

PUBLICATIONS

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Refereed Scientific Papers

1. Thornley S, Bullen C, **Roberts MG**. 2008 Hepatitis B in a high-prevalence New Zealand population: A mathematical model applied to infection control policy. *Journal of Theoretical Biology* 254:599-603.
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3. **Roberts MG**, Baker M, Jennings LC, Sertsov G, Wilson N. 2007 A model for the spread and control of pandemic influenza in an isolated geographical region. *Journal of the Royal Society Interface* 4:325-330.
4. **Roberts MG**, Heesterbeek JAP. 2007 Model-consistent estimation of the basic reproduction number from the incidence of an emerging infection. *Journal of Mathematical Biology* 55:803-816.
5. Heesterbeek JAP, **Roberts MG**. 2007 The type-reproduction number T in models for infectious disease control. *Mathematical Biosciences* 206:3-10.
6. Sertsov G, Wilson N, Baker M, Nelson P, **Roberts MG**. 2006. Estimation of key transmission parameters of an institutional outbreak during the 1918 influenza pandemic by mathematical modelling. *Theoretical Biology and Medical Modelling* 3:38. Published online November 2006.
7. **Roberts MG**. 2006. Modeling strategies for containing an invading infection. *Mathematical Population Studies* 13:205-214.
8. Aldis GK, **Roberts MG**. 2005. An integral equation model for the control of a smallpox outbreak. *Mathematical Biosciences* 195:1-22.

9. **Roberts MG**. 2004. Modelling strategies for minimizing the impact of an imported exotic infection. *Proceedings of the Royal Society, Series B* 271:2411-2415.
10. **Roberts MG**, Heesterbeek JAP. 2003 A new method for estimating the effort required to control infectious diseases. *Proceedings of the Royal Society, Series B* 270:1359-1364.
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12. Fulford GR, **Roberts MG**, Heesterbeek JAP. 2002. The metapopulation dynamics of an infectious disease: tuberculosis in possums. *Theoretical Population Biology* 61:15-29.
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14. Tobias MI, **Roberts MG**. 2001. Modelling physical activity: a multi-state life-table approach. *Australian and New Zealand Journal of Public Health* 25:141-148.
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18. Kao RR, Leathwick DM, **Roberts MG**, Sutherland IA. 2000. Nematode parasites of sheep: a survey of epidemiological parameters and their application in a simple model. *Parasitology* 121:85-103.
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20. **Roberts MG**. 1999. The immunoepidemiology of nematode parasites of farmed animals: A mathematical approach. *Parasitology Today* 15:246-251.

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26. Kao RR, **Roberts MG**, Ryan TJ. 1997. A model of bovine tuberculosis control in domesticated cattle herds. *Proceedings of the Royal Society, Series B* 264:1069-1076.
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Book Chapters

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2. Swinton J, Woolhouse MEJ, Dobson AP, Ferroglio E, Guberti V, Grenfell BT, Heesterbeek JAP, Hails R, Lavazza A, **Roberts MG**, White P. 2002. Microparasite transmission and persistence. In *The Ecology of Wildlife Diseases*, edited by Hudson P, Rizzoli A, Grenfell BT, Heesterbeek JAP, Dobson AP. Oxford, Oxford University Press:83-101.
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