



Knowledge, skills and experience matrix of SAMS (UHI Partner) for IBioIC

Scottish Association For Marine Science (UHI Partner) www.sams.ac.uk (www.uhi.ac.uk)

SAMS has an international reputation in marine science with active research in microbial & molecular biology, ecology, biogeochemistry and physics. Research in the Department of Microbial and Molecular Biology focuses on bacteria, phytoplankton, protozoa and other eukaryotic protists using genomic, bioinformatic and chemoinformatic approaches to investigate the biology, ecology and biotechnology of microbes in coastal and ocean habitats. SAMS is also (i) a learned society; (ii) a National Capability delivery partner of the Natural Environment Research Council (NERC); and (iii) an academic partner delivering undergraduate and postgraduate education as a part of the University of the Highlands and Islands.

Algal Bioenergy and Biotechnology [Contact IBioIC for Contact Details]

Dr Michele Stanley has over 20 years research experience in the area of biochemistry and molecular biology. She has worked on applied phycology projects for more than 17 years. Over the last 7 years, she has initiated and led the development of research investigating marine biomass, both macro- and microalgal, as forms of biofuels at SAMS and is also developing other areas of applied research investigating the biotechnology application of algae.

Algal Biotechnology [Contact IBioIC for Contact Details]

Dr **John Day** is Head of the Culture Collection of Algae and Protozoa (CCAP) an internationally important Biological Resource Centre. He has >25 years research experience in algal conservation, cryobiology, biotechnology and applied algal research. He has previously developed an algal-based product from inception to market, including up-scaling from the lab to 50,000 bioreactors.

Molecular Microbiology [Contact IBioIC for Contact Details]

Dr David Green is a practicing microbiologist of over 20 years experience including public health microbiology, bacterial genetics and protein structure and function. Current research focuses on fundamental and applied aspects of the diversity, function and biogeochemistry of marine bacteria and their symbiotic association with microalgae. Applied research has focused on the commercial exploitation of bacterial biopolymers and development of bioethanol production from seaweed.