

Exponent®
Engineering & Scientific Consulting

Soumita Mukherjee, Ph.D.

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Professional Profile

Dr. Mukherjee specializes in crop protection chemicals, where she provides technical and regulatory advice to clients in the areas of residues, metabolism and dietary risk assessment. She has a wide range of technical knowledge on the EU regulatory systems for pesticides.

Dr. Mukherjee prepares dossiers for EU submissions for active substance and product approval/renewal. She is also has been involved in the preparation of submissions to the Joint Meeting on Pesticide Residues (JMPR) in support of Codex maximum residue Limits (MRLs).

Dr. Mukherjee has experience evaluating chemistry and methods data for inclusion in EU and global (JMPR) submissions. Prior to joining Exponent, she worked as a Regulatory Chemist in the area of plant protection products and biocides at another consultancy.

During her postdoctoral research, she has worked on the development of synthetic pathways and designing of small molecule libraries of compounds targeting phosohoinositide-3-kinase (PI3K) and mammalian target of rapamycin (mTOR) and also anti-inflammatory agents targeting phosphodiesterase 4 (PDE4).

Academic Credentials & Professional Honors

Ph.D., Organic Chemistry, Indian Institute of Engineering Sci and Tech, 2011

M.Sc., Chemistry, Indian Institute of Engineering Sci and Tech, 2006

Prior Experience

Regulatory Chemist, LKC Switzerland Ltd, 2017-2020

Postdoctoral Fellow, University of Basel, Switzerland, 2015-2016

Postdoctoral Fellow, Dr Reddy's Institute of Life Sciences, India, 2011-2013

Languages

German

Bengali

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Publications

S. Mukherjee and M. Pal. Quinolines: A new hope against inflammation. Drug Discovery Today, 2013, 18: 389-398.

D.R. Gorja, S. Mukherjee, et al. Novel N-indole substituted olanzapine derivatives: Design, synthesis and evaluation as PDE4B inhibitors. Organic Biomolecular Chemistry, 2013, 11: 2075-2079.

S. Mukherjee and M. Pal, Medicinal chemistry of quinolines as emerging anti-inflammatory agents: An overview. Current Medicinal Chemistry, 2013, 20: 4386-4410.

P.V. Babu, S. Mukherjee et al. Ligand/ PTC-free intramolecular Heck reaction: Synthesis of pyrroloquinoxalines and their evaluation against PDE4/ luciferase/ oral cancer cell growth in vitro and zebrafish in vivo. Organic Biomolecular Chemistry, 2013,11: 6680-6685.

S. Mukherjee, P. Roy and B.K. Ghorai, “One-Pot Three-Component Synthesis of Quinoxaline, Quinazoline and Phenazine Ring Systems Using Fischer Carbene Complexes. Synthesis, 2011, 1419-1426.

G.P. Jana, S. Mukherjee and B.K. Ghorai, “Multicomponent approach for the synthesis of the phenanthridine and acridine ring systems via the coupling of Fischer carbene complexes with heteroaromatic o-alkynyl carbonyl derivatives,” Synthesis, 2010, 3179-3187.

S. Mukherjee and B.K. Ghorai, “Metallation of 2,4-dialkoxy-5-bromopyrimidine and formylation with dimethylformamide: Isolation of 2,6-dialkoxy-5-dimethylaminopyrimidine-4-carboxaldehyde. Synthetic Communications, 2010, 40: 1939-1943.

S. Mukherjee, G.P. Jana and B.K. Ghorai, “Synthesis of isoquinolines through the coupling of Fischer carbene complexes with o-alkynylpyridine carbonyl derivatives,” Journal of Organometallic Chemistry, 2009, 694: 4100-4106.