



Katedry informatiky a aplikovanej informatiky  
Fakulty matematiky, fyziky a informatiky UK,  
Katedry biochémie a genetiky Prírodovedeckej fakulty UK,  
a občianske združenie *NATURA*



vás pozývajú na 75. prednášku v rámci Kuželových seminárov:

## Dr. Yan Zhou

Department of Microbiology and Microbial Engineering  
School of Life Sciences, Fudan University, China

&

Bioinformatics Division

Shanghai-MOST Key Laboratory of Health and Disease Genomics  
Chinese National Human Genome Center at Shanghai

### *Schistosoma japonicum* genome project – the gap between genomics and biology

ktorá sa uskutoční **19. novembra 2010** (piatok) o **13:00**  
v miestnosti **CH1-222** Prírodovedeckej fakulty UK

Návšteva Dr. Yan Zhou sa uskutočňuje v rámci bilaterálneho projektu APVV SK-CN-0007-09.  
Kuželove semináre sú podporované grantom Nadácie Tatra banky.

<http://www.naturaoz.org/seminare.html>

## Dr. Yan Zhou

### Education

1997-2002: PhD program, Department of Genetics, School of Life Sciences, Fudan University

1994-1997: Undergraduate, Department of Biochemistry, School of Life Sciences, Fudan University

### Research Experience

2008-present: Associate Prof., School of Life Sciences, Fudan University

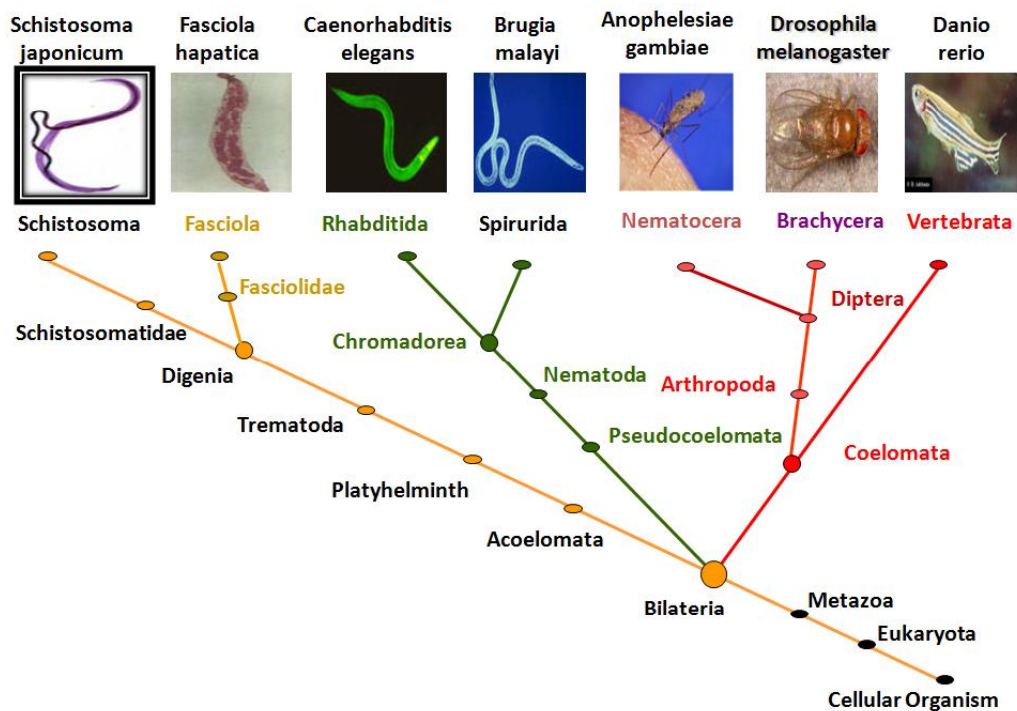
2005-present: Head of Bioinformatics Division, Chinese Human Genome Center at Shanghai

2002-2005: Deputy Director of Hangzhou Genomics Institute, and Head of Bioinformatics Division

2001: Consultant and Programmer, PPD Discovery, USA

### Topic

*Schistosoma japonicum* is a parasitic flatworm that causes human schistosomiasis, which is a significant cause of morbidity in China and the Philippines. A draft genome of the worm provides a global insight into the molecular architecture and host interaction of this complex metazoan pathogen, revealing that it can exploit host nutrients, neuroendocrine hormones and signaling pathways for growth, development and maturation. Notably, the *S. japonicum* genome encodes the growth factors, receptors and essential components to regulate many cellular processes during organogenesis and tissue development.



### Recent Publications

1. Dou TH, Xu JX, Gao Y, Gu JL, Ji CN, Xie Y, **Zhou Y\***. Evolution of peroxisome proliferator-activated receptor gamma alternative splicing. *Frontiers in Bioscience*. 2010; E2:1334-43.
2. **Zhou Y**, Zheng HJ, *et al*. The *Schistosoma japonicum* genome reveals features of host-parasite interplay. *Nature*. 2009; 460:345-51.
3. Xu T, Gu JL, **Zhou Y\***, Du LF. Improving detection of differentially expressed gene sets by applying cluster enrichment analysis to Gene Ontology. *BMC Bioinformatics*. 2009; 10:240.
4. Brejová B, Vinař T, Chen YY, Wang SY, Zhao GP, Brown DG, Li M, **Zhou Y\***. Finding Genes in *Schistosoma japonicum*: Annotating Novel Genomes with Help of Extrinsic Evidence. *Nucleic Acids Research*. 2009; 37:e52.
5. Xu T, Du LF, **Zhou Y\***. Evaluation of GO-based functional similarity measures using *S. cerevisiae* protein interaction and expression profile data. *BMC Bioinformatics*. 2008; 9:472