

Dalizza Colón, Research Chemist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: My current research aims to improve the understanding of biological transformations of organic pollutants in aquatic and terrestrial systems to ultimately develop quantitative structure activity relationships (QSARs), which can be used to predict the biotic rates of reaction of environmentally relevant organic chemicals in natural aerobic environments. In particular, this work focuses on the fate of pollutants used in agricultural activities, consumed by humans, and/or that are classified as high production volume chemicals in natural systems. These QSARs are useful in the (i) prediction of environmental concentrations of organic chemicals and their transformation products in the natural environment, (ii) evaluation of spatially-explicit chemical exposures to protect the human health and the environment, and (iii) assessment of ecological and management of chemical risks.

Select Publications:

COLON, D., J. L. Anderson, AND J. Quinones-Gonzalez. Fate of Sulfonylurea-bearing Pharmaceuticals in Sediment and Soil Systems. Presented at Reaction Mechanisms in Environmental Organic Chemistry Symposium of the 242nd ACS National Meeting, ENVR 405, Denver, CO, August 28 - September 01, 2011.

COLON, D., J. L. Anderson, AND J. A. Quinones-Gonzalez. Fate of Sulfonylurea-bearing Pharmaceuticals in Sediment and Soil Systems. Presented at Sci-Mix Section of the 242nd ACS National Meeting, Denver, CO, August 28-September 1, 2011, ENVR 405, Denver, CO, August 28 - September 01, 2011.

Zhang, H., D. COLON, J. F. KENNEKE, AND E. J. WEBER. The Use of Chemical Probes for the Characterization of the Predominant Abiotic Reductants in Anaerobic Sediments. Chapter 24, Paul G. Tratnyek, Timothy J. Grundl, Stefan B. Haderlein (ed.), Aquatic Redox Chemistry. American Chemical Society, Washington, DC, 1071:539-557, (2011).

View more research publications by [Dalizza Colón](#).

Education:

- Ph.D. Chemistry, University of Georgia, 2004
- M.S. Chemistry, University of Puerto Rico, 1993
- B.S. Chemistry, University of Puerto Rico, 1986

Professional Experience:

- Research Chemist, USEPA, ORD, NERL-ERD, Athens, GA 2004-present
- Chemist, USEPA, ORD, NERL-ERD, Athens, GA 1992-2004