

## Curriculum Vitae

### Education

- 12/2008 – 12/2012**      **PhD Studies (date of defense: 06/05/2013)**
- Evolutionary Genomics and Integrative Bioinformatics Lab at the Theoretical Biology and Bioinformatics Group, Department of Biology, Utrecht University, Netherlands
- Thesis: Exploring Biology and Evolution of Oomycetes: Comparative and Integrative Genomics
- Promotor:        Prof. Dr. Govers and Prof. Dr. Hogeweg  
Co-Promotor:    Dr. Snel and Dr. Van den Ackerveken
- 09/2008**                **Graduation in Biology ("Diplom Biologe Univ.") – with distinction**
- Julius-Maximilians-Universität Würzburg, Germany
- Thesis: Simplifications of Molecular Machines in Model Organisms
- Supervisor: Prof. Dr. Schultz (Department of Bioinformatics)
- 04/2006 - 09/2008**    **Studies in Biology (advanced study period)**
- Julius-Maximilians-Universität Würzburg, Germany
- Specialization: Bioinformatics, Biochemistry, Genetics
- 10/2003 - 03/2006**    **Studies in Biology (basic study period)**
- Technische Universität Darmstadt, Germany

### Working Experience

- 12/2012 – present**    **Visiting Scientist**
- Laboratory of Phytopathology, Wageningen University, The Netherlands
- 12/2012 – present**    **Research Fellow**
- Theoretical Biology & Bioinformatics, Utrecht University, The Netherlands
- 09/2008 - 11/2008**    **Graduate Assistant**
- Department of Bioinformatics, Julius-Maximilians-Universität Würzburg
- 09/2007 - 09/2008**    **Student Assistant**
- Department of Bioinformatics, Julius-Maximilians-Universität Würzburg
- 04/2007 - 07/2007**    **Internship**

Department of Bioinformatics and Statistical Genetics  
The Wellcome Trust Center for Human Genetics, University Oxford

Supervisor: Dr. Copley

**10/2005 - 02/2006      Student Assistant**

Department of Plant Biology, Technische Universität Darmstadt

**07/2002 - 03/2003      Military Service**

Panzerbataillon 363 Kùlsheim, Germany

## Scientific Presentations

- 2012    CBSG Summit, Wageningen (NL); Oral Presentation: "*An Integrative Probabilistic Functional Gene Network in the Plant Pathogen Phytophthora infestans*"
- 2012    SMBE 2012, Dublin (IRL); Poster Presentation: *An Integrative Probabilistic Functional Gene Network in the Plant Pathogen Phytophthora infestans*"
- 2012    CBSG Summit, Wageningen (NL); Poster Presentation: *An Integrative Probabilistic Functional Gene Network in the Plant Pathogen Phytophthora infestans*"
- 2011    Comparative Genomics of Eukaryotic Microorganisms (EMBO Conference), San Feliu de Guixols (Spain); Oral Presentation: "*In silico Identification of Cis-regulatory Motifs in the Late Blight Pathogen Phytophthora infestans*"
- 2011    Fungal Genetics Conference, Asilomar (USA); Poster Presentation: "*Genome Reconstruction of Oomycete Pathogens*"
- 2011    Oomycete Molecular Genetics Network Meeting, Asilomar (USA); Oral Presentation: "*Genome Reconstruction of Oomycete Pathogens*"
- 2011    CBSG Summit, Wageningen (NL); Oral/Poster Presentation: "*Genome Reconstruction of Oomycete Pathogens*"
- 2010    CBSG Summit, Wageningen (NL); Poster Presentation: "*Lineage Specific Gene Expansion and Evolution of Virulence in Plant Pathogen Genomes - A domain Survey of Oomycetes*"
- 2008    German Conference on Bioinformatics (GCB), Dresden (DE); Poster Presentation: "*Evolutionary Flexibility of Protein Complexes*"

## Publications

- 2013    Jiang RHY, de Bruijn I, Haas BJ, Belmonte R, Löbach L, Christie J, van den Ackerveken G, Bottin A, Dumas B, Fan L, Gaulin E, Govers F, Grenville-Briggs LJ, Horner NR, Levin JZ, Mammella M, Meijer HJG, Morris P, Nusbaum C, Oome S, van Rooyen D, Saraiva M, Secombes CJ, **Seidl MF**, Snel B, Stassen JHM, Sykes S, Tripathy S, van den Berg H, Vega-Arreguin JC, Wawra S, Young SK, Zeng Q, Dieguez-Uribeondo J, Russ C, Tyler BM and van West P  
*Distinctive expansion of potential virulence genes in the genome of the oomycete fish pathogen Saprolegnia parasitica*  
*PLoS Genetics* (in press)
- 2012    **Seidl MF**, Wang R-P, Van den Ackerveken G, Govers F & Snel B  
*Bioinformatic Inference of Specific and General Transcription Factor Binding Sites in*

*the Plant Pathogen* *Phytophthora infestans*  
*PLoS ONE* 7(12): e51295. doi:10.1371/journal.pone.0051295

- 2012 **Seidl MF**, Van den Ackerveken G, Govers F & Snel B  
*Reconstruction of oomycete genome evolution identifies differences in evolutionary trajectories leading to present-day large gene families*  
*Genome Biol. Evol.* 4 (3): 199-211 doi:10.1093/gbe/evs003
- 2012 Stassen JHM, **Seidl MF**, Vergeer PWJ, Nijman IJ, Snel B, Cuppen E & Van den Ackerveken G  
*Effector identification in the lettuce downy mildew *Bremia lactucae* by massively parallel transcriptome sequencing*  
*Mol. Plant Pathol.* doi:10.1111/j.1364-3703.2011.00780.x
- 2011 Cabral A, Stassen JHM, **Seidl MF**, Bautor J, Parker JE & Van den Ackerveken G  
*Identification of *Hyaloperonospora arabidopsidis* transcript sequences expressed during infection reveals isolate-specific effectors*  
*PLoS ONE* 6(5): e19328 doi:10.1371/journal.pone.0019328
- 2011 **Seidl MF**, Van den Ackerveken G, Govers F & Snel B  
*A domain-centric analysis of oomycete plant pathogen genomes reveals unique protein organization*  
*Plant Physiology* 155:628-644, doi:10.1104/pp.110.167841
- 2009 **Seidl MF** & Schultz J  
*Evolutionary flexibility of protein complexes*  
*BMC Evol. Biol.*, 9:155 doi:10.1186/1471-2148-9-155

## Grants

- 2012 CBSG2012 Sequencing Hotel Grant, co-applicant with Dr. Snel (main applicant), Prof. Dr. Govers and Dr. Meijer
- 2010 Travel Grant of the US Department of Agriculture to attend the *Saprolegnia* annotation jamboree at Virginia Tech University (USA)

## Teaching

Systems Biology (Bachelor Course); Bioinformatics and Evolutionary Genomics (Master Course); Introduction to Bioinformatics for Molecular Biologists (Master Course); Comparative Genomics: From Evolution to Function (PhD Course)

## Reviewer

*PLoS Genetics; Plant Physiology; Plant Biology; PLoS ONE*