Genomics driven metabolomics novel strategies for the discovery and identification of secondary metabolites

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Curriculum Vitae

Marco Ries was born on October 16th, 1982. After his high-school diploma in 2002 and 9 months of military service, Marco studied chemistry at the Johannes-Gutenber University (Mainz, Germany) and University of Valencia (Valencia, Spain). During that time, he worked for Clariant GmbH (Frankfurt, Germany) and Sanofi-Aventis GmbH (Frankfurt, Germany), among others. After graduating with a diploma thesis in the field of analytical environmental chemistry under the supervision of Prof. Hoffmann in Mainz, Marco started his PhD project at the division of Analytical BioSciences of the University Leiden (Leiden, Netherlands) in November 2009. Since October 2013, Marco is writing his diploma thesis at the department for quantitative methods and mathematical economics of the University Hagen (Hagen, Germany) to complete his diplomas in business and economics.
Appendix

List of publications

Application of time-of-flight aerosol mass spectrometry for the online measurement of gaseous molecular iodine
Michael Kundel, Ru-Jin Huang, Ute Thorenz, Janine Bosle, Moritz Mann, Marco Ries, Thorsten Hoffmann

A branched biosynthetic pathway is involved in production of roquefortine and related compounds in Penicillium chrysogenum
Hazrat Ali*, Marco Ries*, Jeroen Nijland, Peter Lankhorst, Thomas Hankemeier, Roel Bovenberg, Rob Vreeken, Arnold Driessen

Novel key metabolites reveal further branching of the roquefortine/meleagrin biosynthetic pathway
Marco Ries*, Hazrat Ali*, Peter Lankhorst, Thomas Hankemeier, Roel Bovenberg, Arnold Driessen, Rob Vreeken
J. Biol. Chem. 2013; 288 (52): 37289-37295

A single unspecific non-linear NRPS is involved in the synthesis of cyclic tetrapeptides in Penicillium chrysogenum
Hazrat Ali*, Marco Ries*, Peter Lankhorst, Rob van der Hoeven, Olaf Schouten, Marek Noga, Thomas Hankemeier, Noel van Peij, Roel Bovenberg, Rob Vreeken, Arnold Driessen
Submitted to PLoS One

Chemoinformatics supported MS\textsuperscript{n} Comparison Pipeline (CMCP): Towards automated de novo structure elucidation using multiple-stage fragmentation tree comparison
Marco Ries, Jeroen Kazius, Hazrat Ali, Arnold Driessen, Thomas Hankemeier, Theo Reijmers, Rob Vreeken
Manuscript in preparation

Multiple stage fragmentation tree comparison enables detailed structure elucidation in direct infusion mass spectrometry based experiments
Manuscript in preparation

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