



**DR MARCELO G. RODRIGUES**

BSc, PhD, MRSB, MIMarEST

**Managing Scientist**

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Dr Marcelo Rodrigues, a dual-national Consultant Scientist, joined Brookes Bell in 2018 after obtaining his PhD in Biological Sciences in Spain and six years' post-doctoral experience between Austria and the United Kingdom, with internships in USA, France and Belgium. His areas of expertise lie in (1) the carriage of cargoes at sea encompassing loadport, voyage, discharge and quality disputes; as well as (2) hull fouling disputes.

As a cargo scientist, his main area of expertise lies in the field of bulk and packaged agricultural commodities (food, feed and fertilisers), advising shipowners, charterers, commodity traders, insurers and shipping lawyers. He advises on cargo properties and dangerous goods issues and has conducted survey investigations in many countries into incidences of cargo damage arising from pre-shipment and transportation, sampling and laboratory testing of such cargoes as well as contractual quality disputes.

As a bio-fouling scientist, he has been extensively involved with incidences of hull fouling to ship's hulls. He has extensive experience on the biology of major marine fouling organisms, which settle on ship's hull and other submerged man-made structures and has conducted investigations into the origins, causes and extent of hull-fouling organisms. He has presented at several international conferences on this subject, acts as referee for scientific journals and expert panels for the European Union, and has published 11 peer-reviewed articles in top scientific journals. He obtained EU funding and co-organised the Brookes Bell Biofouling Workshop in Liverpool in 2019.

Before joining Brookes Bell, he carried out academic research for ten years on multi-disciplinary marine science, molecular biology and bio-chemistry projects, and completed three research cruises on-board the oceanographic research vessels 'Sarmiento de Gamboa' and 'Hesperides'. His research focused on the formulation of new adhesives for underwater applications via the characterisation of adhesives encountered in nature (biofouling) and has used a wide range of molecular biology techniques.

In addition to English, Marcelo is fluent in the Portuguese and Spanish languages.

**Academic Qualifications**

PhD in Biological Sciences (University of Vigo, Vigo, Spain)

BSc in Biological Sciences (Santa Cecilia University, Brazil)

**Other Post-Graduate Education**

EMBL-EBI practical course. Proteomics Bioinformatics. Hinxton, UK (12/2016)

Hands-On Proteomics Workshop. Technische Universität Wien, Vienna, Austria (04/2016)

EMBO practical course on Targeted Proteomics: Experimental design and data analysis. Centre for genomic regulation, Barcelona, Spain (11/2015)

9th European Summer School on Advanced Proteomics. Brixen, Italy (08/2015)

EMBO practical course on The Characterization of Post-Translational Modifications. University of Southern Denmark, Odense, Denmark (05/2015)

Intellectual Property Rights Workshop for Marie Skłodowska-Curie Fellows. European Patent Office. Munich, Germany (11/2014)

An introductory course to RNA-seq. Centro de Biotecnologie Molecolari. Torino, Italy (03/2014)

EMBL-EBI practical course. Introduction to Next Generation Sequencing. Hinxton, UK (03/2014)

EMBO global exchange lecture course on Structural and Biophysical Methods for Biological Macromolecules in Solution. University of Sao Paulo, Sao Paulo, Brazil. (01/2014)

**Professional Associations**

Member of the Royal Society of Biology.

Member of the Institute of Marine Engineering, Science and Technology.

Management Committee for the UK (deputy) for the COST Action CA15216. European Network of Bioadhesion Expertise: Fundamental knowledge to inspire advanced bonding technologies (2016-2020).

Member of the COST Action TD0906. Biological Adhesives: From biology to biomimetics (2010-2014).

**Previous Employment History**

Newcastle University (UK) - Senior Research Associate, Leverhulme Trust

University of Innsbruck (Austria) - Postdoctoral Fellow, Intra-European Marie Curie Fellow.

University of Innsbruck (Austria) - Postdoctoral Associate, FWF project.

University of Vigo (Vigo, Spain) – PhD Candidate, with various governmental fellowships.

**Scientific and Consultancy Experience**

*Managing Scientist at Brookes Bell since May 2018*; survey and consultancy examples include, but not limited to:

- Hull fouling disputes worldwide.
- Damage to soya bean cargoes in China, Argentina, Spain.
- Water damage to cargoes of rice, maize, sorghum, and wheat in Vietnam, Cameroon, Mexico, Sudan, Egypt.
- Transshipment of wheat after vessel's engine failure in Spain.
- Self-heating of animal feed in the UK.
- Damage to fertilisers in Mozambique, Mexico, UK, Brazil, India, Kenya.
- Caking of alumina calcine in Italy.
- Investigation on the presence of pesticides in sunflower seeds in Romania.
- Insect infestation in wood pulp cargo in Italy.
- Fuel oil off-specifications in the UK.
- Transport of dangerous goods.
- Quality issues of zinc oxide imported into China.
- Coal self-heating and its explosion risk management in Indonesia.
- Investigation of marine fauna causing vessel casualty.