**CURRICULUM VITAE**

 **William B. Whitman**

**Address:** Department of Microbiology

University of Georgia

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**Education**:

Bachelor of Science, 1973, from the Department of Biological Sciences, State University of New York at Stony Brook.

Doctor of Philosophy, 1978, from the Department of Microbiology, University of Texas at Austin. Advisor: F. Robert Tabita.

Postdoctoral work, Department of Microbiology, University of Illinois, 1978 - 1982. Advisor: Ralph S. Wolfe.

**Academic Positions:**

Distinguished Research Professor of Microbiology, University of Georgia, 2011-present

Head, Department of Microbiology, University of Georgia, 2006-2012

Professor of Microbiology, University of Georgia, 1993-present

Associate Professor of Microbiology, University of Georgia, 1988-1993

Assistant Professor of Microbiology, University of Georgia, 1982-1988

Graduate Faculty, University of Georgia, 1984-present

Joint appointed Department of Biochemistry, University of Georgia, 1986-present

Joint appointed Department of Marine Science, University of Georgia, 1993-present

**Membership in Professional Societies:**

American Association for the Advancement of Science, 1975-present

American Society for Microbiology, 1975-present

Southeastern branch, American Society for Microbiology, 1982-present

American Society of Biological Chemistry, 1982-1995

American Academy of Microbiology, 1994- present

Bergey’s International Society for Microbial Systematics, 2010-present

**Other Professional Service:**

Secretary, ICSB Subcommittee on the taxonomy of methanogenic bacteria, 1986-2001

Advisory Board, N.I.H. Stable Isotope Resource at Los Alamos, 1988-1995

Editorial Board, Journal of Bacteriology, 1989-1994

Panel Member, NSF program in Cellular Biochemistry, 1992-1994

Associate Editor, International Journal of Systematic Bacteriology, 1995-2001

Co-chair (with A. Klein) of Gordon Research Conference on Archaea: Ecology, Metabolism and Molecular Biology; Plymouth State, Colorado, 1996

Panel Member, DOE Energy Biosciences, 1998

Co-organizer (with D. Soll) of Keystone Symposium entitled Archaea: Bridging the Gap Between Bacteria and Eukarya, Taos, New Mexico, 1999

Franklin College Outreach Program, 1995-2003

Panel Member, NSF program in Systematics, 2002

Chair, Division I (General Microbiology), American Society for Microbiology 2003

Co-organizer (with D.C. Coleman and C.Y. Chiu) International symposium on impacts of soil biodiversity on biogeochemical processes in ecosystems. Taipei, Taiwan, 2004.

Panel Member, DOE program in Microbial Genomics, 2004

Advisory Committee, ATCC Bacteriology Program, 2004

Advisor, NRC meetings on Microbial Forensics, 2004

Co-organizer (with J. Leigh) ASM Symposium entitled Genes to proteins in Archaea, Boston, 2008

Panel Member, AAM Workshop, Large Scale Sequencing, Washington, DC, 2008.

Program review, Department of Microbiology, North Carolina State, May 2011

Panel Member, JGI Community Sequencing Program, August 2011

Panel Member, JGI Quarterly Call Community Sequencing Program, September 2012

Panel Member, JGI Quarterly Call Community Sequencing Program, January 2014

Panel Member, JGI Community Sequencing Program, June 2014

Panel Member, National Science Foundation, February 2015

Panel Member, JGI Community Sequencing Program, July 2015

Panel Member, JGI Community Sequencing Program, December 2015

Board, Bergey’s Manual Trust, 2006-present

Supervising Editor, Bergey’s Manual Trust, 2006-present

Treasurer, Bergey’s International Society for Microbial Systematics, 2010-present

Member, Scientific Advisory Board, Biodiversity Research Center at Academica Sinica, Taiwan, 2013-present.

Editor, Archaea, 2013-present

Treasurer, International Committee for Systematics of Prokaryotes, 2014-present

**Outreach:**

Judge, Georgia State High School Science Fair, 1995, 1998, 2000-2010, 2012-2013

Judge, Clarke County School Science Fair, 2002, 2004-2010, 2016

Judge, Barrow Elementary School Science Fair, 2007-2008

Franklin College Outreach Program, 1995-2002 (lectures on Microbiology in elementary schools)

Microbiology demonstrations at local schools:

 Chase Elementary School, 2003

 Clarke County Middle School, 2003

 UGA Day for Clarke County Schools, 2005

 Whit Davis Elementary School, Spring and Fall, 2008, Fall 2009, 2015, 2017

 Fowler Drive Elementary School, Fall 2009-2014

 PAL programs at Fowler Drive and Chase Elementary School, 2016, 2017

**Honors:**

National Research Service Award, NIH-PHS Postdoctoral Fellowship, February 1979

Presidential Young Investigator Award, June 1984

Achievement Award for New Scholars, 1985, Southern Conference of Graduate Schools

Fellow, 1995, American Academy of Microbiology

Bergey’s Award, Bergey’s Manual Trust, 2000

P.R. Edwards Award, Southeastern Branch of the American Society for Microbiology, 2000

Robert G. Eagon Award, Southeastern Branch of the American Society for Microbiology, 2004

Fellow, American Association for the Advancement of Science, 2006

USFCC/J.Roger Porter Award, American Society for Microbiology, 2010

Distinguished Research Professor, University of Georgia, 2011

Chinese Academy of Sciences Visiting Professorship for Senior International Scientists, Institute of Microbiology, Laboratory of Xiuzhu Dong, 2013

**Dissertations Directed:** Ph.D., University of Georgia

Jer Song Shieh (1988) Carbon metabolism in methanococci.

Jonathan Ladapo (1990) Investigation of wild type and acetate auxotrophic mutants of *Methanococcus maripaludis.*

RuYe Xing (1992) Branched-chain amino acid biosynthetic pathway of archaebacterium *Methanococcus* spp.

Peter Godfrey Simpson (1993) Investigation of amino acid metabolism in *Methanococcus voltae*.

Timothy Bowen (1993) The development of a genetics system for *Methanococcus*.

Yu-Ling Yang (1994) Investigation of pyruvate oxidation regulation of *Methanococcus*.

Jyoti Keswani (1994) Use of molecular approaches for identification and classification of the methane producing archaea, *Methanococcus*.

Debra Lynn Tumbula (1997) Development of genetic methods for *Methanococcus maripaludis*.

Jae-Pil Yu (1997) Investigation of autotrophy in *Methanococcus maripaludis*.

Warren Gardner (2000) Expression vectors for the methane-producing archaeon *Methanococcus maripaludis*.

Michelle Furlong (2000) Bacterial communities in natural ecosystems: groundwater, soil, and earthworm casts and burrows.

David Singleton (2002) Prokaryotic communities associated with the earthworm *Lumbricus rubellus* and the agricultural soil it inhabits.

Winston Lin (2002) Investigation of the anabolic pyruvate oxidoreductase and the function of PorEF in *Methanococcus maripaludis*.

Kamyar Farahi (2002) Investigation of the evolution of the aminoacyl-tRNA synthetases by the ratios of evolutionary distance method.

Wonduck Kim (2003) Genetic studies of carbon dioxide fixation in the methane-producing archaeon *Methanococcus maripaludis*.

Tiffany Major (2006) The role of the energy conserving hydrogenase B in autotrophy and the characterization of sulfur metabolism in *Methanococcus maripaludis*

James Henriksen (2008) Physiology of DMSP metabolism in a model marine roseobacter, *Silicibacter pomeroyi*.

Yuchen Liu (2010) Adaptations of *Methanococcus maripaludis* to its unique lifestyle.

Chris Reisch (2011) Metabolism of DMSP by *Ruegeria pomeroyi*.

Felipe Andres Sarmiento Boban (2013) Genome-wide survey of gene functionality for the methanogenic archaeon *Methanococcus maripaludis*

Hannah Bullock (2016) Methylmercaptopropionate-CoA ligase and methythioacryloyl-CoA hydratase from the dimethylsulfoniopropionate demethylation pathway

**Current Doctoral Students**:

Taiwo Akinyemi

Feng Long

Nana Shao

Tao Wang

Joseph Wirth

**Thesis Directed:** M.S. University of Georgia

See Hyang Sohn (1985) The regulation of the incorporation of isoleucine, leucine and acetate in *Methanococcus voltae*.

RuYe Xing (1988) Sulfometuron methyl sensitive and resistant acetolactate synthase of the archaebacterium *Methanococcus.*

Yu-Ling Yang (1989) Pyruvate oxidation in *Methanococcus* species.

Brian Waters (2002) Investigation of 2-oxoacid oxidoreductases in *Methanococcus maripaludis* and large scale growth of *M. maripaludis*.

Rima Upchurch (2006) Analyses and comparison of bacterial communities with different land managements.

Shiyao Wang (2009) The diverse microbial community in Sapelo Island and study on the pathway of DMSP degradation in marine bacteria.

Warren Crabb (2013) Metabolism of organosulfur compounds in *Ruegeria pomeroyi* DSS-3

**Postdoctoral Research Associates:**

Usha Premachandran (1985-1986) Indian Agricultural Institute, New Delhi

Neil Schauer (1985-1986) Virginia Polytechnical Institute

Mostafa Mesbah (1986-1988) University of Bradsford, England

Sang Ho Park (1992-1994) Montana State University

Iain Anderson (1998-2000) University of Wisconsin, Madison

Iris Porat (2002-2009) Ben-Gurion University, Israel

Boguslaw Lupa (2005-2010) Jagiellonian University, Krakow, Poland

Kamlesh Jangid (2006-2011) University of Pune

Laura Beer (2011-2012) University of Arizona

Yixuan Zhu (2012-2013) University of Gerogia

Zhe Lv (2012- present) China Agricultural University

Qiuyuan Huang (2014-2017) Miami University (Ohio)

Hao Shi (2014-2016) Nanjing Forestry University

**Visiting Colleagues:**

Mostafa Mesbah (1989-1990) University of Assiut, Egypt

Vigdis Torsvik (1990-1991) University of Bergen, Norway

Terje Torsvik (1990-1991) University of Bergen, Norway

Karin Everett (2002)

Chih-Yu Chiu (2002) Academica Sinica, Taiwan

Suresh Korpole (2007-2008) Institute of Microbial Technology, Chandigarh, India

Siti Chaerun (2008-2009) Institute Technologi Bandung, Indonesia

Soon Dong Lee (2009-2010) Cheju National University, Jeju, Republic of Korea.

Murali Gopal (2010) Central Plantation Crops Research Institute, Kasaragod , India

Alka Gupta (2010) Central Plantation Crops Research Institute, Kasaragod , India

Sanjib Manna (2011) Central Inland Fisheries Research Institute (ICAR), Barrackpore, India

Mingguo Jiang (2011-2012) Guangxi University for Nationalities, China

Masood Siddiqui (2012) University of Balochistan, Quetta, Pakistan

Xun Li (2013) Nanjing Forestry University

Wang Liang Liang (2013) Nanjing Forestry University (doctoral student)

JinHua Wang (2014) Southwest Forestry University, Kumming

**Research Interests:**

Prokaryotes are the dominant form of life on earth, representing an enormous biomass and number of individual cells. They are so diverse that it is misleading to give them a common name, and they are really just what are left after the familiar plants, animals, fungi and protists are named. They are the engines that make the biosphere and the ancestors to all modern life. Their evolution established the central plan for the living cell. Research in our laboratory uses an integrated approach to understand the nature of free-living prokaryotes. We believe that studying the ecology, systematics, physiology, biochemistry, and molecular biology together provide the best understanding for these microorganisms. Likewise, the history or evolution of an organism provides insight into the modern organism. We have used these approaches to study the carbon metabolism of the methane-producing archaeon Methanococcus, the sulfur metabolism of the marine alphaproteobacterium *Ruegeria*, and the impact of agriculture on soil bacterial communities.

**Research Articles**:

Whitman, W. and F. R. Tabita (1976) Inhibition of D-ribulose 1,5-bisphosphate carboxylase by pyridoxal 5'-phosphate. Biochem. Biophys. Res. Commun. *71*:1034-1039.

Whitman, W. B. and F. R. Tabita (1978) Modification of *Rhodospirillum rubrum* ribulose bisphosphate carboxylase with pyridoxal phosphate. 1. Identification of a lysyl residue at the active site. Biochem. *17:*1282-1287.

Whitman, W. B. and F. R. Tabita (1978) Modification of *Rhodospirillum rubrum* ribulose bisphosphate carboxylase with pyridoxal phosphate. 2. Stoichiometry and kinetics of inactivation. Biochem. *17*:1288-1293.

Tabita, F. R., P. Caruso and W. Whitman (1978) Facile assay of enzymes unique to the Calvin cycle in intact cells, with special reference to ribulose 1,5-bisphosphate carboxylase. Anal. Biochem. *84*:462-472.

Whitman, W. B., C. Colletti, and F. R. Tabita (1979) Activation of spinach ribulose bisphosphate carboxylase by pyridoxal phosphate. FEBS Lett. *101*:249-252.

Whitman, W. B., M. N. Martin and F. R. Tabita (1979) Activation and regulation of ribulose bisphosphate carboxylase-oxygenase in the absence of small subunits. J. Biol. Chem. *254*:10184-10189.

Robison, P. D., W. B. Whitman, F. Waddill, A. F. Riggs and F. R. Tabita (1980) Isolation and sequence of the pyridoxal 5'-phosphate active-site peptide from *Rhodospirillum rubrum* ribulose-1,5-bisphosphate carboxylase/oxygenase. Biochem. *21*:4848-4853.

Whitman, W. B. and R. S. Wolfe (1980) Presence of nickel in factor F430 from *Methano­bacterium bryantii*. Biochem. Biophys. Res. Commun. *92*:1196-1201.

Whitman, W. B., E. Ankwanda and R. S. Wolfe (1982) Nutrition and carbon metabolism of *Methanococcus voltae*. J. Bacteriol. *149*:852-863.

Ellefson, W. L., W. B. Whitman and R. S. Wolfe (1982) Nickel-containing factor F430:Chromo­phore of the methylreductase of *Methanobacterium*. Proc. Natl. Acad. Sci. USA *79:*3707-3710.

Keltjens, J. T., W. B. Whitman, C. G. Caerteling, A. M. van Kooten, R. S. Wolfe and G. D. Vogels (1982) Presence of coenzyme M derivatives in the prosthetic group (coenzyme MF430) of methylcoenzyme M reductase from *Methanobacterium thermoautotrophicum*. Biochem. Biophys. Res. Commun. *108*:495-503.

Whitman, W. B. and R. S. Wolfe (1983) Activation of the methylreductase system from *Methanobacterium bryantii* by ATP. J. Bacteriol. *154*:640-649.

Jones, W. J., W. B. Whitman, R. D. Fields and R. S. Wolfe (1983) Growth and plating efficiency of methanococci on agar media. Appl. Environ. Microbiol. *46*:220-226.

Wood, A. G., A. H. Redborg, D. R. Cue, W. B. Whitman and J. Konisky (1983) Complementation of the *arg*G and *his*A mutations of *Escherichia coli* by DNA cloned from the archaebacterium *Methanococcus voltae*. J. Bacteriol. *156*:19-29.

Whitman, W. B. and R. S. Wolfe (1984) Purification and analysis of cobamides of *Methanobacterium bryantii* by high-performance liquid chromatography. Anal. Biochem. *137*:261-265.

Wood, A. G., W. B. Whitman and J. Konisky (1985) A newly-isolated marine methanogen harbors a small cryptic plasmid. Arch. Microbiol. *142*:259-261.

Whitman, W. B. and R. S. Wolfe (1985) Activation of the methylreductase system from *Methanobacterium bryantii* by corrins. J. Bacteriology *164*:165-172.

Whitman, W. B., J.-S. Shieh, S.-H. Sohn, D. S. Caras and U. Premachandran (1986) Isolation and characterization of 22 mesophilic methanococci. System. Appl. Microbiol. *7*:235-240.

Whitman, W. B. and R. S. Wolfe (1987) Inhibition by corrins of the ATP-dependent activation and CO2 reduction by the methylreductase system in *Methanobacterium bryantii*. J. Bacteriol. *169*:87-92.

Bowen, T. L. and W. B. Whitman (1987) Incorporation of exogenous purines and pyrimidines by *Methanococcus voltae* and isolation of analog resistant mutants. Appl. Environ. Microbiol. *53*:1822-1826.

Xing, R. Y. and W. B. Whitman (1987) Sulfometuron methyl sensitive and resistant acetolactate synthases of the archaebacteria *Methanococcus* spp. J. Bacteriol. *169*:4486-4492.

Whitman, W. B., S. H. Sohn, S. U. Kuk and R. Y. Xing (1987) Role of amino acids and vitamins in nutrition of mesophilic *Methanococcus* spp. Appl. Environ. Microbiol. *53*:2373-2378.

Shieh, J. S. and W. B. Whitman (1987) Pathway of acetate assimilation in autotrophic and heterotrophic methanococci. J. Bacteriol. *169*:5327-5329.

Franklin, M. J., W. J. Wiebe and W. B. Whitman (1988) Populations of methanogenic bacteria in a Georgia salt marsh. Appl. Environ. Microbiol. *54*:1151-1157.

Shieh, J. S. and W. B. Whitman (1988) Acetyl Coenzyme A Biosynthesis in *Methanococcus* *maripaludis*. J. Bacteriol. *170*:3072-3079.

Shieh, J. S., M. Mesbah and W. B. Whitman (1988) Pseudoauxotrophy of *Methanococcus voltae* for acetate, leucine, and isoleucine. J. Bacteriol. *170*:4091-4096.

Wood, A. G., W. B. Whitman and J. Konisky. (1989). Isolation and characterization of an archaebacterial virus-like particle from *Methanococcus voltae* A3. J. Bacteriol. *171*:93-98.

Mesbah, M., U. Premachandran and W. B. Whitman (1989). Precise measurement of the G+C content of deoxyribonucleic acid by high-performance liquid chromatography. Inter. J. System. Bacteriol. *39*:159-167.

Schauer, N. L. and W. B. Whitman (1989) Formate growth and pH control by volatile formic and acetic acids in batch cultures of methanococci. J. Microbiol. Meth. *10*:1-7.

Mesbah, M. and W. B. Whitman (1989) Measurement of deoxyguanosine/thymidine ratios in complex mixtures by HPLC for determination of the mole % G+C of DNA. J. Chromatogr. *479*:297-306.

Devereux, R., S.-H. He, C. L. Doyle, S. Orkland, D. A. Stahl, J. LeGall and W. B. Whitman (1990) Diversity among *Desulfovibrio* species determined by comparative 16S and 23S sequence analysis. J. Bacteriol. *172*:3609-3619.

Ladapo, J. and W. B. Whitman (1990) Method for isolation of auxotrophs in the methanogenic archaebacteria: role of the acetyl-CoA pathway of autotrophic CO2 fixation in *Methanococcus maripaludis*. Proc. Natl. Acad. Sci. USA: *87*:5598-5602.

Xing, R., and W. B. Whitman (1991) Characterization of enzymes of the branched-chain amino acid biosynthetic pathway in *Methanococcus* spp. J. Bacteriol. *173*:2086-2092.

Xing, R., and W. B. Whitman (1992) Characterization of transaminases of *Methanococcus* spp. J. Bacteriol. *174*:541-548.

Yang, Y., J. Ladapo, and W. B. Whitman (1992) Pyruvate oxidation by the methanococci. Arch. Microbiol. *158*:271-275.

Yu, J. P., J. Ladapo, and W. B. Whitman (1994) Pathway of glycogen metabolism in *Methanococcus maripaludis*. J. Bacteriol. *176*:325-332.

Xing, R., and W. B. Whitman (1994) Purification and characterization of the oxygen-sensitive acetohydroxy acid synthase from the archaebacterium *Methanococcus aeolicus*. J. Bacteriol. *176*:1207-1213.

Tumbula, D. L., R. A. Makula, and W. B. Whitman (1994) Transformation of *Methano­coccus maripaludis* and identification of a *Pst*I-like restriction system. FEMS Microbiol. Lett. *121*:309-314.

Park, S. H., R. Xing, and W. B. Whitman. (1995) Nonenzymatic acetolactate oxidation to diacetyl by flavin, nicotinamide, and quinone coenzymes. Biochim. Biophys. Acta *1245*:366-370.

Gonzalez, J. M., W. B. Whitman, R. E. Hodson, and M. A. Moran (1996) Identifying numerically abundant culturable bacteria from complex communities: an example from a lignin enrichment culture. Appl. Environ. Microbiol. *62*:4433-4440.

Keswani, J., S. Orkland, U. Premachandran, L. Mandelco, M. J. Franklin, and W. B. Whitman (1996) Phylogeny and taxonomy of mesophilic *Methanococcus* spp. and comparison of rRNA, DNA hybridization, and phenotypic methods. Int. J. System. Bacteriol. *46*:727-735.

Bowen, T. L., W. C. Lin, and W. B. Whitman. (1996) Characterization of guanine and hypoxanthine phosphoribosyltransferases in *Methanococcus voltae*. J. Bacteriol. *178*:2521-2526.

Gonzalez, J. M., F. Mayer, M. A. Moran, R. E. Hodson, and W. B. Whitman (1997) *Microbulbifer hydrolyticus* gen. nov., sp. nov., and *Marinobacterium georgiense* gen. nov., sp. nov., two marine bacteria from a lignin-rich pulp mill waste enrichment community. Int. J. System. Bacteriol. *47*:369-376.

Bowen, T. L., J. Union, D. L. Tumbula, and W. B. Whitman (1997) Cloning and phylogenetic analysis of the genes encoding acetohydroxyacid synthase from the archaeon *Methanococcus aeolicus*. Gene. *188*:77-84.

Tumbula, D. L., T. L. Bowen, and W. B. Whitman (1997) Characterization of pURB500 from the archaeon *Methanococcus maripaludis* and construction of a shuttle vector. J. Bacteriol. *179*:2976-2986.

Gonzalez, J. M., F. Mayer, M. A. Moran, R. E. Hodson, and W. B. Whitman (1997) *Sagittula stellata* gen. nov., sp. nov., a lignin-transforming bacterium from a coastal environment. Int. J. System. Bacteriol. *47*:773-780.

Selkov, E., N. Maltsev, G. J. Olsen, R. Overbeek, C. R. Woese, and W. B. Whitman (1997) A reconstruction of the metabolism of *Methanococcus jannaschii* from sequence data. GENE COMBIO *197*:GC10-25.

Tumbula, D. L., Q. Teng, M. G. Bartlett, and W. B. Whitman (1997) Ribose biosynthesis and evidence for an alternative first step in the common aromatic amino acid pathway in *Methanococcus maripaludis*. J. Bacteriol. *179*:6010-6013.

Whitman, W. B., D. C. Coleman, and W. J. Wiebe (1998) Prokaryotes: the unseen majority. Proc. Natl. Acad. Sci. U.S.A. *94*:6578-6583.

Zellner, G., D. R. Boone, J. Keswani, W. B. Whitman, C. R. Woese, A. Hagelstein, B. J. Tindall, and E. Stackebrandt (1999) Reclassification of *Methanogenium tationis* and *Methanogenium liminatans* as *Methanofollis tationis* gen. nov., comb. nov. and *Methanofollis liminatans* comb. nov. and description of a new strain of *Methanofollis liminatans*. Int. J. System. Bacteriol. *49*:247-255.

Kim, W., and W.B. Whitman (1999) Isolation of acetate auxotrophs of the methane‑producing archaeon *Methanococcus maripaludis* by random insertional mutagenesis. Genetics *152*:1429‑1437.

Gardner, W.L., and W.B. Whitman (1999) Expression vectors for *Methancoccus* *maripaludis*: overexpression of acetohydroxyacid synthase and ßgalactosidase. Genetics *152*:1439‑1447.

Li, T., D.E. Graham, C. Stathopoulos, P.J. Haney, H. Kim, U. Vothknecht, M. Kitabatake, K. Hong, G. Eggertsson, A.W. Curnow, W. Lin, I. Celic, W. Whitman, and D. Soll (1999) Cysteinyl‑tRNA formation: the last puzzle of aminoacyl‑tRNA synthesis. FEBS Lett. 462:302‑306.

Keswani, J., and W.B. Whitman (2001) Relationships of 16S rRNA sequence similarity to DNA hybridization in prokaryotes. Int. J. Syst. Evol. Microbiol. 51:667‑678.

Rother, M., A. Resch, W.L. Gardner, W.B. Whitman, and A. Böck (2001) Heterologous expression of archaeal selenoprotein genes directed by the SECIS element located in the 3' non-translated region. Mol. Microbiol. 40: 900-908.

Kayar, S.R., A. Fahlman, W.C. Lin, and W.B. Whitman (2001) Increasing activity of H2-metabolizing microbes lowers decompression sickness risk in pigs during H2 dives. J. Appl. Physiol. 91: 2713-2719.

Stathopoulos, C., W. Kim, T. Li, I. Anderson, B. Deutsch, S. Palioura, W. Whitman, and D. Söll. 2001. Cysteinyl-tRNA synthetase is not essential for viability of the archaeon *Methanococcus maripaludis*. Proc. Natl. Acad. Sci. U.S.A. 98: 14292-14297.

Singleton, D.R., M.A. Furlong, S.L. Rathbun, and W.B. Whitman. (2001) Quantitative comparisons of 16S rRNA gene sequence libraries from environmental samples. Appl. Environ. Microbiol. 67: 4374-4376.

Furlong, M.A., D.R. Singleton, D.C. Coleman, and W.B. Whitman. (2002) Molecular and culture-based analyses of prokaryotic communities from an agricultural soil and the burrows and casts of the earthworm *Lumbricus rubellus*. Appl. Environ. Microbiol. 68: 1265-1279.

Yang, Y.L., J.N. Gluska, and W.B. Whitman (2002) Intracellular pyruvate flux in the methane-producing archaeon *Methanococcus maripaludis*. Arch. Microbiol. 178: 493-498.

Fahlman, A., W.C. Lin, W.B. Whitman, and S.R. Kayar (2002) Modulation of decompression sickness risk in pigs with caffeine during H2 biochemical decompression. J. Appl. Physiol. 93: 1583-1589.

Brigmon, R.L., M. Furlong, and W.B. Whitman (2003) Identification of *Thiothrix unzii* in two distinct ecosystems. Lett. Appl. Microbiol. 36: 88-91.

Hoover, R.B., E.V. Pikuta, A.K. Bej, D. Marsic, W.B. Whitman, J. Tang, and P. Krader (2003) *Spirochaeta americana* sp. nov., a new haloalkaliphilic, obligately anaerobic spirochete isolated from soda Mono Lake in California. Inter. J. Syst. Evol. Microbiol. 53: 815-821.

Pikuta, E.V., R.B. Hoover, A.K. Bej, D. Marsic, E.N. Detkova, W.B. Whitman, and P. Krader (2003) *Tindallia californiensis* sp. nov., a new anaerobic, haloalkaliphilic, spore-forming acetogen isolated from Mono Lake in California. Extremophiles 7: 327-334.

Singleton, D.R., M.A. Furlong, A.D. Peacock, D.C. White, D.C. Coleman, and W.B. Whitman (2003) *Solirubrobacter pauli* gen. nov., sp. nov., a mesophilic bacterium within the *Rubrobacteridae* related to common soil clones. Inter. J. Syst. Evol. Microbiol. 53: 485-490.

Lin, W.C., Y.L. Yang, and W.B. Whitman (2003) The anabolic pyruvate oxidoreductase from *Methanococcus maripaludis*. Arch. Microbiol. 179: 444-456.

Singleton, D.R., P.F. Hendrix, D.C. Coleman, and W.B. Whitman (2003) Identification of uncultured bacteria tightly associated with the intestine of the earthworm *Lumbricus rubellus* (Lumbricidae; Oligochaeta) Soil Biol. Biochem. 35: 1547-1555.

González, J.M.., J.S. Covert, W.B. Whitman, J.R. Henriksen, F. Mayer, B. Scharf, R. Schmitt, A. Buchan, J.A. Fuhrman, R.P. Kiene, and M.A. Moran (2003) *Silicibacter pomeroyi* sp. nov. and *Roseovarius nubinhibens* sp. nov., DMSP demethylating bacteria from marine environments. Inter. J. Syst. Evol. Microbiol. 53: 1261-1269.

Pikuta, E.V., R.B. Hoover, A.K. Bej, D. Marsic, W.B. Whitman, D. Cleland, and P. Krader (2003) *Desulfonatronum thiodismutans* sp. nov., a novel alkaliphilic, sulfate-reducing bacterium capable of lithoautotrophic growth. Inter. J. Syst. Evol. Microbiol. 53: 1327-1332.

Farahi, K., W.B. Whitman, and E.T. Kraemer (2003) RED-T: utilizing the Ratios of Evolutionary Distances for determining alternative phylogenetic events. Bioinformatics 19: 2152-2154.

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Whitman, W.B., W. Lin, W. Kim, Y.L. Yang, T. Major, I. Porat, B.A. Parks, S.A. Boltz, and J. Amster (2003) Why methanococci dont grow on glucose. Gordon Research Conference on Archaea, Proctor Academy.

Moran, M.A., W.B. Whitman, W. Ye, W.M. Sheldon, G. Dyszynski, X. Mou, J.R. Henriksen, R. Poretsky, R. Upchurch, R.E. Hodson, and F. Chen (2003) Prokaryotic diversity of a salt marsh/estuarine complex at the University of Georgia Marine Institute, Sapelo Island. NSF Microbial Observatories Principal Investigators Workshop. Arlington, VA.

Porat, I., B.W. Waters, Q. Teng and W.B. Whitman (2003) Biosynthesis of aromatic amino acids in the archaeaon *Methanococcus maripaludis*. Southeastern branch of the American Society for Microbiology, Athens, GA.

Major, T.A., and W.B. Whitman (2003) Abundance of 4Fe-4S motifs in prokaryotic genomes. Southeastern branch of the American Society for Microbiology, Athens, GA.

Haydock, A., I. Porat, W. Whitman, and J. Leigh (2004) Growth of Methanococcus maripaludis in continuous culture under defined nutrient-limiting conditions. National Meeting of the American Society for Microbiology, New Orleans.

Major, T.A., and W.B. Whitman (2004) The iron sulfur motif CX2CX2CX3C is abundant in methanogens. National Meeting of the American Society for Microbiology, New Orleans.

Porat, I., B.W. Waters, Q. Teng and W.B. Whitman (2004) The *de novo* pathway of aromatic amino acid biosynthesis is regulated by phenylacetate and p-hydroxyphenylacetate in the archaeaon *Methanococcus maripaludis*. National Meeting of the American Society for Microbiology, New Orleans, and Southeastern branch of the American Society for Microbiology, Jacksonville, AL.

Porat, I., W. Kim, Q. Xia, E.L. Hendrickson, Y. Zhang, T. Wang, F. Taub, B.C. Moore, I.J. Anderson, M. Hackett, J.A. Leigh, and W.B. Whitman (2005) Differential display proteomics and transcriptome analyses of a hydrogen metabolism mutant of the archaeon *Methanococcus maripaludis*. National Meeting of the American Society for Microbiology, Atlanta.

Hendrickson, E.L., A.K. Haydock, I. Porat, W.B. Whitman, J.A. Leigh (2005) Transcriptional regulation in *Methanococcus maripaludis* under hydrogen-limited growth. National Meeting of the American Society for Microbiology, Atlanta.

Porat, I., M. Sieprawska-Lupa, Q. Teng, R.H. White, and W.B. Whitman .2006. Phosphate: L-aspartate semialdehyde transaldolase catalyzes an early step in the biosynthesis of aromatic amino acids and p-aminobenzoic acid in the archaeon *Methanococcus maripaludis*. National Meeting of the American Society for Microbiology, Orlando.

Major, T.A., and W.B. Whitman. 2006. Deletion of Ehb hydrogenase genes affects anabolism in *Methanococcus maripaludis*. National Meeting of the American Society for Microbiology, Orlando.

Talera, S., M.A. Williams, A. Ivester, and W.B. Whitman. 2006. Molecular analysis of the bacterial community diversity during 90,000 years of habitat development in soil chronosequences. National Meeting of the American Society for Microbiology, Orlando.

Jangid, K., M.A. Williams, A. Franzluebbers, M. Jenkins, D. Endale, D.C. Coleman, and W.B. Whitman. 2006. Soil bacterial community composition and diversity as affected by animal manure application in pasture and cropping systems of the southern piedmont, USA. Soil Sci. Soc Am., Indianopolis.

Henriksen, J.R., M.A. Moran, and W.B. Whitman (2007) Dimethylsulfoniopropionate (DMSP) metabolism in *Silicibacter pomeroyi*. Symposium on Incredible Anaerobes: from physiology to genomics to fuels. Univ. of Georgia, Athens.

Henriksen, J.R., M.A. Moran, and W.B. Whitman (2007) Dimethylsulfoniopropionate (DMSP) metabolism in *Silicibacter pomeroyi.* National Meeting of the American Society for Microbiology, Toronto.

Reisch, C.R., M.A. Moran, and W.B. Whitman (2008) Purification and kinetic characterization of DMSP dependent demethylase (DmdA) from marine bacteria*.* National Meeting of the American Society for Microbiology, Boston.

Jangid, K., M.A. Williams, A.J. Franzluebbers, J.S. Sanderlin, J.H. Reeves, M.B. Jenkins, D. Endale, D.C. Coleman, and W.B. Whitman (2008) Inorganic fertilizer and poultry-litter manure amendments alter the soil microbial communities in agricultural systems*.* National Meeting of the American Society for Microbiology, Boston.

Sieprawska-Lupa, M., B. Lupa, K. Suresh, and W.B. Whitman (2009) A novel obligately anaerobic, coccoid spirochete isolated from river sediments. National Meeting of the American Society for Microbiology, Philadelphia

Liu, Y., R.H. White, and W.B. Whitman (2009) Methanococci use diaminopimelate aminotransferase (DapL) for lysine biosynthesis. Gordon Research Conference on Archaea, Waterville Valley

Liu, Y., L. Guo, R. Guo, R.L. Wong, H. Hernandez, J. Hu, Y. Chu, I.J. Amster, L. Huang, and W.B. Whitman (2009) The Sac10b homolog in *Methanococcus maripaludis* binds DNA at specific sites. Thermophiles, August 16-21, Beijing.

Liu, Y., and W.B. Whitman (2010) Sulfur source for cysteine biosynthesis in *Methanococcus maripaludis*. National Meeting of the American Society for Microbiology, May 23-27. San Diego, CA.

Reisch, C.R., Q. Teng, M.A. Moran, and W.B. Whitman (2010) Assimilation of DMSP by *Silicibacter pomeroyi* DSS-3. National Meeting of the American Society for Microbiology, May 23-27. San Diego, CA.

Sarmiento, F., J. Mrazek, and W.B. Whitman (2012) High through put mapping of transposon insertions for the identification of essential genes of the methanogenic archaeon *Methanococcus maripaludis*. Extremophiles, Spain

Sarmiento, F., J. Mrazek, and W.B. Whitman (2013) Genome scale analysis of gene function in the hydrogenotrophic archaeon *Methanococcus maripaludis*. Gordon Research Conference on Archaea, Lucca, Italy

Bullock, H.A., A.S. Burns, M.A. Moran, and W.B. Whitman (2014) The role of tetrahydrofolate in the regulation of dimethylsulfoniopropionate metabolism in *Ruegeria pomeroyi* DSS-3. International Union of Microbiological Societies. Montreal, Canada. July 27-Aug. 1.

Bullock, H.A., A.S. Burns, M.A. Moran, and W.B. Whitman (2015) The regulation of dimethylsulfoniopropionate metabolism in *Ruegeria pomeroyi* DSS-3. FEMS Congress. Maastricht, The Netherlands. June 7-11.

Lyu, Z., R. Jain, P. Smith, T. Fetchko, Y. Yan, and W.B. Whitman (2015) Engineering the autotrophic *Methanococcus maripaludis* for geraniol production. Gordon Research Conference on Archaea, Newry, ME

Jangid, K., M-H Kao, A. Lahamge, M.A. Williams, S.L. Rathbun, and W.B. Whitman (2017) *K*-shuff: A novel algorithm for characterizing structural and compositional diversity in gene libraries. JGI Investigators Workshop, March 20-21. Walnut Creek, CA.

Whitman, W.B., T. Woyke, Y.-G. Zhou, H.-P. Klenk, N. Shapiro and N.C. Kyrpides (2017) Genomic encyclopedia of bacterial and archaeal type strains, phases III and IV: the genomes and pangenomes of soil and plant-associated prokaryotes. JGI Investigators Workshop, March 20-21. Walnut Creek, CA.

Bullock, H.A.,Y. Zhu, C.R. Reisch and W.B. Whitman (2017) AcuH from *Ruegeria lacuscaerulensis* is a crotonase superfamily enzyme with activity towards methyl thioacryloyl-CoA and acryloyl-CoA. (2017) FEMS, July 9-17, Valencia
Spain.

**Invited Research Talks and Symposia:**

Whitman, W. B. and W. L. Ellefson (1981) Nickel and methanogenesis. Genetic Engineering of Microorganisms for Chemicals at University of Illinois at Champaign-Urbana.

Whitman, W. B. (1982) Physiology of *Methanococcus voltae*. Anaerobic Genetics Meeting at Branbury Center, Cold Spring Harbor, N.Y.

Whitman, W. B. (1985) Isolation and characterization of 22 mesophilic methanococci. International Workshop on Biology and Biochemistry of Archaebacteria, Munich, June, 1985.

Whitman, W. B. (1987) Systematics of *Methanococcus*, a methane-producing archaebacterium. Symposium lecture at the Combined Regional Microbiology Meetings, Am. Soc. Microbiol., Orlando, Florida.

Whitman, W. B. (1988) Mesophilic methanococci. Sixth International Congress of Culture Collections. Washington, D.C., November, 1988.

Whitman, W. B. and W. Wiebe (1990) Natural populations of methanogenic bacteria in Georgia salt marshes. National Meeting of the American Society for Microbiology, Anaheim, California.

Whitman, W. B. (1990) Pathway of autotrophic CO2 fixation in methane-producing archaebacteria. National Meeting of the American Society for Microbiology, Anaheim, California.

Whitman, W. B. (1990) Autotrophic CO2 assimilation in *Methanococcus maripaludis*. Gordon Conference on Molecular Aspects of Methanogenesis, New Hampshire.

Whitman, W. B. (1992) Carbon metabolism of *Methanococcus*. Ohio State University.

Whitman, W. B. (1993) Developments in the physiology and genetics of *Methanococcus*, a methanogenic archaebacterium. Gordon Conference on Applied and Environmental Microbiology.

Whitman, W. B. (1993) Comparative studies on the pathway of branched-chain amino acid biosynthesis in *Methanococcus*. Gordon Conference on Methanogenesis.

Whitman, W. B. (1993) Enzymes of branched-chain amino acid biosynthesis in *Methano­coccus*. International Workshop on Molecular Biology and Biotechnology of Extremophiles and Archaebacteria, Tokyo, Japan.

Whitman, W. B. (1994) Enzymes of branched-chain amino acid biosynthesis in the methanococci. Annual Meeting of the American Society for Microbiology, Las Vegas.

Whitman, W. B., and Y. L. Yang (1995) Autotrophic CO2 assimilation in methane-producing bacteria. Third International Conference on Carbon Dioxide Utilization, Norman, OK.

Whitman, W. B., and J. Keswani (1995) Correlations between DNA relatedness and 16S rRNA sequence similarity in eubacteria and archaebacteria. Japanese Culture Collection, RIKEN, Wako-shi and Occupational and Environmental Health University, Kitakyushu, Japan.

Whitman, W. B. (1995) Enzymes of branched-chain amino acid biosynthesis in the archaebacterium *Methanococcus*. Osaka City University and Occupational and Environmental Health University, Kitakyushu, Japan.

Tumbula, D. L., and W. B. Whitman (1996) A potential shuttle vector in *Methanococcus*. Gordon Conference on Archaea.

Whitman, W.B. (1997) Research seminar. University of Minnesota.

Whitman, W.B. (1998) Random mutagenesis of *Methanococcus maripaludis* by insertion libraries - isolation of mutants defective in CO2 assimilation. Gordon Research Conference on the Molecular Basis of Microbial One-carbon Metabolism. Henniker, N.H.

Whitman, W.B. (1998) Research seminar, Department of Microbiology, University of Tennessee, Knoxville.

Whitman, W.B. (1999) Examination of biosynthetic pathways predicted by genomic sequencing in methanococci. Keystone Symposium: Archaea: bridging the gap between bacteria and eukarya. Taos, N.M.

Whitman, W.B. (1999) Bacteria: the unseen majority. International Conference on The Ocean and its Environment, Tokyo, Japan.

Whitman, W.B. (1999) Research seminar, Department of Microbiology, University of Wisconsin, Madison.

Whitman, W.B. (1999) Bacteria: the unseen majority. Woods Hole Marine Sciences Laboratory, Summer Course on Microbial Diversity.

Whitman, W.B. (1999) Isolation of *Methanococcus maripaludis* auxotrophs by random and directed insertional mutagenesis. Gordon Research Conference on Archaea.

Whitman, W.B. (2000) Genetics of autotrophic growth of *Methanococcus maripaludis*. Gordon Research Conference on the Molecular Basis of Microbial One-carbon Metabolism. New London, CT.

Whitman, W.B. (2001) Opportunities for genetic engineering in the methane-producing archaea. NSF/CABBIO Workshop on Microbial Diversity, Biocomplexity, Buenos Aires.

Whitman, W.B. (2001) Examination of prokaryotic diversity in natural samples. Interfacing Microbiology and Biotechnology, University of Florida, Gainesville.

Gardner, W., M. Dsouza, B.W. Waters, W.B. Whitman, R. Overbeek, and R. Feldman (2002) Hot to cold methane: genomes of the mesophile *Methanococcus voltae* and the extreme thermophile *Methanothermococcus thermolithotrophicus*. Southeastern Branch Am. Soc. Microbiol., Gainesville, Fl.

Moran, M.A., A. Buchan, J. Henriksen, R. Kiene, N. Ward, J. Heidelberg, and W.B. Whitman (2002) Genome of the marine roseobacter *Silicibacter pomeroyi* DSS-3, a model organism for studying sulfur biotransformations. Southeastern Branch Am. Soc. Microbiol., Gainesville, Fl.

Whitman, W.B. (2002) Why methanogens dont grow on glucose. Savannah River Ecology Laboratory.

Whitman, W.B. (2002) Windows into the archaea: developing genetics in the methanococci. West Georgia College, Carrollton.

Whitman, W.B. (2003) Why methanogens don’t grow on glucose. Southern Yangtze University (Wuxi, P.R. China), Jiao Tong University (Shanghai), and Chinese Academy of Sciences (Beijing) and Hong Kong University of Science and Technology.

Whitman, W.B. (2003) Diversity of soil bacteria in agricultural soil. Southern Yangtze University, Jiao Tong University (Shanghai), and Chinese Academy of Sciences (Beijing).

Whitman, W.B. (2003) The silent majority, the number of prokaryotes on earth. Southern Yangtze University, Jiao Tong University (Shanghai), and Chinese Academy of Sciences (Beijing).

Whitman, W.B. (2003) Prokaryotes, the unseen majority. I. Roth lecture at the Southeastern branch of the American Society for Microbiology, Athens, GA.

Whitman, W.B., C.-Y. Chih, K. Everett, G. Dyszynski, R.A. Upchurch, and D.C. Coleman (2004) Bacterial diversity in agricultural and forest soils in the southeastern United States. International symposium on impacts of soil biodiversity on biogeochemical processes in ecosystems. Taipei, Taiwan.

Whitman, W.B. (2004) Prokaryotes, the silent majority. Symposium to honor David R. Boone, Oregon Graduate Institute, Beaverton, 2004.

Whitman, W.B., C.-Y. Chih, K. Everett, G. Dyszynski, R.A. Upchurch, and D.C. Coleman (2004) Bacterial diversity in agricultural and forest soils in the southeastern United States. International symposium on impacts of soil biodiversity on biogeochemical processes in ecosystems. Southeastern branch of the American Society for Microbiology, Jacksonville, AL.

Whitman, W.B. (2004) The natural history of *Methanococcus*: a methanogenic archaeon from salt marshes. Department of Microbiology, University of Illinois, Urbana.

Whitman, W.B. (2005) *Methanococcus* and other creatures of the salt marsh. Department of Marine Science, University of North Carolina, Chapel Hill.

Whitman, W.B., I. Porat, and R.H. White (2005) Initial steps in the pathway of aromatic amino acid biosynthesis in *Methanococcus*. Gordon Research Conference on Archaea.

Whitman, W.B., and M. Kendall (2005) Cuturomics- the discovery of life –omic. A lecture in honor of D.R. Boone. ASM National Meeting.

Whitman, W.B. (2005) *Methanococcus* and an archaeal paradigm for autotrophic CO2 fixation. Ohio State University.

Whitman, W.B. (2005) The number of prokaryotes on earth. Columbia University.

Whitman, W.B. (2006) Role of the *Methanococcus* energy-conserving hydrogenase in autotrophic CO2 assimilation. Microbial Energy Production. National Meeting of the American Society for Microbiology, Orlando.

Whitman, W.B. (2006) Role of the *Methanococcus* energy-conserving hydrogenase in autotrophic CO2 assimilation. Molecular Basis of Microbial One-Carbon Metabolism, Gordon Research Conference, Oxford UK.

Whitman, W.B. (2006) Role of the *Methanococcus* energy-conserving hydrogenase in autotrophic CO2 assimilation. International Workshop on Extremophiles, Beijing, China.

Whitman, W.B. (2006) The number of prokaryotes on earth (and why we care). Annual Meeting of the Southeastern Branch of the American Society for Microbiology, Kennesaw State University.

Whitman, W.B. (2007) The number of prokaryotes on earth (and why we care). Seminar at Virginia Bioinformatics Institute, Virginia Tech.

Whitman, W.B. (2007) New ways to make amino acids-lessons in prokaryotic diversity from the methanoarchaeon *Methanococcus*. Department of Biochemistry, University of Texas at Austin.

Whitman, W.B. (2007) What is a prokaryotic species? PEET VI. Univ. of Georgia, Athens.

Whitman, W.B., K. Jangid, M. Williams, S. Tarlera, and D.C. Coleman (2007) Bacterial diversity in agricultural and forest soils in the southeastern United States. International Symposium on Soil Biodiversity and Ecology. Taipei, Taiwan.

Whitman, W.B. (2007) Natural history of the methane-producing archaeon *Methanococcus*. Department of Biology, NCHU, Taichung, Taiwan

Whitman, W.B. (2007) Role of the *Methanococcus* hydrogenases in autotrophic CO2 fixation and H2 evolution. Department of Biology, NCHU, Taichung, Taiwan

Whitman, W.B. (2007) The natural history of Methanococcus: a methanogenic archaeon from salt marshes. Department of Microbiology, Cornell Univ.

Whitman, W.B. (2007) The number of prokaryotes on earth (and why we care). Symposium: Hidden before our eyes: a symposium to celebrate the 30th anniversary of the discovery of the Archaea at the University of Illinois. University of Illinois, Urbana.

Whitman, W.B. (2007) The number of prokaryotes on earth (and why we care). 3rd Annual Computational and Systems Biology Symposium, University of Georgia.

Whitman, W.B. (2008) The number of prokaryotes on earth (and why we care). Lyle E. Nelson Lecture, Department of Soil Science, Mississippi State Univ.

Whitman, W.B. (2008) The number of prokaryotes on earth (and why we care). 26th Semana Academica-Cientifica, Universidad Autónoma de Coahuila Escuela de Ciencias Biológicas, Torreon, Mexico

Whitman, W.B. (2009) David Bergey’s legacy in bacterial classification. National Meeting of the American Society for Microbiology, Philadelphia

Whitman, W.B. (2009) The number of prokaryotes on earth (and why we care). Halifax Univ., Nova Scota

Whitman, W.B. (2009) Hydrogenases of hydrogenotrophic methanogens. Thermophiles, August 16-21, Beijing.

Whitman, W.B. (2009) Bergeys taxonomic outline of the Actinobacteria. 15th International Symposium on the Biology of Actinomycetes, August 20-25, Shanghai.

 Whitman, W.B. (2010) Bergey’s manual during the development of prokaryotic systematics in the 20th century. XIII Meeting on Microbial Taxonomy, Phylogeny, and Diversity of the Spanish Society of Microbiology (SEM), May 13-14, Sevilla, Spain.

Whitman, W.B. (2010) My prokaryotes from the salt marshes of Georgia. Feb. 26. Department of Biology, Georgia State Univ., Atlanta, GA.

Whitman, W.B. (2010) USFCC/J. Roger Porter Award Lecture: My prokaryotes from the salt marshes of Georgia. National Meeting of the American Society for Microbiology. May 23-27. San Diego, CA.

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). May 28. Department of Microbiology, University of Washington, Seattle.

Whitman, W.B. (2010) Role of energy coupling hydrogenases in *Methanococcus.* First Archaea Workshop in Korea: Physiology, Molecular Biology and Applicaton, Oct. 27, Gyeongju, Korea

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). Oct. 29. Department of Bacteriology, Seoul National University, Seoul, Korea.

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). Nov. 1. Department of Science Education, Cheju National University, Jeju, Korea.

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). Nov. 8, Institute of Marine and Environmental Technology, Baltimore, MD

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). Nov. 24, Institut Teknologi Bandung, Bandung, Indonesia

Whitman, W.B. (2010) The number of prokaryotes on earth (and why we care). Nov. 27, Udayana University, Bali, Indonesia

Whitman, W.B. (2011) Bergey’s Manual Trust in the development of prokaryotic systematics. Inaugural Meeting of Bergey’s International Society for Microbial Systematics, May 19-23, Beijing, China.

Whitman, W.B. (2011) The long view on prokaryotic diversity. Genomics Driven Modelling of Microbes and Communities, Institute of Computing in Science Summer Program, Park City, Utah, July 23-30.

Liu, Y., and W.B. Whitman (2011) Unusual sulfur metabolism in *Methanococcus maripaludis*. Gordon Research Conference on Archaea, Waterville Valley Resort, July 31-August 5.

Whitman, W.B. (2011) Hydrogen metabolism in the methane-producing archaeon *Methanococcus maripaludis*. New Zealand Microbiological Society Conference, Palmerston North, November 23-25.

Whitman, W.B. (2012) Identification of essential genes of the methane-producing archaeon *Methanococcus maripaludis*. Department of Microbiology seminar, University of Oklahoma, April 6, 2012.

Whitman, W.B. (2012) Dimethylsulfoniopropionate metabolism by marine bacteria: what happens when microbial physiologists and ecologists talk. Woods Hole MBL Microbial Diversity Course, July 14.

Whitman, W.B. (2012) Pathway of methanethiol formation from dimethylsulfoniopropionate. Gordon Research Conference on One-Carbon Metabolism, Bates College, August 5-10.

Whitman, W.B. (2012) High through put mapping of transposon insertions for identification of essential genes of the methane-producing archaeon *Methanococcus maripaludis*. 15th International Biotechnology Symposium and Exhibition, Daegu, Republic of Korea, September 16-21.

Whitman, W.B. (2012) Dimethylsulfoniopropionate metabolism by marine bacteria: what happens when microbial physiologists and ecologists talk. University of Nebraska Biotechnology/Life Sciences Series, November 14.

Whitman, W.B. (2013) Bergey’s taxonomic outline of the Actinobacteria. Society for Applied Microbiology Summer Conference. Cardiff, UK.

Whitman, W.B. (2013) Genome scale analysis of gene function in the hydrogenotrophic archaeon *Methanococcus maripaludis*. Jiao Tong University (Shanghai)

Whitman, W.B. (2013) Hydrogen metabolism in the methane-producing archaeon *Methanococcus maripaludis*. Nanjing Forestry University and Chinese Academy of Sciences (Beijing).

Whitman, W.B. (2013) A natural history of *Methanococcus*: a methanogenic archaeon from salt marshes. Chinese Academy of Sciences (Beijing).

Whitman, W.B. (2013) *Methanococcus*: a model system for hydrogenotrophic methanogens. International Conference on Biomass Energy and Chemicals, Nanjing

Whitman, W.B. (2013) A natural history of *Methanococcus*: a methanogenic archaeon from salt marshes. Guangxi University for Nationalities, Nanning.

Whitman, W.B. (2014) The state of microbial taxonomy today (Keynote). Bergeys International Society for Microbial Systematics. Edinburgh, UK. April 7-10.

Whitman, W.B. (2014) Impact of genomics on systematics. International Society of Microbial Ecology 15, Seoul, Korean. August 24-29.

Whitman, W.B. (2014) Bergey’s Manual in the development of prokaryotic systematics. Symposium on Frontier of Microbial Ecology. Taipei, Taiwan. September 4-5.

Whitman, W.B. (2014) High through put mapping of transposon insertions for identification of essential genes of the methane-producing archaeon *Methanococcus maripaludis*. Symposium on Frontier of Microbial Ecology. Taipei, Taiwan. September 4-5.

Whitman, W.B. (2014) *Methanococcus maripaludis*, a model system for synthetic biology in a hydrogenotrophic methanogen. Departmental seminar, Beijing Institute of Chemical Technology, Beijing, China. September 9.

Whitman, W.B. (2015) Bacterial transformations of dimethylsulfoniopropionate (DMSP), a major source of marine sulfur emissions to the atmosphere. International Symposium on Biodiversity, Academia Sinica, May 8-9.

Whitman, W.B. (2015) Genome sequences as nomenclatural type material for novel taxa. FEMS Congress. Maastricht, The Netherlands. June 7-11.

Whitman, W.B. (2015) Genome scale analysis of gene function in the hydrogenotrophic methanogenic archaeon *Methanococcus maripaludis*. Biochemistry group, Department of Chemistry, Auburn University. September 18.

Whitman, W.B. (2016) The soil microbiome. Translational Plant Sciences Minisymposium. Virginia Tech. Blacksburg. February 5.

Whitman, W.B. (2016) Developments in microbial taxonomy and systematics. Departmental seminar, BIMOA, Sichuan, China. August 12.

Whitman, W.B. (2016) *Methanococcus maripaludis*, a model system for synthetic biology in a hydrogenotrophic methanogen. Departmental seminar, Biogas Institute Ministry of Agriculture [BIMOA], Chengdu, Sichuan, China. August 13.

Whitman, W.B. (2016) The soil microbiome. Departmental seminar, Tarim University, Aska, China. August 14.

Whitman, W.B. (2016) Genome sequences as nomenclatural type material for novel taxa. 8th National Conference of Microbial Resources, Hothot, China. August 18.

Whitman, W.B. (2016) The immense soil microbiome. Agriculture and environment seminar series. Virginia Tech. Blacksburg. November 15.

Whitman, W.B. (2017) Evolution of the bacterial metabolism of dimethylsulfoniopropionate (DMSP), a major source of marine sulfur emissions to the atmosphere. Georgia Tech. Mar. 2.