"Evolutionary Ecology and Genomics" Workshop 进化生态与基因组学研讨会

Location: Conference Room 3, BNU Jingshixuetang Conference Building 地点:京师学堂第三会议室

Saturday June 24	
	Host: Quan-Guo Zhang
8:30 - 9:10	Michael Lynch (Indiana University) The cost of building a cell and its parts, and the evolutionary implications
9:10 - 9:50	Nancy Moran (University of Texas at Austin) Genomic evolution in heritable endosymbionts
9:50 - 10:10	Break
10:10 - 10:50	John Archibald (Dalhousie University) One plus one equals one: historical and modern perspectives on endosymbiotic theory
10:50 – 11:30	Michael Travisano (University of Minnesota) Origins of multicellular complexity
11:30 – 12:00	Pu Wang (University of Minnesota) Synergistic cooperation during the evolution of multicellularity
	Host: Deng-Ke Niu
13:30 - 14:10	Howard Ochman (University of Texas at Austin) The evolution of bacterial genes and genomes
14:10 – 14:50	Jeffrey Barrick (University of Texas at Austin) Tempo and mode of genome evolution in laboratory populations of <i>E. coli</i>
14:50 – 15:30	Nick Colegrave (University of Edinburgh) The effects of new mutation in Chlamydomonas
15:30 - 15:50	Break
15:50 – 16:30	Xiong-Lei He (Sun Yat-sen University) The genotype-phenotype relationships in the light of evolution
16:30 – 17:10	Jian Lu (Peking University) Adaptive evolution of uORFs and functional relevance in Drosophila
17:10 – 17:40	Yi-Rong Wang (Peking University) Convergent and divergent evolution of microRNA regulation

Sunday June 25	
	Host: Jian Lu
8:30 - 9:10	Rees Kassen (University of Ottawa) Evolutionary ecology and genetics of antibiotic resistance
9:10 - 9:50	Sam Brown (Georgia Tech.) Effective and evolutionarily robust antimicrobial therapeutics
9:50 - 10:10	Break
10:10 - 10:50	Nancy Moran (University of Texas at Austin) Evolution of gut microbiota in social bees
10:50 – 11:30	Angus Buckling (University of Exeter) Evolutionary ecology of beneficial microbial communities
11:30 – 12:00	Tadashi Fukami (Stanford University) Embracing historical contingency in ecological community assembly: current status of the field
	Host: Kui Lin
13:30 - 14:10	Tadashi Fukami (Stanford University) Embracing historical contingency in ecological community assembly: some general insights from nectar microbes
14:10 – 14:40	Yi-Qi Hao (Georgia Tech) CF microbiome - observation, experiments, and modeling.
14:40 – 15:20	Sam Brown (Georgia Tech) Collective decision-making in bacteria
15:20 - 15:40	Break
15:40 – 16:20	Xiong-Lei He (Sun Yat-sen University) The biology complicated by genetic analysis
16:20 – 17:00	Yuan-Ye Zhang (Xiamen University) Evolutionary significance of DNA methylation variation
17:00 – 17:30	Allan Chang (University of Houston) Estimating spontaneous mutation rates in the nuclear dimorphic ciliate Tetrahymena thermophila
17:30 – 18:00	Peng-Cheng Yan (Beijing Normal University) Inferring evolutionary history in closely related Juglans species with whole-genome sequencing data

Monday June 26	
	Host: Xiong-Lei He
8:30 - 9:10	Michael Lynch (Indiana University) Population genomics of the microcrustacean Daphnia
9:10 - 9:50	John Archibald (Dalhousie University) Endosymbiosis and genome mosaicism in microbial eukaryotes
9:50 - 10:10	Break
10:10 - 10:50	Rees Kassen (University of Ottawa) Ecology and genetics of diversification in experimental populations of <i>Pseudomonas</i>
10:50 - 11:30	Angus Buckling (University of Exeter) Bacteria-virus antagonistic coevolution
11:30 – 12:10	Quan-Guo Zhang (Beijing Normal University) What limit evolutionary rescue?
	Host: Quan-Guo Zhang
13:30 – 14:10	Howard Ochman (University of Texas at Austin) The universality of biological species
14:10 – 14:50	Michael Travisano (University of Minnesota) Adaptation and convergence
14:50 – 15:30	Nick Colegrave (University of Edinburgh) Sex, chance and evolution
15:30 - 15:50	Break
15:50 – 16:30	Jeffrey Barrick (University of Texas at Austin) Understanding a rare metabolic innovation in a long-term <i>E. coli</i> evolution experiment
16:30 – 17:00	Xiao-Lin Chu (Beijing Normal University) Do warmer temperatures increase mutation rate and accelerate natural selection?
17:00 – 17:30	Yancong Zhang (Beijing Normal University) Genomic data from experimental populations of <i>Escherichia</i> coli provide convincing evidence that selection is stronger under stress
17:30 – 18:00	Sidra Aslam (Beijing Normal University) Aerobiosis Decreases the Genomic GC content in Bacteria

Brief introduction of speakers (报告人简介):

John Archibald, Distinguished Research Professor at Dalhousie University (Canada); BSC (1997, Dalhousie University), PhD (2001, Dalhousie University).

Sidra Aslam, graduate student at Beijing Normal University.

Jeffery Barrick, Assistant Professor at University of Texas at Austin (USA); BSc (2001, California Institute of Technology); PhD (2006, Yale University).

Sam Brown, Associate Professor at Georgia Institute of Technology (USA); BSc (1994, University of Cambridge); PhD (2000, University of Cambridge).

Angus Buckling, Professor at University of Exeter (UK); BSc (1995, University of Bristol), PhD (1998, University of Edinburgh).

Allan Y-C. Chang, postdoc at University of Houston (USA). Bsc (2000, Case Western Reserve University); PhD (2013, University of Minnesota).

Xiao-Lin Chu, graduate student at Beijing Normal University.

Nick Colegrave, Professor at University of Edinburgh (UK); BSc (1990, University of Susses), PhD (1995, University of Sheffield)

Tadashi Fukami, Associate Professor at Stanford University (USA); BSc (1996, Waseda University); PhD (2003, University of Tennessee).

Yi-Qi Hao, Postdoc at Georgia Institute of Technology, BSc (2011, Beijing Normal University), PhD (2016, Beijing Normal University).

Xiong-Lei He, Professor at Sun Yat-sen University. Bsc (1998, Sun Yat-sen University), PhD (2007, University of Michigan).

Rees Kassen, Professor at University of Ottawa (Canada); Bsc (1995, Queen's University), PhD (2001, McGill University).

Jian Lu, Research Professor at Peking University. PhD (2008, University of Chicago).

Michael Lynch, Distinguished Professor at Indiana University, member of National Academy of Sciences USA. BSc (1973, St. Bonaventure University), PhD (1977, University of Minnesota).

Nancy Moran, Leslie Surginer Endowed Professor at University of Texas at Austin). BSc (1976, University of Texas); PhD (1982, University of Michigan)

Howard Ochman, Professor at University of Texas at Austin. Bsc (1975, Vassar College), PhD (1984, University of Rochester).

Michael Travisano, Professor at University of Minnesota. BSc (1983, Columbia University), PhD (Michigan University).

Pu Wang, PhD student at University of Minnesota.

Yi-Rong Wang, graduate student at Beijing Normal University.

Peng-Cheng Yan, graduate student at Beijing Normal University.

Quan-Guo Zhang, Research professor at Beijing Normal University. BSc (2001, Beijing Normal University); PhD (2005, Beijing Normal University); PhD (2008, University of Oxford)

Yancong Zhang, graduate student at Beijing Normal University.

Yuan-Ye Zhang, Assistant professor at Xiamen University. BSc (2006, Beijing Normal University), PhD (2013, University of Bern).