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### The evolution of bacterial cell differentiation and multicellular organization

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# The evolution of bacterial cell differentiation and multicellular organization



Jordi van Gestel

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The research reported in this thesis was carried out at the Theoretical Research in Evolutionary Life Sciences group (TRÊS), which is part of the Groningen Institute for Evolutionary Life Sciences (GELIFES) of the University of Groningen (The Netherlands), according to the requirements of the Graduate School of Sciences (Faculty of Mathematics and Natural Sciences, University of Groningen). Part of the research was also carried out at Molecular Genetics group (MolGen), which is part of the Groningen Biomolecular Sciences and Biotechnology Institute (GBB) of the University of Groningen (The Netherlands); the Kolter lab, which is part of Microbiology and Immunobiology department of Harvard Medical School (USA); and the Program for Evolutionary Dynamics (PED), which is part of the Organismic and Evolutionary Biology department and the Mathematics department of Harvard University (USA).

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This thesis will be defended in public on

Friday 1 April 2016 at 16:15 hours

by

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