

Kamlesh Jangid

Postdoctoral Associate

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EDUCATION

- **Ph.D., Microbiology** National Centre for Cell Science, University of Pune, India, 2001 – 2005
- **M.Sc., Microbiology** Department of Microbiology, University of Pune, 1999 – 2001
- **B.Sc., Microbiology** University of Pune, India, 1996 – 1999

RESEARCH EXPERIENCE

- **Postdoctoral Associate**
University of Georgia, Athens, Feb 2006 onwards
Advisor: Prof. William B. Whitman
Impact of agricultural land management on soil microbial communities
- **Postdoctoral Researcher**
Ohio State University, Columbus, Jun 2005 – Jan 2006
Advisor: Prof. Irina Artsimovitch
Role of RfaH in RNA transcription
- **Graduate Research**
Advisor: Dr. Yogesh S. Shouche
Molecular taxonomy of genus *Aeromonas* and quorum sensing in *Aeromonas culicicola*
- **Masters Research**
Advisor: Dr. Nitin B. Kale
Transposon mutagenesis and effect of calcium on acid tolerance in *Acinetobacter junii* SC27

GRANTS

- Williams, M.A. (PI), **Jangid, K.**, and Whitman, W.B. Characterizing microorganisms during ecosystem development: Do soil microbial communities show patterns of succession? \$426 537 (KJ and WBW portion \$111 820). NSF. Sep 2008 - Aug 2011.
- Williams, M.A. (PI), Xia, K., **Jangid, K.**, Peterson, D., Saebo, S., and Whitman, W.B. Roles of mineralogy and biota in soil protein sequestration during ecosystem development. *Submitted to DOE Genomes to Life Program.*

FELLOWSHIPS, AWARDS & RECOGNITION

- Listed by invitation in the 64th edition of Marquis Who's Who in America- 2010
- Commended by the President, The University of Georgia for Selection in ASM Kadner Institute, 2007
- Research Fellow, Department of Biotechnology, Government of India, Sep 2001- May 2005
- University Grants Commission & Council of Scientific and Industrial research NET Award for Lectureship, Government of India, Jul 2001

- Research Fellow, Joint effort by Bhabha Atomic Research Center & University of Pune, India, Jun 2001 (declined)
- Dr. Wolf V. Vishniac Award in Microbiology, University of Pune, India, May 1999
- The Krishnaji Hari Joshi Palaspe Memorial Microbiology Award, University of Pune, India, May 1999
- Valedictorian, B.Sc. Microbiology, University of Pune, India, May 1999
- Valedictorian, University Chemical Society's CHEMIAD, K.T.H.M. College & University of Pune, India, Jan 1997

TEACHING EXPERIENCE

- Carbohydrate Utilization, IMViCs Tests, Diagnostic Biochemistry. MIBO 3500 Undergraduate Microbiology Course. *Fall 2009, University of Georgia, Athens.*
- Isolation and identification of novel soil bacteria. MIBO 4900 Undergraduate Microbiology Research Lab. *Fall 2006 onwards, University of Georgia, Athens.*
- Impact of Agricultural Land Management on Soil Microbial Communities. Statistics 8100 SAS Graduate Level Programming Course. *Jan 2007, University of Georgia, Athens.*
- Fundamentals of PCR and DNA Sequencing. First Year Master Students. *2002-2005, National Centre for Cell Science, India.*
- Demonstration of PCR. Second Year Master Students. *2003, Garware College, Pune, India.*
- Fundamentals of Microscopy. First Year Undergraduates. *1999, K.T.H.M. College, Nashik, India.*

STUDENT ADVISING & MENTORING

2 Graduate Students, 3 Master Students and 10 Undergraduate Students in past three years

INVITED SEMINARS

- Soil Microbial Ecology. The ASM Undergraduate Club. *Fall 2009, University of Georgia, Athens.*
- Molecular taxonomy of genus *Aeromonas* and quorum sensing in *Aeromonas culicicola*. *2005, Deolali College, Nashik, India.*
- Gene sequence analysis and AFLP: an answer to the confusing *Aeromonas* taxonomy. *2003, All India ABI Prism Sequencer Users Meet, Khandala, India.*

PUBLICATIONS (*Equal Contribution)

Postdoctoral Research

- Plaza, G. A., **Jangid, K.**, Gawior, K., and Wilk, K. Characterization of surface active properties of *Bacillus* strains growing in brewery's effluent medium. *Environmental Engineering. In review*
- **Jangid, K.**, Williams, M.A., Franzluebbbers, A.J., Blair, J.M., Coleman, D.C., and Whitman, W.B. Development of soil microbial communities during tallgrass prairie restoration. *Soil Biology & Biochemistry. In Press*
- Plaza, G.A., Kowalska, E., Radomska, J., Czerwosz, E., **Jangid, K.**, Gawior, K., Ulfig, K., and Janda-Ulfig, K. 2009. Effect of multiwalled carbon nanotubes on the growth of bacteria of the genus *Bacillus* and on the production of biosurfactants. *Ochrona Srodowiska* **31**: 21-24.
- **Jangid, K.**, Williams, M.A., Franzluebbbers, A.J., Sanderlin, J.S., Reeves, J.H., Jenkins, M.B., Endale, D.M., Coleman, D.C., and Whitman, W.B. 2008. Relative impacts of land-use, management intensity and fertilization upon soil microbial community structure in agricultural systems. *Soil Biology & Biochemistry* **40**: 2843-2853.

- Plaza, G. A., **Jangid, K.**, Łukasik, K., Nałęcz-Jawecki, G., Berry, C., and Brigmon, R. L. 2008. Reduction of petroleum hydrocarbons and toxicity in refinery wastewater by bioremediation. *Bulletin of Environmental Contamination and Toxicology* **81**: 329-333.
- Tarlera, S., **Jangid, K.**, Ivester, A. H., Whitman, W. B., and Williams, M. A. 2008. Microbial community succession and bacterial diversity in soils during 77 000 years of ecosystem development. *FEMS Microbiology Ecology* **64**: 129-140.

Predoctoral Research

- **Jangid, K.**, Kong, R., Patole, M. S., and Shouche, Y. S. 2007. *luxRI* homologs are universally present in the genus *Aeromonas*. *BMC Microbiology* **7**: 93.
- **Jangid, K.**, Patole, M.S., and Shouche, Y.S. 2005. *Yersinia pestis*: Is it a distinct species? *Current Science* **88**: 691-692.
- Pidiyar, V.J., **Jangid, K.**,* Patole, M.S., and Shouche, Y.S. 2004. Studies on cultured and uncultured microbiota of wild *Culex quinquefasciatus* mosquito midgut based on 16S rRNA gene analysis. *American Journal of Tropical Medicine and Hygiene* **70**: 597-603.
- **Jangid, K.**, Gurdeep, R., Patole, M.S., and Shouche, Y.S. 2004. *Methanobrevibacter*. Is it a potential pathogen. *Current Science* **86**: 1475-1476.
- Dighe, A.S., **Jangid, K.**, Gonzalez, J.M., Pidiyar, V.J., Patole, M.S., Ranade, D.R., and Shouche, Y.S. 2004. Comparison of 16S rRNA gene sequences of genus *Methanobrevibacter*. *BMC Microbiology* **4**: 20.
- Pidiyar, V.J., **Jangid, K.**, Patole, M.S., and Shouche, Y.S. 2003. Detection and phylogenetic affiliation of *Wolbachia* sp. from Indian mosquitoes *Culex quinquefasciatus* and *Aedes albopictus*. *Current Science* **84**: 1136-1139.
- Pidiyar, V.J., **Jangid, K.**, Patole, M.S., and Shouche, Y.S. 2003. Analysis of 16S-23S intergenic spacer regions and *rrn* operon copy number of *Aeromonas culicicola* MTCC 3249^T. *DNA Sequence* **14**: 183-194.
- Pidiyar, V.J., **Jangid, K.**, Dayanand, K.M., Kaznowski, A., Gonzalez, J.M., Patole, M.S., and Shouche, Y.S. 2003. Phylogenetic affiliation of *Aeromonas culicicola* MTCC 3249^T based on *gyrB* gene sequence and PCR–Amplicon Sequence Analysis of cytolytic enterotoxin gene. *Systematic and Applied Microbiology* **26**: 197-202.

Book Chapters

- Singleton, D.R., **Jangid, K.**, and Whitman, W. B. 2008. Origins of Microbial Life, p. 1-20. In R. Prince (ed.), *Microbiology in Pharmaceutical Manufacturing*, 2nd ed., vol. 1. DHI Publishing Ltd., Surrey UK.
- Plaza, G., Kowalska, E., Radomska, J., Czerwos, E., **Jangid K.**, Gawior, K., Ulfig, K., and Janda-Ulfig, K. 2008. Wpływ wielosciennych nanorurek węglowych na wzrost i produkcję biosurfaktantów bakterii z rodzaju *Bacillus*. p. 319-326. In B. Kolwzan & K. Garbas (eds.), *Ekotoksykologia w Ochronie Środowiska. Polskie Zrzeszenie Inżynierów i Techników Sanitarnych, oddział Dolnośląski. (Chapter in Polish). Title in English: Effect of multiwalled carbon nanotubes on growth and biosurfactant production of *Bacillus* strains. In Ecotoxicology in Environmental Protection. Polish Association of Sanitation Engineers.*

Posters: Total 11 posters presented since 2003 at various National and International conferences

PROFESSIONAL ACTIVITIES

Grant Reviewing

Ad-hoc Reviewer US-National Science Foundation, Reviewer US-Binational Science Foundation

Manuscript Reviewing

Canadian Journal of Microbiology, FEMS Microbiology Ecology, Journal of Basic Microbiology, Land Degradation & Development, Microbial Ecology, Soil Biology & Biochemistry, Soil Science & Plant Nutrition, The ISME Journal, Veterinary Microbiology

Editorial Board Member

African Journal of Microbiology Research

Affiliations & Memberships

The American Association for the Advancement of Science, The American Society for Microbiology, The Academy of the Environment at The University of Georgia

COURSES & WORKSHOPS ATTENDED

- Entering Mentoring Workshop. 2008. *University of Georgia, Athens*
- ASM Kadner Institute. 2007. *University of Colorado, Boulder*
- 2nd Annual Computational and Systems Biology Symposium. 2007. *University of Georgia, Athens*
- Academy of Environment Symposium. 2006. *University of Georgia, Athens*
- Institute of Bioinformatics Summer School. 2006. *University of Georgia, Athens*
- Department of Statistics 6310 course. 2006. *University of Georgia, Athens*

PUBLIC SERVICE & OUTREACH

K-12 Education

As part of the NSF outreach program, I volunteer at the local elementary school for demonstration of microbiology experiments to 5th graders and teachers. By providing the first-hand exposure to classroom teachers and students, this program offers the skills and knowledge necessary for the preparation of our future workforce: the students currently in Georgia's classrooms.

Science Fair Judge

- David C. Barrow Elementary School, Athens GA, 2007
- Georgia State as well as Regional Science and Engineering Fair, Athens GA, 2008

Faculty Co-advisor

- Indian Students Association, University of Georgia, Athens, 2008-2009 and 2009-2010

Postdoc Subcommittee Member

- Graduate Students and Postdocs in Science, University of Georgia, Athens, 2009-2010