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CHAPTER 22 Mathematical Modeling of Infectious Diseases Dynamics M. Choisy,^{1,2} J.-F. Guégan,² and P. Rohani^{1,3} ¹Institute of Ecology, University of Georgia, Athens, USA ²Génétique et Evolution des Maladies Infectieuses UMR CNRS-IRD, Montpellier, France ³Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, USA “As a matter of fact all epidemiology, concerned as it is ...

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Description; Chapters; Supplementary; The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Mathematical Modeling of Infectious Diseases: Dynamics and Control from 15 August to 9 October 2005. As part of the program, tutorials for graduate students and junior researchers were given by leading experts in the field.

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no gainsaying to aver that the SEIR model seems the most reliable extension of the SIR models during this pandemic due to its plausibility in explaining heterogeneous changes in features, structures, containment and risk analysis of the virus transmission.

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Mathematical Tools for Understanding Infectious Disease Dynamics by O. Diekmann, H. Heesterbeek and T. Britton Princeton University Press, pp. 516, ISBN 978-0-691-15539-5 Philip D. O'Neill School of Mathematical Sciences, University of Nottingham, Nottingham NG7 2RD, UK

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