#### **BABU Z. FATHEPURE**

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### (a) Professional Preparation

Karnatak University	Dharwad, India	Chemistry	BSc. 1976.
Karnatak University	Dharwad, India	Biochemistry	MSc. 1978
Indian Inst. of Science	Bangalore, India.	Environ. Microbiology	Ph.D 1985
Michigan State Univ.	East Lansing, MI.	Environ. Microbiology	Post-doc 1985

## (b) Appointments

2019 - Present	Professor, Dept. of Microbiology and Molecular Genetics, Oklahoma State University,
	Stillwater, OK.
2006- 2019:	Associate Professor, Dept. of Microbiology and Molecular Genetics,
	Oklahoma State University, Stillwater, OK.
2007-2007:	Visiting Scientist, Sabbatical w/ Norman Pace. University of
	Colorado, Boulder
2000 -2006:	Assistant Professor, Dept. of Microbiology and Molecular Genetics,
	Oklahoma State University, Stillwater, OK
1994-2000:	Associate Research Scientist, Univ. of Michigan, Ann Arbor, MI
1991-1994:	Senior Scientist, Conoco, Inc /Dupont, Ponca City, OK.
1007 1001.	Visiting Assistant Professor Dont of Civil and Environmental Engineering Michigan

1987-1991: Visiting Assistant Professor, Dept. of Civil and Environmental Engineering Michigan

State University, East Lansing, MI

## (c) Products

#### (i) Related Publications

- 1. Adetitun, D.O., **Fathepure**, **B.Z.**, Kolawole, O., Olayemi, A., Hugh, H (2018). Degradation of hydrocarbons and lignin-like compounds by *Alcaligenes* sp. strain 3k isolated from Ilorin. *Pollution* 5: 269-277
- 2. Paniagua-Michel, J., **Fathepure**, **B.Z** (2018). Microbial consortia and biodegradation of petroleum hydrocarbons in marine environments. *In*: Microbial Action on Hydrocarbons (1-20). V Kumar, M Kumar, and R Prasad (Eds). *Springer Singapore*.
- 3. Adetitun, D.O., Olayemi, A.B., Kolawole, O.M., **Fathepure,** B.Z (2016). Molecular identification of hydrocarbon degrading bacteria isolated from alfisol-loam experimentally contaminated with gasoline. *Biokemistri*. 28: 135-143.
- 4. Dalvi, S., Youssef, N.H., **Fathepure**, **B.Z** (2016). Microbial community structure analysis of a benzoate-degrading halophilic archaeal enrichment. *Extremophiles*. 20: 311-321.
- 5. **Fathepure, B. Z.** (2014). Recent studies in microbial degradation of petroleum hydrocarbons in hypersaline environments. *Front Microbiol* 5: 173.

## (ii) Other Significant Publications

- 1. **Fathepure**, **B.Z** (2015). Recent studies in microbial degradation of petroleum hydrocarbons in hypersaline environments. In: Proceedings of Halophiles 2013: The international congress on halophilic microorganisms. R. Thane Papke, Aharon Oren, Antonio Ventosa and Jesse G. Dillon (*Eds*). Published in Frontiers in Microbiology. pp 35-50.
- 2. Heenan, J., Slater, L. D., Ntarlagiannis, D., Atekwana, E.A., **Fathepure, B.Z.**, Dalvi, S., Ross, C., Werkema, D.D., and Atekwana, E.A (2015). Electric resistivity imaging for long-term autonomous monitoring of hydrocarbon degradation: Lessons from the deepwater horizon oil spill. *Geophysics* 80 (1).
- 3. Dalvi, S., Azetsu, S., Patrauchan, M.A., Aktas, D.F., and **B. Z. Fathepure** (2012). Proteogenomic elucidation of the initial steps in the benzene degradation pathway of a novel halophile, *Arhodomonas* sp. strain Rozel, isolated from a hypersaline environment. *Appl Environ Microbiol* 78: 7309-7316.
- 4. Sei, A. and **Fathepure**, **B. Z** (2009). Biodegradation of BTEX at high salinity by an enrichment culture from hypersaline sediments of Rozel Point at Great Salt Lake. J Appl Microbiol 107(6): 2001-2008
- 5. Elango, V. K., Liggenstoffer, A. S., and **Fathepure**, **B.Z** (2006). Biodegradation of vinyl chloride and cis-dichloroethene by a Ralstonia sp. strain TRW-1. *Appl Microbiol Biotechnol* 72: 1270-1275.

# (d) Synergistic Activities

- 1. Mentored high-school; mentored undergraduate students enrolled in the Howard Hughes, Wentz, Niblack, and OK-LSAMP minority programs; hosted faculty and research scientists from the Creighton University (NE), Kansas State University (KS), Northeastern State University (OK), and Central Institute for Research on Goats, India.
- 2. Editorial board: Applied and Environmental Microbiology; Ad-hoc Reviewer for numerous microbiology and environmental science journals.
- 3. External reviewer for Oklahoma Water Resources Research Institute (OWRRI), U.S. –Israel Binational Science Foundation (BSF), USDA, SERDP, DoD, EPSCoR (State of Louisiana)
- 4. Panel reviewer for NSF -GRFP, EPA-STAR, NSF
- 5. Member: Interdisciplinary Toxicology Program (Vet Medicine, OSU), Soil Biology Interest Group (Ag College, OSU), BIOPEC (Biobased Products and Energy Center, Ag College, OSU), and Produced Water Research Team, OSU