

Dagmar STENGEL



**Senior Lecturer
Head of Botany and Plant Science
National University of Ireland Galway (NUI Galway)**

Dagmar Stengel is the current Head of Botany and Plant Science at the National University of Ireland Galway, where she leads a rapidly expanding multidisciplinary research team ('Algal BioSciences'). The focus of her current research activities builds upon a foundation of pure and applied research and spans the entire value chain of marine origin bio-based products. Her competences and extensive research interests in marine algae and marine biotechnology are reflecting her track record of securing national and international research funding in excess of €5 million including for multi-national projects, many academic outputs including scientific publications and multiple other professional contributions.

Research of specific relevance to BBI JU includes the sourcing, assessment and evaluation of algal biomass – the impacts of harvesting on wild stocks, and research that supports the development of food, food ingredients and other products, specifically those based on marine algae. This expertise is underpinned by her core discipline and international reputation as a phycologist specialising in natural seaweed populations and cultivated macro- and microalgae; and algal composition in relation harvesting, cultivation and anthropogenic and environmental impacts (e.g. global change) – knowledge that is essential when researching product and process applications.

Career background

Following her PhD in phycology at the Queens University of Belfast, she held post-doctoral research positions in Germany and Ireland before being appointed to the staff of Botany and Plant Science at NUI Galway. With over 25 year experience in algal research, she is now a Senior Lecturer and the Head of Discipline of Botany and Plant Science at NUI Galway.

As a Principal Investigator, Dagmar Stengel's research interests include the sustainable utilisation of natural seaweed resources and the optimised cultivation of macro- and microalgal biomass for the production of high-value compounds with applications in specific sectors including marine-derived foods/ingredients and cosmetics. Her extensive experience in the assessment of environmental impacts and stressors on algal biology, productivity and composition resulted in the publication of over 50 peer-reviewed articles, over 200 conference contributions and multiple invitations as keynote speaker at international conferences. Recently, she edited a book ('Natural Products from Marine Algae') published by Springer. She currently leads several nationally and European-funded projects on algae, ranging from seaweed resource assessment methodologies to novel extraction technologies for algal compounds with marine biotechnological applications.

SCIENTIFIC COMMITTEE



Current/past Chairs/Committees/Boards served on

- Secretary of the European Federation of Phycological Societies (FEPS)
- Member of the Organising Committee, International Association for Plant Biotechnology Congress (Dublin 2018)
- Reviewer for several international journals and co-editor in conference proceedings for applied phycological associations
- Contributions to the development of Ireland's marine research strategies, and national and institutional food research plans
- Expert Evaluator of research proposals nationally and internationally (e.g. Chile, France, Germany, Italy, Norway, Sweden, USA)

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