

SCIENTIFIC PROGRAM

SESSION LECTURE

No.18

Population Genomics and Human Health

Room: Swallow Room 1

Co-Chairs:
Shuhua Xu



Mark Allen Stoneking



Day 2 October 20th (Sunday) 14:00 – 17:00

Time	Speaker	Title
14:00-14:30	Mark Allen Stoneking University of Lyon, France	Archaic Genomes and Insights into Human Evolution
14:30-15:00	Li Jin Fudan University, China	From Genome to Phenome
15:00-15:30	Chung-I Wu Sun Yat-Sen University, China	On some fundamental evolutionary theories – Genetic drift, mutation and natural selection
15:30-16:00	Tea Break	
16:00-16:30	Jian Yang Westlake University, China	From genetic associations to genes and cellular contexts for human complex traits
16:30-17:00	Shuhua Xu Fudan University, China	Genetic Diversity and the Pangenome Reference 2.0 of Chinese Populations



Mark Allen Stoneking

stonekg@eva.mpg.de

Prof. Stoneking is an elected member of the National Academy of Sciences, USA (2020). He is a geneticist and molecular anthropologist contributing to the field of human evolution. His research interests involve using molecular genetic methods to address questions of anthropological interest concerning the origins, migrations, and relationships of human populations, and the influence of selection during human evolution. He, along with his doctoral advisor Allan Wilson, contributed to the "Out of Africa" Theory in 1987 by proposing the "Mitochondrial Eve", a hypothetical common mother of all living humans inferred based on mitochondrial DNA.



Li Jin

Dr. Li Jin, President of Fudan University and Dean of Shanghai Medical College, Director of Human Phenome Institute. He is a member of Chinese Academy of Science and an external member of Max-Planck Society. Dr. Jin's main research areas encompass genetic structure and migrations of human populations, genetics of human complex diseases and computational biology. To date, he has published more than 900 papers in international academic journals including Nature, Science, Cell, NEJM, JAMA etc. and his papers have been cited 50,000 times. He served as a board member of HUGO, co-founded Genographic Project, Pan-Asian SNP Consortium, and International Human Phenome Consortium (IHPC). He also co-founded National Human Genome Center at Shanghai, CAS-MPG Partner Institute of Computational Biology, Shanghai International Human Phenome Institute.



Chung-I Wu

wzhongyi@mail.sysu.edu.cn

Chung-I Wu, Academician, Academia Sinica, Professor of Sun Yat-Sen University, Former Director of Beijing Institute of Genomics, Emeritus Professor and Former Chair of department of Ecology and Evolution, University of Chicago. His major contributions are in molecular evolutionary studies including the molecular clock, sexual selection, natural selection and microRNA evolution. His special contribution is in the molecular genetics of species formation, being the first one to study genic speciation and proposed the genic view of speciation to challenge the gold standard of species concept of the last half century. He then extended this genic concept to connect speciation with global biodiversity. Since 2012, he has become one of the pioneers to bring the evolutionary principles to the study of cancers in a new field of ultra-microevolution and demonstrated the enormous genetic diversity and rapid evolution of tumors.



Jian Yang

jian.yang@westlake.edu.cn

Jian Yang is a Professor of Statistical Genetics at the School of Life Sciences, Westlake University, China. His research focuses primarily on genetics and genomics of complex traits in humans. He was the 2012 recipient of the Centenary Institute Lawrence Creative Prize, acknowledging his contribution to solving the 'missing heritability' paradox. He was awarded the Australian Academy of Science Ruth Stephens Gani Medal for distinguished research in human genetics (2015) and the Prime Minister's Prize for Sciences - Frank Fenner Prize for Life Scientist of the Year (2017). He has published over 240 papers, which have received >100,000 citations.



Shuhua Xu

xushua@fudan.edu.cn

Dr. Shuhua Xu is professor of human population genetics, Principal Investigator of Population Omics Group, and Director of the Center for Evolutionary Biology at Fudan University. He was appointed the position of Max-Planck Independent Research Group Leader in 2011, and was supported by both Max-Planck and CAS in 2012-2018. He is currently holding a Distinguished Professorship at Fudan University and a Distinguished Adjunct Professorship at ShanghaiTech University, China. The Population Omics Group led by Dr. Xu is using computational approaches and developing new methods to dissect the genetic architecture of human populations, quantitatively characterize their admixture features, and reveal their migration history and adaptive divergence. Dr. Xu has authored many scientific papers published in Nature, Science, Cell, PNAS etc. Dr. Xu serves as co-Editor-in-Chief of Molecular Genetics and Genomics.