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Dr. Hotamışlıgil's research efforts focus on the genetic basis of common and complex diseases, particularly obesity, diabetes, and heart disease. His research examines the molecular mechanisms of nutrient sensing and response pathways as they relate to immunity and physiological metabolic homeostasis. He is an internationally recognized leader with many seminal contributions including the discoveries that defined immunological components of obesity and led to the emergence of the field of "immunometabolism", discovery of novel hormones as well as lipid chaperones regulating lipid and glucose metabolism, and endoplasmic reticulum as a key organelle regulating cellular and organismic metabolism, and its role in obesity, insulin resistance, and diabetes. Dr. Hotamışlıgil pursues interdisciplinary paths, collaborations, and industry alliances towards development of novel preventive and therapeutic strategies against chronic metabolic diseases. These programs have driven several drug development platforms currently in clinical trials. His work has resulted in >180 papers which have received >40,000 citations and resulted in >10 patents.

Dr. Hotamışlıgil has been recognized with many fellowships and awards from the Markey, Pew, and Sandler Foundations, the American Diabetes Association, the National Institutes of Health and the J.S. Simmons Endowment at Harvard University. He's an elected permanent member of the Turkish Academy of Sciences and the recipient of the 2004 TUBITAK Science Award. He is an elected fellow of the AAAS and the recipient of the Outstanding Scientific Accomplishment Award of American Diabetes Association, the Wertheimer Award from International Association for the Study of Obesity, the Naomi Berrie Award from Columbia University, the Science Award of the Vehbi Koç Foundation, Roy Greep Award of Endocrine Society, and the International Danone Prize. He has trained many students and fellows who now hold independent positions in leading Universities and Industry groups around the world and has been recognized by the Harvard School of Public Health Mentoring Award. He has delivered >300 lectures including the Kroc, the Havel, the Charles Hollenberg Memorial, the McGarry Memorial, the Ihsan Dogramacı Memorial, the Laguna Memorial Lectures and Medal, the Jean-Pierre Benhamou lecture and many others. He is a member of the editorial boards of Cell Metabolism, Science Translational Medicine, JCI, JLR, JMM, EMBO Molecular Medicine, Diabetes, Turkish Journal of Biochemistry, and, Medicine. Other services include the Board of trustee of the Kadir Has University, JDRF Metabolic Control Program, Harvard-Pfizer Joint Steering Committee, Harvard Catalyst, Appointments and Promotions, Intellectual Property, and Conflict of Interest Committees. He has served in the Advisory Boards of Syndexa Pharmaceuticals and Lipomics Inc., and selection committees for the NY Academy of Sciences, Blavatnik, Kadir Has, Sabri Ülker, and Armen Tashjian Awards.

Further information could be obtained at: <http://www.hsph.harvard.edu/research/gsh-lab/>