



**Dr Rachel Errington** received her Bachelor of Science in Biochemistry at the University of Wales College of Cardiff (1988); followed by a D.Phil from the University of Oxford (1993); studying cell movement during wound healing. Currently she is a Reader in BioMolecular Imaging at Cardiff University. She is also director of research at Biostatus Ltd, a UK biotechnology SME.

At Cardiff she leads a multi-disciplinary R&D programme focused on biophotonics and cancer systems biology. It embodies the design of cell-based assays to search for new therapeutic targets; and the parallel development of biophotonic technologies for linking multi-scalar cellular events. The objective is to interrogate tumour biology and drug pharmacodynamics using multi-dimensional imaging and computational biology approaches. Current funded projects focus on targeted nanoswitches enabling photonic control of molecular pathways; and nanotags for tracking cell cells quantitatively suitable for the mathematical modelling of patterns in tumour progression including the derivation of stem-cell lineages.