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Dr. Irina Guschina is recognised internationally for research into the role of lipids in living systems. Unified by detailed insights into lipid structure, functions and metabolism in different contexts, her work encompasses: i) the importance of lipids in health and disease; ii) the influence of lipids on ecosystem function; and iii) their role in trophic interactions in response to global change.

Her interests also extend to strategic applications such as the significance of lipids and fatty acid characteristics in the synthesis of sustainable biofuels, for example from algae.

Dr Guschina has over 100 scientific publications in international journals and books and is widely cited (H = 38: almost 5,180 citations) and has been in receipt of Royal Society and Royal Society/NATO Fellowships, German Academic Exchange Service Grant, National Research Foundation Grant (Natal University, South Africa) and Austrian Science Fund, FWF. She is a referee to the following scientific journals: Journal of Applied Phycology (Editorial Board), European Journal of Phycology, Lipids in Health and Disease, Naturwissenschaften, Marine Chemistry, Fuel.