

Summary of the course

- Ecology – population dynamics
 - Biochemistry – enzyme-substrate kinetics
 - Physiology – neuronal signalling
 - Epidemiology – infectious disease modelling
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- Discrete time models (difference equations, recurrence relations)
 - Continuous time models (ordinary differential equations)

Where do we go from here?

- Spatial effects – pattern formation, travelling waves
 - Mechanics
 - Stochasticity (noise)
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- A number of 3rd and 4th year courses tackle these issues.

Wolfson Centre for Mathematical Biology **(WCMB)**

Founded in 1983 by Professor J.D. Murray FRS
(oldest math-bio centre in the world) to foster
interdisciplinary research

5 faculty, several affiliates, 25+ DPhils, 7 postdocs
and research fellows. No visitors.

See: www.maths.ox.ac.uk/groups/mathematical-biology
@WCMBlog

Present Studies in the WCMB

- Developmental biology
- Disease – cancer, wound healing, eye
- Work with pharmaceutical companies, research centres etc.
- Mathematical biology uses a vast range of mathematical, numerical and statistical techniques.
- While, in Oxford in general, there is a huge amount of activity in this field

THANK YOU

End of Lecture 8