



KU LEUVEN

Laboratory for Computational and Evolutionary Virology
Department of Microbiology and Immunology
Rega Institute for Medical Research
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Group of Biomedical Sciences

Doctoral Thesis in Biomedical Sciences

**CONTINUOUS-TIME MARKOV CHAIN MODELS
FOR PATHOGEN PHYLODYNAMICS:
MODEL EXTENSION, SIMULATION AND VISUALISATION**

FILIP BIELEJEC

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KU Leuven – University of Leuven
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