You are cordially invited to attend a

DISTINGUISHED PRESIDENTIAL SCHOLAR COLLOQUIUM

Monday, April 17, 2017
Presentation 11:00 am to 12:00 pm
Alma Jennings Foundation, Carlos and Rosa de la Cruz Study Center
Jenkins Building 123

“Bringing Down Health Care Costs by Genetic Study and Use of Big Data”
Presented by:

Prof. Carlos D. Bustamante, Ph.D.
Founding Chair and Professor, Department of Biomedical Data Science,
Professor of Genetics and (by courtesy) Biology, Stanford University School of
Medicine Founding Director, Stanford Center for Computational, Evolutionary,
and Human Genomics

For the past 15 years, Dr. Carlos Bustamante has led a multidisciplinary team working on problems at the interface of computational and biological sciences. Much of his research has focused on genomics technology and its application in medicine, agriculture, and evolutionary biology. His first academic appointment was at Cornell University’s College of Agriculture and Life Sciences. There, much of his work focused on population genetics and agricultural genomics motivated by a desire to improve the foods we eat and the lives of the animals upon which we depend. He moved to Stanford in 2010, to focus on enabling clinical and medical genomics on a global scale. He has been particularly focused on reducing health disparities in genomics by: (1) calling attention to the problem raised by >95% of participants in large-scale studies being of European descent; and (2) broadening representation of understudied groups, particularly U.S. minority populations and those from Latin America. Taken together, this work has empowered decision-makers to utilize genomics and data science in the service of improving human health and wellbeing. His future goal is to scale these operations from focusing on researchers to consumers and patients, where we ultimately want our work to have the greatest impact.

Dr. Bustamante also has a strong interest in building new academic units, non-profits, and companies. He is the Inaugural Chair of the Department of Biomedical Data Science, the first new department that Stanford has started in 14 years. He is Founding Director (with Marc Feldman) of the Stanford Center for Computational, Evolutionary, and Human Genomics and former Founding Associate Director of the Cornell Center for Comparative and Population Genomics (3CPG). He serves as an advisor to the US federal government, private companies, startups, and non-profits in the areas of computational genomics, population and medical genetics, and veterinary and plant genomics. He is the founder of Arc-Bio (formerly IdentifyGenomics and BigData Bio) and current chair of its Scientific Advisory Board as well as an SAB member of multiple companies listed below. Finally he is the Owner and President of CDB Consulting, LTD., an expert witness, IP, and strategy consulting group.

Carlos D. Bustamante received a B.A. (1997), M.A. (2001), and Ph.D. (2001) from Harvard University. He was a postdoctoral fellow at the University of Oxford (2001–2002). His scientific articles have appeared in such journals as Nature, Science, Molecular Biology and Evolution, PLoS Genetics, and PNAS.

RSVP to healthcare@bus.miami.edu