

Modelling Collective Cell Motion in Biology

Maini, P. K.

University of Oxford

Philip.Maini@maths.ox.ac.uk

Collective cell motion, either in the form of individual cells signalling to each other, or moving as a sheet, is very common in biology. Here, I will present a hybrid discrete cell-based model for cranial neural crest cell invasion and a model for epidermal cell movement in intestinal crypts. The models will be compared with experimental results.