

# Influenza Models: Prospects for Development and Use



Kilbourne (1973) described the student of influenza as continually looking back over his shoulder and asking what happened?, in the hope that understanding of past events will alert him to the catastrophies of the future. Experience suggests the futility of such a hope, since the most predictable feature of influenza is its unpredictability. Nonetheless, the stubborn viability of this hope is strongly affirmed by the many attempts, described and discussed in this volume, to develop a useful and practical representation of influenza virus behavior. I hasten to add, however, that the desired model has yet to be perfected. The existence and usefulness of animal models of infectious diseases of man are well documented. Reproduction of disease by infecting an experimental animal satisfies the third of Kochs four postulates to establish proof of disease causation by a specific bacterium. Animal models also have been extremely useful in studies of the pathogenesis, immunoprophylaxis, and specific therapy of several important diseases, including (with only modest success) influenza. Development of such a model is simple, at least in concept. and can be achieved by one or only a few scientists.

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Prospects for Development and Use. **Prospects for Universal Influenza Virus Vaccine - Volume 12** In a SIRS model, the intrinsic period of oscillation is approximately . Fine, P. 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(1983) Indiana and the influenza pandemic of 1918, Indiana Medical Influenza Models: Prospects for Development and Use, Lancaster: MTP **Prospects for Broadly Protective Influenza Vaccines - American** Kilbourne (1973) described the student of influenza as continually looking back over his shoulder and asking what happened?, in the hope that. **Dynamical resonance can account for seasonality of influenza** Influenza Models. Prospects for development and use. Proceedings of a working group on epidemiological models of influenza and their practical application,. **Prospects for Broadly Protective Influenza Vaccines - American** humans to infection with influenza is the development of antibody Targets that could Potentially be Used for Broadly Protective Vaccines. Target. Level of Associated with protection in human challenge model,69 pH1N1 epidemic in (Bailey, 1982 Koopman, 1987 ) shows mathematical model development oc- curring concurrently with recurrent cycles of disease and fell out of use by many epidemiologists (King In: P. Selby (Editor), Influenza Models--Prospects for. **Influenza and Some Related Mathematical Models - Springer** The development of vaccines that could provide broad protection against antigenically . Table 1Targets that could Potentially be Used for Broadly Protective Vaccines . 32, 33 Subsequent studies in the human challenge model have also **Properties and prospects of adjuvants in influenza vaccination** Influenza incidence exhibits strong seasonal fluctuations in tem- . Fine, P. 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