

## Michael Routledge

University of Leeds, U.K.



As Associate Professor of Environmental Toxicology in the School of Medicine at Leeds, Michael Routledge is involved in teaching medical science to students in the first year of their medical degree and has a pastoral role for second year students. His research interests are in molecular epidemiology and environmental toxicology. Earlier in his career he focused on environmental carcinogenesis, particularly measuring DNA damage and mutation and using mutation spectra to understand mechanisms of mutagenesis. For the last decade, he has

been involved in studying toxicity of particulate matter, including the genotoxicity of both diesel particles and engineered nanoparticles. Recently, this has involved studying the potential for diesel particles to alter blood clot structure and function as a mechanism for cardiovascular effects of traffic fumes. Since 2012, he has been studying the health impact of mycotoxins, especially on child health in sub-Saharan Africa. This involves measuring biomarkers of mycotoxin exposure and using epidemiological methods to assess impact of the mycotoxins on child growth and immune function.