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Professional Preparation

University of Puerto Rico, Humacao B.S. – 1990

Michigan State University, Microbial Ecology Ph.D. – 1994

Selected Publications

Díaz, E., D. Pérez, J. Delgado, and A. Massol-Deyá. 2018. Longitudinal survey of lead, cadmium, and copper in seagrass *Syringodium filiforme* from a former bombing range (Vieques, Puerto Rico) Toxicol Rep 5:6-11.

R. A. Sanford, D. Wagner, Q. Wu, J. C. Chee-Sanford, S. H. Thomas, C. Cruz-García, G. Rodríguez, A. Massol-Deyá, K. K. Krishnani, K. M. Ritalahti, S. Nissen, K. T. Konstantinidis and F. E. Löffler. 2012. Unexpected nondenitrifier nitrous oxide reductase gene diversity and abundance in soils. Proc Natl Acad Sci USA. 109(48): 19709–19714.

Valentín-Vargas, A., G. Toro-Labrador, and A. A. Massol-Deyá. 2012. Bacterial Community Dynamics in Full-Scale Activated Sludge Bioreactors: Operational and Ecological Factors Driving Community Assembly and Performance. Plos One 7(8):e42524.

Ara-Rojas, S. and A. Massol-Deyá. 2007. Bacterial diversity in a fluidized bed bioreactor (FBR) treating gasoline-contaminated groundwater. Revista Argentina de Microbiología. 39(4):243-51.

Massol-González, A., A. Andromache-Johnnidis, A. Massol-Deyá. 2008. The Evolution of Casa Pueblo, Puerto Rico: From Mining Opposition to Community Revolution. Gatekeeper, 137b:1- 20.

Rodríguez-Martínez, E., E.X. Pérez, C.W. Schadt, J. Zhou, and A. Massol-Deyá. 2006. Microbial Diversity and Bioremediation of a Hydrocarbon-Contaminated Aquifer in Vega Baja, Puerto Rico. International Journal of Environmental Health. 3(3):292-300.

Massol-González, A., E. González, A. Massol-Deyá, T. Deyá Díaz, and T. Geoghegan. 2006. Bosque del Pueblo, Puerto Rico: How a fight to stop a mine ended up changing forest policy from the bottom up. Policy that works for forests and people no. 12. International Institute for Environment and Development, London. 130pp.

Massol, A., D. Pérez, E. Pérez, M. Berrios, and E. Díaz. 2005. Trace elements analysis in forage samples from a US Navy bombing range (Vieques, Puerto Rico). Int. J. Environ. Res. Public Health. 2(2):263-266.

Massol-Deyá, A., R. Muñiz, M. Colón, J. Graulau, and N. S. Tang. 2005. Microbial Community Structure of Pentachlorophenol Contaminated Soils as Determined by Carbon Utilization Patterns. Caribbean Journal of Science 41:138-146.

Massol-Deya, A. y E. Diaz. 2003. Trace elements composition in forage samples from various anthropogenically impacted areas in Puerto Rico. *Carib. J. Sci.* 39:215–220.

Massol-Deya, A., R. Weller, L. Rios-Hernandez, R. F. Hickey, and J. M. Tiedje. 1997. Succession and convergence of biofilm communities in fixed-film reactors treating benzene, toluene, and p-xylene contaminated groundwater. *Applied and Environmental Microbiology*. 63:270-276.

Massol-Deya, A., J. Whallon, R. F. Hickey, and J. M. Tiedje. 1995. Channel structures in aerobic biofilms of fixed-film reactors treating contaminated groundwater. *Applied and Environmental Microbiology*. 61:769-777.

Tiedje, J. M., R. A. Sanford, and A. Massol. 1995. Advantages and disadvantages of consortia in bioremediation. *In* *Bioremediation: the Tokyo '94 Workshop*. OECD, Paris pp 357-367. Tiedje, J. M., S. M. Thiem, A. Massol-Deya, J. O. Ka, and M. R. Fries. 1995. Tracking Microbial

Populations Effective in Reducing Exposure. *Environmental Health Perspectives*. 103:117-120. Massol-Deya, A., J. Whallon, R. F. Hickey, and J. M. Tiedje. 1994. Biofilm architecture: a fortuitous engineering feature. *ASM News*. 60(8):467 and cover.

Synergistic Activities

President, Board of Directors, Casa Pueblo (2009-present)

Director, Environmental Educational Program “Instituto Comunitario de Biodiversidad y Cultura of Casa Pueblo” (2003-present)

PR Board of Higher Education (2003-2006)

Management Board, Bosque del Pueblo de Adjuntas

NSF Microbial Observatory Panel (2002)

Environmental Quality Board of PR (2001-2003)

Health Department of PR (2003-2005)

Committee for Bosque Modelo of Puerto Rico, President (2013-2014)

Columnist for *El Nuevo Día*, *Claridad* and *La Perla del Sur*

Collaborators and Other Affiliations

(i) Collaborators and co-editors

T. Hazen (LBNL), C. Criddle (Stanford), J. Whallon (MSU), F. Loeffler (GTech), Elba Diaz (UPR), James Tiedje (MSU), Robert Hickey (MSU), J. Zhou (DOE), Allan Devol (UWash), Larry Forney and Eva Top (UIdaho), Kostas Konstantinidis (GIT).

(ii) Thesis Advisor and Postgraduate-Scholar Sponsor

Graduate students advised: Rhynna Soto (1997), Carlos Rodriguez (1998), Patricia Orfila (1997), Leticia Torres (2000), Ricardo Rossy (2001), Rubin Muniz (2002), César Cordero (2003), Silvia Ara Rojas (2004), Rogelinda Barraza (2005), Enid Rodríguez (2006), Sonia Bailon (2006), Gina Rodríguez (2008), Alejandro Caro (2009), Gloried Toledo (2010), Alexis Valentín (2010), Katherine Carrero (2011), Lorreine Rodríguez (2014), Lizbeth Dávila (2017). Postdocs advised: Dr. Ricardo Maggi.