamed on the human gene pool since it has remained essentially constant over the last few decades. Thus, environmental factors must be assessed both for causes of the problem and for answers. An example of

# Progreb In Obesity Research

**Timothy Lohman,Laurie A. Milliken**



## **Progreb In Obesity Research:**

Prog. Obes. Res ,1990      **Progress in Obesity Research 1990** Yutaka Ōmura,1991 Contains the fully edited proceedings of the 6th International Congress on Obesity including the Progress in Molecular Approach session

**Progress in Obesity Research: 8** Bernard Guy-Grand,1999      **Progress in Obesity Research: 9** ,2003

Reconstructing Obesity Megan B. McCullough,Jessica A. Hardin,2013-10-01 In the crowded and busy arena of obesity and fat studies there is a lack of attention to the lived experiences of people how and why they eat what they do and how people in cross cultural settings understand risk health and bodies This volume addresses the lacuna by drawing on ethnographic methods and analytical emic explorations in order to consider the impact of cultural difference embodiment and local knowledge on understanding obesity It is through this reconstruction of how obesity and fatness are studied and understood that a new discussion will be introduced and a new set of analytical explorations about obesity research and the effectiveness of obesity interventions will be established      **Obesity Treatment** David B. Allison,F.Xavier

Pi-Sunyer,2012-12-06 Treatment outcome has certainly improved since Stunkard and McLaren Hume 1959 reviewed the literature and found that less than 25% of obese patients lost 20 pounds or more and less than 5% lost 40 pounds or more However one of the few points on which almost all obesity researchers agree is that to date our results are quite modest and we are generally unsuccessful in promoting effective weight maintenance among obese persons As the title of a more recent article Improving long term weight loss Pushing the limits of treatment Brownell Jeffrey 1987 emphasis added suggests many believe that we have pushed our current treatment paradigms to the limit It was with this background in mind that we organized the meeting from which these proceedings issue The purpose of the three day international meeting was to evaluate the current knowledge base and conceptual paradigms of obesity treatment and to suggest directions for future research and clinical practice Rather than simply for research reporting the meeting was primarily for research generation All speakers were established scientists in the field who were asked to summarize our state of knowledge in a given area rather than present the results of their latest research Great efforts were taken to ensure that panel discussions occupied a central portion of the conference and that the questions What else do we need to know and How do we find it out were consistently addressed      Bridging the Evidence Gap in Obesity Prevention Institute of Medicine,Food and Nutrition

Board,Committee on an Evidence Framework for Obesity Prevention Decision Making,2010-12-24 To battle the obesity epidemic in America health care professionals and policymakers need relevant useful data on the effectiveness of obesity prevention policies and programs Bridging the Evidence Gap in Obesity Prevention identifies a new approach to decision making and research on obesity prevention to use a systems perspective to gain a broader understanding of the context of obesity and the many factors that influence it      **Recent Advances in Obesity Research** Alan N. Howard,1975 Includes the proceedings of the 1st International Congress on Obesity      *The Oxford Handbook of the Social Science of Obesity* John

Cawley,2011-08-08 There is an urgent need to better understand the causes and consequences of obesity and to learn what works to prevent or reduce obesity This volume accurately and conveniently summarizes the findings and insights of obesity related research from the full range of social sciences including anthropology economics government psychology and sociology It is an excellent resource for researchers in these areas both bringing them up to date on the relevant research in their own discipline and allowing them to quickly and easily understand the cutting edge research being produced in other disciplines The Oxford Handbook of the Social Science of Obesity is a critical reference for obesity researchers and is also valuable for public health officials policymakers nutritionists and medical practitioners The first section of the book explains how each social science discipline models human behavior in particular diet and physical activity and summarizes the major research literatures on obesity in that discipline The second section provides important practical information for researchers including a guide to publicly available social science data on obesity and an overview of the challenges to causal inference in obesity research The third part of the book synthesizes social science research on specific causes and correlates of obesity such as food advertising food prices and peers The fourth section summarizes social science research on the consequences of obesity such as lower wages job absenteeism and discrimination The fifth and final section reviews the social science literature on obesity treatment and prevention such as food taxes school based interventions and medical treatments such as anti obesity drugs and bariatric surgery Proceedings of the 9th International Congress on Obesity Geraldo Medeiros-Neto,Alfredo Halpern,Claude Bouchard,2003 Obesity is officially recognised as a major worldwide public health problem Progress in Obesity Research 9 fulfils the need for an accessible and fundamental research highly recommended towards a better understanding of obesity It will prove an indispensable resource for all those involved in the research prevention and treatment of obesity **Recent progress in obesity research** Han'guk Yōngyang Hakhoe,1990

**Obesity 101** Lauren Rossen,Eric Rossen,2011-09-19 This resource is an exciting new book that features a balanced perspective about one of the most talked about topics of this time it would be a great resource for those who are interested in joining the fight to eradicate obesity and obesity related consequences Journal of Nutrition Education and Behavior Lauren and Eric Rossen offer a well articulated account of the growing obesity epidemic in today's society in an engaging easily understood and witty manner This comprehensive volume should serve as an essential resource for researchers clinicians students and the general public interested in the fundamental understanding assessment treatment and prevention of obesity Jason P A Gallant Ph D Chief Psychologist Boys Town Central Florida Behavioral Health Clinic Although research on obesity has accelerated over the past decade the proportion of Americans considered obese has not declined In order to address this critical public health challenge obesity research has recently shifted from focusing purely on individual causes to viewing individuals within their obesogenic or living environments Encompassing both schools of thought Obesity 101 is the first volume to offer a broad and balanced perspective on the complex factors that influence obesity The text combines current

research from multiple perspectives to provide an introductory level reader friendly overview of the history causes prevalence consequences treatments and future trends in the prevention of obesity It integrates research from a vast range of disciplines in the biological and social sciences as well as education and economics The text explores the gamut of current treatments for obesity in addition to prevention programs in schools the workplace the community and the arena of public policy and offers an assessment of their efficacy Since obesity is a burgeoning problem in the developing world as well as having already reached epidemic proportions in many developed nations the book also discusses international trends Key Features Brings together the most current obesity research from a variety of disciplines Provides a balanced review of one of today s most controversial health issues Discusses the various medical psychological social educational and occupational consequences of obesity for children and adults Reviews the effectiveness of prevention and treatment programs as well as interventions Accessible conversational writing style designed for use by undergraduate and graduate students in addition to professionals across many disciplines

*New Developments in Obesity Research* Lawrence F. Ditmier, 2006 Far from a sign of healthy prosperity and contentment overweight and obesity are now considered high risk factors for a wide range of diseases including early death and disability heart disease diabetes reproductive problems cancer breathing problems and arthritis Obesity now at epidemic levels in many countries is defined as an excessively high amount of body fat or adipose tissue in relation to lean body mass The amount of body fat or adiposity includes concern for both the distribution of fat throughout the body and the size of the adipose tissue deposits This book includes within its scope the causal connection of obesity to diseases as well as the prevention and treatment of obesity Leading edge scientific research from throughout the world is presented

Progress in Obesity Research: 7 A. Angel, 1996 Obesity remains a prevalent disorder in the Western world and is a serious public health concern because it is a significant forerunner of major chronic debilitating diseases including diabetes hypertension lipid disorders and coronary atherosclerosis

**Recent advances in obesity research** Alan Howard, International Congress on Obesity, 1981

Encyclopedia of Obesity Kathleen Keller, 2008-01-24 This work featuring a reading level appropriate for high school audiences and above is recommended for academic and public libraries Library Journal The Encyclopedia of Obesity is as much of a reference resource as it is a tool to raise awareness in the medical and public health communities With almost 500 entries these two volume summarize pertinent topics in obesity and related health conditions including molecular biology psychology medicine public health and policy food science environmental health and pharmaceuticals The editor has chosen topics that capture the current climate of obesity research while still addressing and defining the core concepts related to this condition Based on a theme of Moving Forward in an Ever Expanding World articles address topics for a changing society that is slowly adapting to accommodate obesity including recent lawsuits new options for medical and dietary treatment and the importance of prevention in children Key Themes Biological or Genetic Contributors to Obesity Children and Obesity Dietary Interventions to Treat Obesity Disordered

Eating and Obesity Environmental Contributors to Obesity Health Implications of Obesity Medical Treatments for Obesity New Research Frontiers on Obesity Obesity and Behavior Obesity and Ethnicity Race Obesity as a Public Health Crisis Psychological Influences Outcomes on Obesity Societal Influences Outcomes on Obesity Women and Obesity Worldwide Prevalence of Obesity The Encyclopedia of Obesity is intended to serve as a general and nontechnical resource for biology sociology health studies and other social science students teachers scholars researchers and anyone in the general public who wishes to understand the development of obesity as it prevails in the United States and worldwide *Obesity* Gareth Williams, Gema Fruhbeck, 2009-07-08 This comprehensive textbook addresses one of the major public health concerns of our era obesity Clearly and simply Obesity science to practice provides a balanced coherent account of obesity how to define and measure it its epidemiology the physiological basis associated diseases how to assess manage and treat it and also strategies for prevention The book is generously illustrated including graphs and flow charts for easy reference The chapters cite key references so that interested readers may pursue a given topic in more detail Well presented and thoroughly edited by one of the leading experts in the field this is the textbook of choice for anyone working in obesity *Proceedings of the 9th International Congress on Obesity* Geraldo Medeiros-Neto, Alfredo Halpern, Claude Bouchard, 2003 Obesity is officially recognised as a major worldwide public health problem Progress in Obesity Research 9 fulfils the need for an accessible and fundamental research highly recommended towards a better understanding of obesity It will prove an indispensable resource for all those involved in the research prevention and treatment of obesity **The Science of Long-Term Weight Loss** Timothy Lohman, Laurie A. Milliken, 2025-03-07 The Science of Long Term Weight Loss provides a comprehensive evidence based approach to help clients and patients achieve long term weight loss success Taking into consideration decades of research from experts in the field it embraces a multidisciplinary approach and use of the complexity science approach to better understand the issues surrounding long term weight loss The current obesity epidemic which began in the 1980s and continues into the 21st century has significantly affected the U S population and communities throughout the world The Science of Long Term Weight Loss counters the public health crisis with long term weight loss solutions modified for individual lifestyles rather than strategies that only offer evidence for short term success The text covers a broad range of topics including food addiction exercise resistance night eating syndrome emotional regulation continuous care problem solving accountability and group support Throughout the text case studies offer a glimpse into the struggles and successes involved with long term weight loss Putting It Into Perspective and Expert Perspective sidebars provide additional context to complex topics and Do You Know elements call out important information for readers Each chapter contains objectives and summaries to aid in knowledge retention The Science of Long Term Weight Loss begins by discussing the origins of the obesity epidemic and theoretical strategies to support weight loss The authors use the complexity science approach to explain the factors that contribute to the prevalence of obesity such as genetics and public policy The text goes on to explore

behavioral influences on body composition such as physical activity and nutritional intake Sustainable long term weight loss solutions and the prevention of weight regain are studied in depth and societal factors such as the environment and food production are considered Health care practitioners will find alternative approaches to weight loss that can be customized to the individual as well as practical advice to achieve client goals As a resource for understanding the multifaceted issues surrounding obesity and weight loss this book will be invaluable to researchers and practitioners in fields studying or encountering obesity including registered dietitians and nutritionists as well as fitness and health professionals working with clients or patients who need long term strategies for weight management Earn continuing education credits units A continuing education exam that uses this book is also available It may be purchased separately or as part of a package that includes both the book and exam     Progress in Obesity Research: 7 Aubie Angel, 1996 Obesity remains a prevalent disorder in the Western world and is a serious public health concern because it is a significant forerunner of major chronic debilitating diseases including diabetes hypertension lipid disorders and coronary atherosclerosis

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