

## Dr. David S. Guttman

Dr. David Guttman is a Professor and Associate Chair for Research in the University of Toronto Department of Cell & Systems Biology, and founder and Director of the Centre for the Analysis of Genome Evolution & Function. Dr. Guttman obtained his Ph.D. in microbial evolution from Stony Brook University 1995, held postdoctoral fellowships in molecular evolution and then plant-microbe interactions at the University of Chicago, and started his faculty position at the University of Toronto in 2000.

Dr. Guttman leads an multidisciplinary program that has resulted in novel insights into pathogen evolution and how natural genetic diversity governs host-microbe interactions. His studies of the global genetic diversity of bacterial species, long-term evolution of pathogens to new hosts, short-term adaptation of pathogens during the course of disease development, and how pathogen virulence factors evolve and interact with the host immune system to determine the outcome of host-microbe interactions have transformed our understanding of pathogen host specificity and how hosts respond to the relentless challenge of pathogen attack.

Dr. Guttman has published over 145 peer-reviewed papers, which have been cited over 10,500 times. He is the recipient of numerous awards, including a Canada Research Chair in Comparative Genomics, a Premier's Research Excellence Award, and an NSERC Discovery Accelerator Award. He was elected as Chair of the American Society for Microbiology, Division R: Evolutionary and Genomic Microbiology in 2008, and serves on the editorial boards of *mBio*, *PLoS Pathogens* and *PLoS Genetics*. Dr. Guttman has supervised 35 graduate students, 22 postdoctoral fellows, and over 100 undergraduate research students. He has presented 126 invited talks since starting his faculty position, including 20 keynote or plenary presentations. He has held and contributed to numerous research grants including being PI of two multi-million dollar Canadian Foundation for Innovation awards, NSERC Discovery and Strategic Awards, CIHR Operating Grants, and Genome Canada Large-Scale Applied Research Projects. He is principle investigator of a multi-institution CIHR/NSERC Collaborative Health Research Grant, led a CIHR Human Microbiome Team, and is heads the microbiome component of numerous grants held by others from agencies as diverse as NIH, CIHR, Agriculture & AgriFood Canada, and Genome Canada. All totaled, he have been the principle investigator on grants bringing in ~\$22M in research funds, and contributed as co-investigator to other grants bringing in ~\$49M.