basque center for applied mathematics

Working Seminar
(MTB)

Friday, June 18th, 13:30

Prof. Philip Maini

Wolfson Centre for Mathematical Biology Mathematical Institute, University of Oxford, UK

Modelling collective cell movement in biology and medicine

Complicated Collective cell movement occurs throughout biology and medicine and there are many common features shared across different areas. I will review work we have carried out over the past few years on (i) systematically deriving a PDE model for tumour angiogenesis from a discrete formulation and comparing this model with the classical, phenomenological snail-trail model; (ii) agent-based models for cranial neural crest cell migration in a collaboration with experimental biologists that has revealed a number of new biological insights.

Link to the seminar:
https://zoom.us/j/93837609294?pwd=NjdLak5iWUpFQWd3SVVBLytHejhMUT09

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