

CURRICULUM VITAE

DR. RER. NAT. NADINE MÖBIUS

Stifterstr. 4
07743 Jena, Germany
nadine.moebius@gmx.net
1/3/1983 in Dresden
two kids (9 and 11)



I'm a researcher with 6 years' experience in the fields of microbiology, natural product chemistry and molecular biology applying a broad spectrum of techniques, including experience in bioinformatics and NextGen Sequencing. I have teaching experience and gained additional knowledge in the area of science management by heading the organization team of an international conference and organizing seminars series.

from 03/2017 Employe for CloudIT (international Marketing, Translation)

ACADEMIC CAREER

09/2016 **Short-term lecturer** „Introduction to biology“

from 04/2014 Maternal Leave

10/2012-03/2014 **Associate Researcher** at Leibniz Institute for Natural Product Research and Infection Biology (HKI Jena, Germany)

09/2008 – 03/2014 **Doctoral Researcher** at HKI Jena
„Molecular Studies of Symbioses factors and toxin biosynthesis in *Burkholderia-Rhizopus* interactions“ (Magna cum laude),
Supervisor: Prof. Dr. Christian Hertweck
Representative of Doctoral Researchers at JSMC Graduate School, Member of the Executive Board

10/2011-10/2012 Maternal leave

09/2008-09/2012 Stipend of the Jena School for Microbial Communication (JSMC) as part of the DFG excellence initiative

11/2006 - 11/2007 **Master thesis** at the Institute for Cellular Pathology (ICP) TROP Research Unit (UCL Louvain), Brussels, Belgium.

10/2002 - 08/2008 “Characterization of a putative Hexose 6-phosphate mutarotase
in *Trypanosoma brucei*“, Supervisor: Prof. Paul Michels
Studies of Biochemistry/Molecular Biology
Friedrich-Schiller-University Jena, Diplom (1,2),
2001 **A-levels**, Dresden, Germany

RESEARCH STAYS ABROAD

11/2007 - 01/2008 **Institut malgache de recherche appliqué (IMRA)**,
Antananarivo, Madagascar: Investigation of plant extracts based
on ethnobotanical studies

01/2005 - 03/2005 **Centro de Investigación científica de Yucatán**, Mexico:
Genetic and biochemical studies in Coffee leave cells

08/2004 - 10/2004 **Buenos Aires (UBA), Argentina (IAESTE-DAAD Stipend)**
Universidad de Buenos Aires: Synthesis and functional analysis
of hallucinogenic plant compounds

LANGUAGE SKILLS

German	mother tongue
English, French	excellent
Spanish, Dutch	good knowledge

COMPUTER SKILLS

MS Office, SeqMan Suite, Adobe Creative Suite, genome
analyses software, Open Office

ADDITIONAL KNOWLEDGE AND EXPERIENCES IN SCIENTIFIC COORDINATION

2008-2010 Doctoral Speaker of the Excellence Initiative
"Jena School for Microbial Communication" (JSMC)

2010 Head of the organization team of the International Student
Conference on Microbial Communication (MICOM 2010;
www.micom.uni-jena.de)

2009-2013 Mentoring of several practical laboratory trainings and the
tutorial of natural product chemistry , mentoring Bachelor,
diploma and master thesis,

REFERENCES

Prof. Dr. Christian Hertweck

Leibniz Institute for Natural Product Research and Infection Biology, HKI

Beutenbergstr. 11a

07745 Jena, Germany

Tel. +49 (0) 3641 532 1100

Fax +49 (0) 3641 532 0804

christian.hertweck@leibniz-hki.de

Dr. Carsten Thoms

(former scientific manager of the Jena School for Microbial Communication)

Kennedyallee 40

53175 Bonn

carsten.thomas@dfg.de

Tel. +49 (0) 2288853335

PUBLICATIONS

Horn, F., Üzüm, Z., **Moebius, N.**, Guthke, R., Linde, J., Hertweck, C. Draft Genome Sequences of Symbiotic and Nonsymbiotic *Rhizopus microsporus* Strains CBS 344.29 and ATCC 62417. *Genome Announc* 2015 3(1), pii: e01370-14.

Moebius, N., Üzüm, Z., Dijksterhuis, J., Lackner, G., Hertweck, C. Active invasion of bacteria into living fungal cells. *Elife* 2014, e03007.

Moebius, N., Ross, C., Scherlach, K., Rohm, B., Roth, M., Hertweck, C. Biosynthesis of the respiratory toxin Bongkrekic Acid in the Pathogenic Bacterium *Burkholderia gladioli*. *Chem Biol*. 2012 19(9):1164-1174.

Lackner, G., **Moebius, N.**, Hertweck, C. Endofungal Bacterium Controls its Host by a *hrp* Type III Secretion System. *ISME J*. 2011 5(2):252-261.

Lackner, G., **Moebius, N.**, Partida-Martinez, L.P., Boland, S., Hertweck, C. Evolution of an Endofungal Lifestyle: Deductions from the *Burkholderia rhizoxinica* genome. *BMC Genomics*. 2011 4(12):210-223.

Rohm, B., Scherlach, K., **Moebius, N.**, Partida-Martinez, L.P., Hertweck, C. Toxin Production by Bacterial Endosymbionts of a *Rhizopus microsporus* strain used for Tempe/Sufu Processing. *Int J Food Microbiol*. 2010 136(3):368-371.

Lackner, G., **Moebius, N.**, Scherlach, K., Partida-Martinez, L.P., Winkler R., Schmitt I., Hertweck, C. Global Distribution and Evolution of a Toxinogenic *Burkholderia-Rhizopus* Symbiosis. *Appl Environ Microbiol*. 2009 May 75(9):2982-2986.

Möbius, N., Hertweck, C. Fungal Phytotoxins as Mediators of Virulence. *Curr Opin Plant Biol*. 2009 Aug 12(4):390-8.

Guillén, D. K., **Möbius, N.**, Rodríguez-Zapata, L. C., Castaño, E. A Simple Protocol for the Expression and Purification of NC2. *Asian J Biochem*. 2007 2(4):263-268.

Castaño, E. L., Rodríguez-Zapata, L. C., Rodríguez, H. P., **Möbius, N.** Native NC2 Selectively Represses Incorrect Transcription Initiation. *Mol Biol J*. 2006, 40(2):284-288.

Colli, J. G., Guillén, D., Rodríguez, L. C., **Möbius, N.**, Castaño, E. Direct Interaction Between NC2 and a Subunit of the SRBM/Mediator Co-activator. *Asian J Biochem*. 2006 1(1):75-83.