

Instructors

A. Multiscale Approaches

- [Mariya Ptashnyk](#) (Heriot-Watt University, United Kingdom)
Title: *Multiscale modelling and analysis of biological systems*
- [Chandrasekhar Venkataraman](#) (University of Sussex, United Kingdom)
Title: *Numerical methods for multiscale models arising in biology*

B. Cancer

- [Mark Chaplain](#) (University of St Andrews, United Kingdom) &
- [Nikolaos Sfakianakis](#) (University of St Andrews, United Kingdom)
: *A differential equation approach to cancer growth, invasion, and metastasis*

C. Epidemiology

- [Julien Arino](#) (University of Manitoba, Canada)
Title: *Deterministic models in mathematical epidemiology*
- [Frank Ball](#) (University of Nottingham, United Kingdom)
Title: *Stochastic models of epidemics*
- [Ruth Bowness](#) (University of Bath, United Kingdom)
Title: *Modelling infectious diseases within-host using a hybrid multiscale individual-based model*

D. Immunology and treatment

- [Rachel Bearon](#) (King's College London)
Title: *Insights from mathematical models of micro-tissues for drug uptake & cancer spread*
- [Gibin Powathil](#) (Swansea University, United Kingdom)
Title: *Mathematical Oncology: Introduction to agent-based modelling and multi-scale approach*

E. Cell Migration

- [John MacKenzie](#) (University of Strathclyde, United Kingdom) &
- [Robert Insall](#) (Beatson Institute & University College London, United Kingdom)
Title: *Helping dissect directed cell migration using computational modelling*
- [Fiona Macfarlane](#) (University of St Andrews, United Kingdom)
Title: *Discrete and continuum models of collective cell invasion processes*

