

BIOGRAPHICAL SKETCH

Slava S. Epstein

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MAJOR RESEARCH INTERESTS:

- microbial diversity, ecology and evolution
- environmental microbiology
- molecular microbiology

PROFESSIONAL PREPARATION:

M.S. in Marine Biology and Ecology; Moscow State University, USSR (1981)
Ph.D. in Microbial Biology; Shirshov Institute of Oceanology, Academy of Sciences of the USSR (1986)
Postdoctoral Fellow (microbial ecology and diversity), Institute of Marine Biology of the Academy of Sciences of the USSR (1986-1988), UMass/Boston (1990-1991)

APPOINTMENTS:

2008-pres. Professor, Department of Biology, Northeastern Univ., Boston, MA
2004-2008 Associate Professor, Department of Biology, Northeastern Univ., Boston, MA
1998-2004 Assistant Professor, Department of Biology, Northeastern Univ., Boston, MA
1997 Fulbright Senior Scholar, Institute of Marine Biology of Crete, Crete, Greece
1993-pres. Senior Scientist, Marine Science Center, and Adjunct Assistant Professor, Department of Biology; Northeastern University, Boston
1993 Visiting Scientist, Max Planck Institute for marine Microbiology, Germany
1992-1993 Visiting Scientist and Lecturer, Northeastern University, Boston
1991-1992 Assistant Scientist, Center for Great Lakes Studies, University of Wisconsin

PUBLICATIONS

10 selected publications:

- Buerger, S., A. Spoering, E. Gavrish, C. Leslin, L. Ling, and S. S. Epstein (2012a). Microbial scout hypothesis, stochastic exit from dormancy, and the nature of slow growers. *Appl Environ Microbiol* 78: 3221-3228
- Buerger, S., A. Spoering, E. Gavrish, C. Leslin, L. Ling, and S. S. Epstein (2012b). Microbial scout hypothesis and microbial discovery. *Appl Environ Microbiol* 78: 3229-3233
- D'Onofrio, A., Crawford, J.M., Stewart, E.J., Witt, K., Gavrish, E., Epstein, S., Clardy, J., Lewis, K. (2010). Siderophores from neighboring organisms promote the growth of uncultured bacteria. *Chem. Biol.* 17: 254-264.

- Epstein, S.S., Lewis, K., Nichols, D., and Gavrish, E. (2010). New approaches to microbial isolation. In: Manual of Industrial Microbiology and Biotechnology, (eds.) R.H. Baltz, A.L. Demain, and J.E. Davies. Washington, DC, ASM, pp. 3-12.
- Epstein, S.S. (2009) Microbial awakenings. *Nature* 457: 1083.
- Epstein, S.S. (2009) General model of microbial uncultivability, in *Uncultivated Microorganisms*, (Ed. S.S. Epstein). Series: Microbiology Monographs (Series Ed. Alexander Steinbuchel), Vol. 10; Springer Berlin / Heidelberg, 131-150.
- Hong, S.-H., Bunge, J., Leslin, C., Jeon, S.-O., and Epstein, S.S. (2009). Polymerase chain reaction primers miss half of rRNA microbial diversity. *ISME J.* 3: 1365-1373.
- Nichols D., Lewis, K., Orjala, J., Mo, S., Ortenberg, R., O'Connor, P., Zhao, C., Vouros, P., Kaeberlein, T., and Epstein, S.S. (2008) Short peptide induces an "uncultivable" microorganism to grow in vitro. *Appl. Environ. Microbiol.*, 74: 4889-4897
- Hong, S.-H., Bunge, J., Jeon, S.-O., and Epstein, S.S. (2006). Predicting microbial species richness. *PNAS* 103: 117-122
- Kaeberlein, T., K. Lewis, and S. S. Epstein (2002) Isolating "uncultivable" microorganisms in pure culture in a simulated natural environment. *Science* 296: 1127-1129

SYNERGISTIC ACTIVITIES:

- Chair, Division N Microbial Ecology of the American Society for Microbiology
- Member of the Editorial Board, *Applied and Environmental Microbiology* (4th term)
- Member of the Editorial Board, *Journal of Eukaryotic Microbiology*
- Member of the Editorial Board, *Frontiers in Microbiology*
- International Society for Microbial Ecology's Ambassador to the US (4th term).

COLLABORATORS AND OTHER AFFILIATIONS:

Collaborators and Co-Editors

J.Bunge (Cornell Univ.), S.Brown (Oak Ridge National Lab), J.Clardy (Harvard Univ.), V.Edgcomb (WHOI), R.Kolter (Harvard Univ.), K.Lewis (Northeastern Univ.), A.Palumbo (Oak Ridge National Lab), B. Paster (Forsyth Dental School), D.Patterson (MBL), G.Taylor (SUNY), D.Ward (Broad Institute)

Graduate and Postdoctoral Advisors:

Dr. M.P.Shiaris, University of Massachusetts/Boston
 Dr. M.E. Vinogradov, Shirshov Institute of Oceanology, Moscow, Russia

Thesis Advisor and Postgraduate-Scholar Sponsor

MS and PhD students: 15; Postdoctoral fellows: 7
 Current: M.Sizova (Senior Scientist), Y.Aoi (Research Scholar); B. Berdy; A.Chilaka, P.Muller; D. Stancyk (graduate students) Within last 5 years but not current: A.Bollmann (Miami Univ.), S.Buerger (Northeastern Univ.) D.Nichols (Suffolk Univ.), J.Orjala (University of Illinois), W.Orsi (WHOI), R.Ortenberg (Northeastern Univ.).