

Biographical information of scientific presenters

Dr. Sergio Abrignani, M.D., Ph.D.

Dr. Sergio Abrignani is the Chief Scientific Officer of the National Institute of Molecular Genetics in Milan, Italy, and is Professor of Immunology of the Gastrointestinal Tract at the University of Siena School of Medicine. Previously he was Vice President for Immunology and Infectious Diseases Research at Chiron Corp. (Emeryville, CA, U.S.), headed the Immunology and Virology Research Unit at Chiron Vaccines (Siena, Italy), and headed a lab in the Immunology and Inflammation Unit at the Ciba-Grigny Research Centre (Basel, Switzerland). Dr. Abrignani's research interests have focused chiefly on cellular interactions among immune cells and on the effects of viral infections (mainly hepatitis C [HCV]) on the immune system. The major scientific achievements of his research activities have been the identification of the HCV receptor on human cells and the development of a HCV vaccine that currently is in clinical development. In 2004, Dr. Abrignani received the Public Health Gold Medal of Merit for his studies on HCV. He is also affiliated with the European Society of Virology, the Henry Kunkel Society of New York, the American Association for the Study of Liver Diseases, and the Italian Society of Immunology, among other organizations.

Dr. Robert Buchanan, Ph.D., M.Phil., M.S.

Dr. Robert Buchanan is Professor and Director of the Center for Food Safety and Security Systems at the College of Agricultural and Natural Resources, University of Maryland (UMD). He has more than 35 years of experience teaching, conducting research in food safety, and working at the interface between science and public health policy. Additionally, Dr. Buchanan is a co-developer of the widely used USDA Pathogen Modeling Program. Previously, he spent nine years as Senior Science Advisor at the U.S. Food and Drug Administration's Center for Food Safety and Applied Nutrition (FDA CFSAN) and was Director of the CFSAN Office of Science until 2006. His scientific interests are diverse, and include extensive experience in predictive microbiology, quantitative microbial risk assessment, microbial physiology, mycotoxicology, and food safety systems. Dr. Buchanan has served on numerous national and international advisory bodies, including serving as a permanent member of the International Commission on Microbiological Specification for Foods, as a six-term member of the National Advisory Committee for Microbiological Criteria for Foods, and as the U.S. Delegate to the Codex Alimentarius Committee on Food Hygiene for a decade. Dr. Buchanan is a fellow of the American Society of Microbiology, and the Institute of Food Technologists.

Dr. David Fisman, M.D., M.P.H.

Dr. David Fisman is an Associate Professor in the Division of Epidemiology at the Dalla Lana School of Public Health, University of Toronto. Additionally, he is Associate Professor of Health Policy, Management and Evaluation, and Adjunct Associate Professor of Medicine at the University. Previously he held academic positions at Princeton, Drexel, and McMaster Universities. Dr. Fisman's research interests involve the application of novel epidemiologic methods to the study of infectious diseases, including vaccine-preventable diseases, sexually transmitted infections, and bacterial respiratory pathogens. He is Principal Investigator on a Canadian Institutes for Health Research-funded study exploring interactions among influenza, invasive bacterial disease, and the environment in 16 cities in Canada, the U.S., France, Australia, and South Africa. He has also provided testimony to the Institutes of Medicine panel

on climate change and indoor air quality related to environmental influences on disease transmission. Dr. Fisman is a member of the Canadian Institutes of Health Research-supported Canadian Consortium for Pandemic Preparedness Modeling (CanPan) and Pandemic Influenza Outbreak Research Modeling Team (PanINFORM). He was the recipient of a 2010 Ontario Ministry of Research and Innovation “Early Researcher Award.” In addition, he received a 2003 GlaxoSmithKline Elion Young Investigator Award and a 2005 “Golden Apple” teaching award.

Dr. Bruce Hay, Ph.D.

Dr. Bruce Hay is Professor of Biology at the California Institute of Technology. His research focuses on using genetic and developmental tools to understand and manipulate the biology and genetics of wild populations. In 2008, Dr. Hay was named an NIH Director's Pioneer Award recipient for his innovative malaria prevention research related to genetically modified mosquitoes, which he continues to investigate. Within this, Dr. Hay and his team are pursuing a strategy for preventing malaria in humans by introducing genes that block transmission of the disease into populations of wild mosquitoes. Dr. Hay's work to eliminate mosquito-borne diseases was named as one of the top 50 technological developments of 2007 by *Scientific American*. Additional honors he has received include awards from the Burroughs Wellcome Fund and the Ellison Medical Foundation, as well as the Searle Scholar Award.

Prof. Martyn Jeggo, B.Vet.Med., M.Sc., Ph.D.

Prof. Martyn Jeggo is the Director of The Commonwealth Scientific and Industrial Research Organisation's (CSIRO) Australian Animal Health Laboratory (AAHL) and Adjunct Professor at Deakin University, Australia. In his role at AAHL, he promotes a “One Health” approach toward the diagnosis and surveillance of new and emerging diseases. Prior to this position, Prof. Jeggo was the Head of the Animal Production and Health Science Section of the Joint Food and Agricultural Organization/International Atomic Energy Agency (FAO/IAEA) Division of Agriculture, in Vienna, Austria (1996–2002). Additionally, he has held posts as Director of Veterinary Diagnostic Laboratories in Yemen and Head of the Department of Immunology at the United Kingdom's Institute of Animal Health Pirbright Laboratories. Among his professional achievements, Prof. Jeggo was responsible for developing an international external quality assurance program for veterinary laboratories. He is a founding member of the Foot and Mouth Disease Global Research Alliance, and a member of both the Royal College of Veterinary Surgeons and the Australian Institute of Company Directors.

Dr. David Markovitz, M.D.

Dr. David Markovitz is a Professor of Internal Medicine in the Division of Infectious Diseases at the University of Michigan, where he also has appointments in Cellular and Molecular Biology, Cancer Biology, and Immunology programs. Dr. Markovitz, who has been a faculty member at the University since 1988, has also practiced at both the University Hospital and the Veterans Administration Hospital Infectious Diseases Service. He currently runs a multidisciplinary research laboratory that studies the interactions between retroviruses and human cells. Specific projects examine the following issues: (1) the mechanism of action of the DEK protein, which has been linked to the pathogenesis of HIV-2, leukemia, solid tumors, and autoimmune disease; (2) the pathogenic effects of human endogenous retroviruses; (3) anti-HIV microbicides; and (4) the role of vimentin in immunity. Dr. Markovitz has been the recipient of numerous awards, including a Burroughs Wellcome Fund Clinical Scientist Award in Translational Research and most recently a National Institutes of Health Director's Transformative R01 Award to study replication of human endogenous retroviruses. Dr. Markovitz has previously served on the FDA

Vaccines and related Biological Products Advisory Committee and is a member of the American Society for Clinical Investigation and the Association of American Physicians.

Dr. Timothy Rodwell, M.D., Ph.D., M.P.H.

Dr. Timothy Rodwell is Assistant Professor in the Division of Global Public Health at the University of California, San Diego School of Medicine. Additionally, he is an attending physician at the Refugee Health Assessment Program, and co-founder of Utopia Scientific, a nonprofit organization focusing on promoting awareness of the importance of science, public health, and education through research, education, and community development. Dr. Rodwell has been studying tuberculosis (TB) and emerging zoonotic disease epidemiology since 1995. He specializes in global health with an emphasis on TB monitoring, control, and treatment in resource-poor settings. His work currently involves research on the molecular epidemiology of global drug resistance and TB infection control in Ethiopia, as well as a project looking at multidrug-resistant TB on both sides of the California-Mexico border. Previously, he has investigated anthrax in elephants in Namibia and bovine tuberculosis control in African buffalo in South Africa. Dr. Rodwell also acts as a consultant to UCSD projects funded by the U.S. President's Emergency Fund for AIDS Relief (PEPFAR) in Ethiopia.

Dr. Jørgen Schlundt, D.V.M., Ph.D.

Dr. Jørgen Schlundt is Deputy Director at the National Food Institute at Technical University of Denmark. Previously, he was Director of the Department of Food Safety and Zoonoses at the World Health Organization (WHO), Geneva (1999–2010). Before his work at the WHO, he participated in a number of international bodies, including Organisation for Economic Co-operation and Development (OECD) expert groups, WHO and Food and Agricultural Organization (FAO) Expert Consultations, European Union Scientific Committees, and the FAO/WHO Codex Alimentarius Commission. Dr. Schlundt has contributed to the international development of risk analysis principles, including the use of scientific risk assessment as the basis for food safety management decisions. As part of this, he has overseen new international initiatives, including the creation of the Joint WHO/FAO Expert Meetings on Microbiological Risk Assessment and the International Food Safety Authorities Network, the buildup of the Global Foodborne Infections Network, the initiation of the first-ever estimation of the global burden of foodborne diseases, and the development of a major consumer education program on the Five Keys to Safer Food. Dr. Schlundt also worked at the national level on environmental and food safety issues from 1983 to 1999, and headed the Bacteriology Department at the Veterinary Research Laboratory in Harare, Zimbabwe, in this period.