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Engineering & Scientific Consulting

Veronica Montesano

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Professional Profile

Ms. Montesano uses standards (including FOCUS groundwater and surface water scenario modelling, PEARL, PELMO and SWASH) and higher tier exposure models (SWAN and GeoPEARL) to provide exposure assessments as part of the regulatory requirements for environmental risk assessment of pesticides, biocides, and other chemicals. As a research chemist, her interests lie in the field of organic synthesis.

Ms. Montesano has experience developing different synthesis paths to obtain isoxazolines and isoxazoles through 1,3-dipolar cycloadditions, using protected carbohydrates to increase the versatility of the final compounds depending on their biological activity. She previously worked with a Cuban research group to obtained acridones derivatives, work that led to a bilateral patent (Cuba- Argentina). In addition to experience as a research chemist, Ms. Montesano has worked as a laboratory manager in a quality control laboratory, developing and validating analytical techniques to obtain the ISO/IEC certification.

Ms. Montesano obtained two fellowships to develop her career as a researcher, one funded by UBA (University of Buenos Aires) and the second one by FOMEC (Fund for the Improving of the University Excellence). She has been honored with the Initiation to Scientific Research Award for her research in cycloadditions by the Faculty of Pharmacy and Biochemistry – University of Buenos Aires as a young scientific investigator.

Academic Credentials & Professional Honors

Professional Degree, Chemistry Science, Universidad de Buenos Aires, 1997

Academic Appointments

Laboratory Teacher, Department of Organic Chemistry, Faculty of Exact and Natural Science, University of Buenos Aires, Argentina, 1997–2001

Laboratory Teacher Assistant, Department of Organic Chemistry, Faculty of Exact and Natural Science, University of Buenos Aires, Argentina, 1993–1997

Prior Experience

Laboratory Manager, Trafoconsult SRL, Buenos Aires, Argentina, 2001-2003

Senior Researcher, Department of Organic Chemistry, Faculty of Exact and Natural Science, University of Buenos Aires, Argentina, 1997-2001

Junior Researcher, Department of Organic Chemistry, Faculty of Exact and Natural Science, University of Buenos Aires, Argentina, 1993-1997

Languages

Spanish

Patents

Patent C07D 219/04, 22858: Procedimiento para la obtención de acridonas sustituidas, August 1998 (Xuarez Marill Lisbet, Pellón Comdóm Rolando F., D' Accorso Haick Norma Beatriz, Oriani Montesano Verónica Julieta, Fascio Silva Mirta L).

Publications

Fascio ML, Montesano VJ, D'Accorso NB. 1,3-Dipolar cycloaddition of 1,2-O-isopropylidene-α-D-xylopentadialdo-1,4-furanosenitrile oxide to some alkenes. Journal of Heterocyclic Chemistry 1998; 35:103–107.

Fascio ML, Montesano VJ, D'Accorso NB. Synthesis and characterization of some 3-glycosyl-5-substituted isoxazoles with potential biological activities. Journal of Carbohydrate Chemistry 2000; 19:393–398.

Xuarez L, Pellon RF, Montesano V, D'Accorso N. Synthesis of N- allyl and N-propadienylacridones using phase-transfer catalysis. Heterocycles 2004; 63:23–28.

Project Experience

Undertakes standard and higher tier exposure modelling to provide exposure assessments as part of the regulatory requirements for environmental risk assessment of pesticides, biocides, and other chemicals.

Managed a Quality Control Laboratory for oil and silicones used in electrical transformers.

Developed and implemented the techniques and analytical methods involved in the analyses of oils and silicones used in electrical transformers.

Wrote the Quality Laboratory Manual to be an accredited ISO/IEC 17025 lab.

Designed and performed the synthetic pathways to obtain new products with potential biological activity, especially heterocyclic compounds (isoxazoles and isoxazolines) linked to protected carbohydrates. The results of these investigations were communicated in scientific publications and international congresses presentations.

Designed and performed the synthetic route to obtain acridones derivatives with potential antitumoral activity as part of the CYTED Programme. The results were patented, published, and presented in different congresses.