

MSc by Research in Infection and Immunity 2013-2014

Katy Turner & Alvedi Ganesh

Multipathogen modelling within a dynamic sexual network (chlamydia, gonorrhoea and human papillomavirus (HPV)): are all interventions equal?

The aim of this project is to explore the behaviour of an individual-based dynamic sexual network model including multiple infectious pathogens and to determine the relative effectiveness of different interventions which may be infection specific (e.g. HPV) vaccination or non-specific (e.g. condom use).

The project could potentially involve optimal control and health economics or comparison with ODE/PDE models depending on the interest of the candidate.

Informal enquiries: Katy.Turner@bristol.ac.uk