

Fengping Wang, Ph.D. Distinguished Professor, School of Science and Biotechnology, Shanghai JiaoTong University (SJTU), Shanghai, China

Education and Training

1992 HuaZhong Normal University, Biology, B.S.
1998 HuaZhong Agricultural University, Molecular Biology, Ph.D.

Working experiences and Appointments

1998-2003 Assistant Researcher, Third Institute of Oceanography (TIO), State Oceanic Administration (SOA), China
1999-2002 Post-Doc, Osnabrueck University, Germany
2003-2009 Senior Researcher, TIO, SOA
2006 Visiting professor at University of Georgia, Athens, USA
2009-2015 Professor, Shanghai JiaoTong University
2015-present Distinguished Professor, Shanghai JiaoTong University
2019-present Vice Dean, International center for deep life investigation

Honors

2009 Nominee of Award for Outstanding Young Woman Scientist in China
2015 Outstanding Young Scientist Award by Natural Science Foundation of China (NSFC)
2018 Jizhong Zhou Outstanding Scientist Award by Chinese Association of Microbial Ecology

Major research interests:

Geomicrobiology; Deep Biosphere; life-earth co-evolution

Attended Cruises:

August 2006. Gulf of Mexico Gas Hydrates. R/V Seaward Johnson II and Johnson Sea-Link Submersible
November 2009. Guaymas Cruise. R/V Atlantis and Alvin submersible
September to November 2011. IODP North Pond Expedition. R/V Joides Resolution
November 2014. East Pacific Rise. R/V Atlantis and Alvin submersible

Major Professional Service:

Scientific Steering Committee member of DL-DCO
(deep life - deep carbon observatory)
European community for ocean research drilling (ECORD), Facility Board Member (2019-2021)
International Society for Microbial Ecology (ISME), Ambassador (2017-); ISME, International Board (2020-2026)
Scientific Committee member of IODP-China
Associate editor for [Frontiers in marine molecular biology and ecology]
Editor for [Systematic and Applied Microbiology] (2019-), [Applied and Environmental Microbiology] (2020-2022)
Evaluating Committee member for NSFC at 2014, 2015, 2017,2019

Publications:

More than 90 peer reviewed publications in high-impact international journals including Nat Microbiol, ISME J, PNAS, Environ Microbiol, Appl Environ Microbiol, Geobiology, Sci Rep, Fron Microbiol.

More than 50 invited oral presentations in recent 5 years at various international and domestic meetings, such as Goldschmidt; AGU; Gordon Research Conference

List of representative publications:

Zhuang GC, Xu L, Liang Q, Fan X, Xia Z, Joye SB*, **Wang FP***. Biogeochemistry, microbial activity, and diversity in surface and subsurface deep-sea sediments of South China Sea. **Limnol Oceanogr**, 2019, doi.org/10.1002/lno.11182

Wang YZ, Wegener G, Hou JL, **Wang FP***, Xiao X*. Expanding anaerobic alkane metabolism in the domain of Archaea. **Nat Microbiol**, 2019, 4: 595–602.

Yu TT, Wu WC, Liang WY, Lever M, Hinrichs K, **Wang FP***. Growth of sedimentary Bathyarchaeota on lignin as an energy source, **Proc Natl Acad Sci USA**, 2018, <https://doi.org/10.1073/pnas.1718854115>

Niu MY, Fan XB, Zhuang GC, Liang QY, **Wang FP***. Methane-metabolizing microbial communities in sediments of the Haima cold seep area, northwest slope of the South China Sea, **FEMS Microbiol Ecol**, 2017, 93(9): fix101

He Y, Li M, Natarajan VP, Feng XY, Fang J, Xie JJ, Sievert SM, **Wang FP***. Genomic and enzymatic evidence for acetogenesis among multiple lineages of the archaeal phylum Bathyarchaeota widespread in marine sediments, **Nature Microbiol**, 2016, 1(6): 16035

Wang FP*, Zhang Y, Chen Y, He Y, Qi J, Hinrichs KU, Zhang XX, Xiao X*, Boon N. Methanotrophic archaea possessing diverging methane-oxidizing and electron-transporting pathways. **ISME J**, 2014, 8(5): 1069-1078

Meng J, Xu J, Qin D, He M, Xiao X, **Wang FP***. Genetic and functional properties of uncultivated MCG archaea assessed by metagenome and gene expression analyses, **ISME J**, 2014, 8(3): 650-659

Xie W, **Wang FP** (co-first author), Guo L, Chen ZL, Sievert SM, Meng J, Huang GR, Li YX, Yan QY, Wu S, Wang X, Chen SW, He GY, Xiao X, Xu AL. Comparative metagenomics of microbial communities inhabiting deep-sea hydrothermal vent chimneys with contrasting chemistries. **ISME J**. 2011; 5(3): 414-426.

Chen Y, **Wang FP** (co-first author), Xu J, Mehmood MA, Xiao X. Physiological and evolutionary studies of NAP systems in *Shewanella piezotolerans* WP3. **ISME J**. 2011; 5(5): 843-855.

Wang SF, Xiao X, Jiang LJ, Peng XT, Zhou HY, Meng J, **Wang FP***. Diversity and Abundance of Ammonia-Oxidizing Archaea in Hydrothermal Vent Chimneys of the Juan de Fuca Ridge. **Appl Environ Microbiol**. 2009; 75(12): 4216-4220.

Wang FP, Zhou HY, Meng J, Peng XT, Jiang LJ, Sun P, Zhang CL, Van Nostrand JD, Deng Y, He ZL, Wu LY, Zhou JZ, Xiao X. GeoChip-based analysis of metabolic diversity of microbial communities at the Juan de Fuca Ridge hydrothermal vent. **Proc Natl Acad Sci USA**. 2009; 106(12): 4840-4845.

Meng J, **Wang FP** (co-first author), Wang F, Zheng YP, Peng XT, Zhou HY, Xiao X. An uncultivated crenarchaeota contains functional bacteriochlorophyll a synthase. **ISME J**. 2009; 3(1): 106-116.