

James Tiedje

Distinguished Professor of Microbiology and Molecular Genetics and of Plant, Soil and Microbial Sciences at Michigan State University

East Lansing, MI, US

Expert in Antibiotic Resistance

Biography

Dr. Tiedje is University Distinguished Professor of Microbiology and Molecular Genetics, and of Plant, Soil and Microbial Sciences, and is Director of the Center for Microbial Ecology at Michigan State University. His research focuses on microbial ecology, physiology and diversity, especially regarding the nitrogen cycle, biodegradation of environmental pollutants and use of molecular methods to understand microbial community structure and function. His group has discovered several microbes that biodegrade chlorinated pollutants and is using genomics to better understand microbial functions in their environment. He has served as Editor-in-Chief of Applied and Environmental Microbiology and Editor of Microbial and Molecular Biology Reviews. He has over 500 refereed publications including seven in Science and Nature. He shared the 1992 Finley Prize from UNESCO for research contributions in microbiology of international significance, is Fellow of the AAAS (The American Association for the Advancement of Science), the American Academy of Microbiology, and the Soil Science Society of America, and is a member of the U.S. National Academy of Sciences. He was President of the American Society for Microbiology and the International Society for Microbial Ecology. He received his B.S. degree from Iowa State University and his M.S. and Ph.D. degrees from Cornell University.

Industry Expertise

Education/Learning, Research, Biotechnology, Chemicals

Areas of Expertise

Molecular Biology, Microbial Ecology, Metagenomics, Soil Microbiology, Denitrification, Biodegradation, Bioremediation, Permafrost Microbiology, Anaerobic Processes, Antibiotic Resistance Gene Ecology

Education

Cornell University

Ph.D. Soil Microbiology and Biochemistry

Iowa State University

B.S. Agronomy

Accomplishments

Finley Prize

Awarded by UNESCO

[Please click here to view the full profile.](#)

This profile was created by [Expertfile.](#)