

Biography of Jizhong Zhou, Ph.D.

(As of 11-7-2015)

EDUCATION

BS	1978-1981	Plant Pathology & Entomology , Hunan Agricultural University, Changsha, China
MS	1982-1984	Mathematical Ecology , Hunan Agricultural University, Changsha, China,
Ph.D.	1990-1993	Molecular Biology , Washington State University, Pullman, WA
Postdoc	1993-1995	Microbial ecology , Center for Microbial Ecology, Michigan State University, East Lansing, MI, Advisor, James M. Tiedje
	1996-1997	Microbial ecology , Alexander Hollaender Distinguished Postdoctoral Fellow, Environmental Sciences Division, Oak Ridge National Laboratory (ORNL), Mentor, Anthony V. Palumbo

MAJOR PROFESSIONAL EXPERIENCE

2014-Present	George Lynn Cross Research Professor, Department of Microbiology and Plant Biology, University of Oklahoma, Norman, OK
2005-present	Director of the Institute for Environmental Genomics (IEG), University of Oklahoma, Norman, OK
2005-present	Presidential Professor, Department of Microbiology and Plant Biology, University of Oklahoma, Norman, OK
2006-present	Adjunct Senior Scientist, Lawrence Berkeley National Laboratory (LBL)
2009-present	Adjunct Professor, School of Environment, Tsinghua University, Beijing, China
2015-present	Visiting Professor, Nanyang Environment and Water Research Institute (NEWRI), Nanyang Technology University, Singapore
2013-2014	Visiting Professor, Department of Civil and Environmental Engineering, Stanford University
2013	Visiting Professor, Department of Civil and Environmental Engineering, University of California, Berkeley (Sabbatical leave)
2003-2005	Distinguished R&D Staff Scientist, Environmental Sciences Division (ESD), ORNL
2002-2005	Science Leader, Member of Science Council, Biological and Environmental Sciences Directorate/ESD, ORNL
2001-2002	Senior Staff Scientist, Environmental Sciences Division, ORNL
1997-2000	Staff Scientist, Environmental Sciences Division, ORNL

MAJOR AWARDS AND HONORS

2015	The Ernest Orlando Lawrence Award in Biological and Environmental Sciences in 2014 (U.S Department of Energy's highest scientific award established by President Dwight Eisenhower in 1959).
2014	George Lynn Cross Research Professor, the most prestigious honor for OU

- faculty
- 2010 One-Thousand Talent Scholar (Class B), the highest honor awarded by Chinese Government for overseas Chinese Scientists.
- 2010 Innovator of the year, recognizing Oklahoma's best new products and services by The Journal Record
- 2009 Specially Invited Oversea Chinese American Scientist by the State Government for witnessing the Grand Parade in Tian An Men Square for celebrating 60th Anniversary of China. The delegation was received by Former President Jindiao Hu and Former Premier Jiabao Wen.
- 2009 Outstanding Asian American for the Asia Society of Oklahoma
- 2009 R & D 100 Award for GeoChip development by R&D Magazine (R&D magazine presents awards annually to the 100 most innovative scientific and technical breakthroughs of the year).
- 2008 Fellow of American Association for the Advancement of Science.
- 2007-2010 Oversea Changjiang Scholar (One of the greatest awards for Oversea Chinese professionals), Chinese Ministry of Education.
- 2007-present Honorary Director for the Committee of Microbial Ecology, Chinese Society of Ecology
- 2006 Presidential professor, University of Oklahoma, Norman, OK
- 2005 Federal Laboratory Consortium (Southeast) award for Excellence in Technology Transfer
- 2005 Fellow of American Academy of Microbiology
- 2004 Outstanding Oversea Young Scientist (Highest award for overseas young scientist), Chinese National Science Foundation
- 2001 Presidential Early Career Award for Scientists and Engineers in 2001 from the President of the United States of America (The highest honor for young scientists and engineers in US)
- 2001 DOE Office of Science's 2001 Early Career Award for Scientists and Engineers.
- 2001 Environmental Sciences Division Distinguished Scientific Achievement Award, Oak Ridge National Laboratory
- 1996 Alexander Hollaender Distinguished Postdoctoral Fellow

Major professional service

- 2014-present Section Editor for Microbial Ecology and Evolution, BMC Microbiology
- 2009-present Editor for mBio®, A new ASM open source integrated Journal.
- 2003-2013 Editor, Applied and Environmental Microbiology,
- 2014-present Member of Steering Committee, NASA Omics Initiative, NASA, Wash DC
- 2011-2014 Member of Local Organizing Committee, The 15th International Symposium on Microbial Ecology (ISME-15)
- 2013-present Member of ASM International Board's Committee on Global Engagement (CGE).
- 2011-present Member of Environmental Microbiology Committee, Public and Scientific Affairs Board, ASM
- 2011-present Member of Selection Committee, William A. Hinton Research Training Award, ASM

2009-2014	Founder Chair, Board of Directors, the Overseas Chinese Society for Microbiology (Sino_Micro)
2009-2012	Member, Nominations Committee for the Promega Biotechnology Award, American Academy of Microbiology, American Society of Microbiology
2006-2009	Member of ASM International Committee - Task Force on China
2001	Panel member for preparing the roadmap for Genomes to Life program, US Department of Energy, in charge of writing Goal 3 on community genomics.
2001	Member of the Advisory Committee for Functional Genomics Initiative,
1999-2003	Netherlands Institute of Ecology, The Netherlands Chair for 7 th , 9 th , and 11 th International Conference on Microbial Genomes

Publications

Dr. Zhou has authored more than 450 publications, with total citations of > 23,000 and H-index of 78 based on Google Scholar, 67 based on Web of Science. More than **50** papers were published in the high profile journals, namely *Science*, *Nature Climate Change*, *PNAS*, *Nature Review in Microbiology*, *Nature Communications*, *mBio*, *Ecology Letters*, *PLoS Genetics*, *PLoS Pathogens*, and *The ISME Journal* by Nature Publishing Group. One of his papers, published in 1996, is among the 20 most cited papers (>2,300 times) in the history of *Applied and Environmental Microbiology* since 2008.

Invited Talks.

Since 1995, 420 talks were given for university seminars and international conferences in various countries, with more than 300 talks since last 10 years, including an ASM Divisional lecturer, and Australia Society for Microbiology Visiting Speaker for cruise lectures to various institutions, and Special keynote talk at Chinese Academy of Sciences under the special seminar series, "Sciences and China".

Funded Projects

Since moving from Oak Ridge National Lab to OU (2006), Dr. Zhou has had 33 projects in genomics and microbial ecology, and has received a total funding of >\$30M.

Major Research Interest

Dr. Zhou's expertise is in microbial ecology and genomics with current research focused on: **(i)** molecular community ecology and metagenomics, particularly of terrestrial soils and groundwater ecosystems important to climate changes and environmental remediation, **(ii)** experimental evolution and functional genomics of microorganisms important to environment and bioenergy, **(iii)** pioneering development of high throughput metagenomic technologies, particularly functional gene arrays for biogeochemical, environmental, and ecological applications, and **(iv)** theoretical ecology, particularly network ecology.

Fellowship and Consortium established

Dr. Zhou established a Fellowship (“Jizhong Zhou-Xiaoya Shi Award”)at the School of Environment, Tsinghua University, with main purposes to recognize excellent graduate students in microbial ecology, environmental science and engineering at Tsinghua University, and possibly award young microbial ecologists across China. Dr. Zhou also initiated the establishment of Global Water Microbiome Consortium (GWMC) as a platform to facilitate international collaboration and communication on research and education on global water microbiome studies