

Andi Wilson

Curriculum Vitae

**Department of Genetics
Forestry & Agricultural Biotechnology Institute
University of Pretoria
Pretoria
0028
South Africa**

PERSONAL INFORMATION

Date of Birth	16 September 1991	
Research Address	Shaw Lab, Forestry and Agricultural Biotechnology Institute (FABI), Department of Genetics, University of Pretoria	
Citizenship	South African	
Contact Details	(+27) 82 822 2573 Andi.wilson@fabi.up.ac.za	
Website	www.fabinet.up.ac.za/index.php/peopleprofile?profile=1109	
ORCID Website	https://orcid.org/0000-0002-3239-0045	

EDUCATION

2016 - Current	Doctor of philosophy (PhD): Genetics University of Pretoria
2014 - 2015	Master of Science (MSc): Genetics University of Pretoria <i>Cum laude</i> (82%)
2013	Bachelor of Science-Honours (BSc (Hons)): Genetics University of Pretoria <i>Cum laude</i> (79.3%)
2010 - 2012	Bachelor of Science (BSc): Human Genetics University of Pretoria <i>Cum laude</i> (79.8%)
2005 - 2009	High School: Mathematics, Physical Sciences, Life Sciences, Accounting, English & Afrikaans Uplands College <i>Cum laude</i> (85.2%)

**RESEARCH OUTPUTS:
PEER-REVIEWED PUBLICATIONS**

- 2018** **Wilson, A.M., M.A. van der Nest, P.M. Wilken, M.J. Wingfield and B.D. Wingfield**
Pheromone expression reveals putative mechanism of unisexuality in a saprobic ascomycete fungus. PLOS One 13(3):e0192517
- 2016** **Wingfield, B.D., T.A. Duong, A. Hammerbacher, M.A. van der Nest, A.M. Wilson, R. Chang, Z.W. de Beer, E.T. Steenkamp, P.M. Wilken, K. Naidoo, and M.J. Wingfield**
Draft genome sequences for *Ceratocystis fagacearum*, *C. harringtonii*, *Grosmannia penicillata*, and *Huntia bhutanensis*. IMA Fungus 7(2):317-323
- 2015** **Wilson, A.M., P.M. Wilken, M.A. van der Nest, E.T. Steenkamp, M.J. Wingfield and B.D. Wingfield**
Homothallism: An Umbrella Term for describing Diverse Sexual Behaviours.
IMA Fungus 6(1): 207-214.
- 2015** **Wilson, A.M., T. Godlonton, M.A. van der Nest, P.M. Wilken, M.J. Wingfield and B.D. Wingfield**
Unisexual Reproduction in *Huntia moniliformis*.
Fungal Genetics and Biology 80: 1-9.
- 2014** **Van der Nest, M.A., P.M. Wilken, K. Naidoo, D. Roodt, J. Crouch, J.E. Demers, L.A. Beirn, S. Sanchez-Ramirez, M. Stata, J. Monclavo, Z.W. De Beer, L. De Vos, T.R. Gordon, Q.C. Santana, S.L. Slinkski, S.J. Taerum, A.M. Wilson, M.J. Wingfield and B.D. Wingfield**
Draft Genome Sequences of *Amanita jacksonii*, *Ceratocystis albifundus*, *Fusarium circinatum*, *Huntia omanensis*, *Leptographium procerum*, *Rutstroemia sydowiana* and *Sclerotinia echinophila*.
IMA Fungus 5: 473-485
- 2014** **Van der Nest, M.A., W. Bihon, L. De Vos, K. Naidoo, D. Roodt, E. Rubagotti, B. Slippers, E.T. Steenkamp, P.M. Wilken, A.M. Wilson, M.J. Wingfield and B.D. Wingfield**
Draft Genome Sequence of *Diplodia sapinea*, *Ceratocystis manginecans*, and *Ceratocystis moniliformis*.
IMA Fungus 5: 135-140

**RESEARCH OUTPUT:
CONFERENCE ABSTRACTS**

- 2018** **A.M. Wilson, P.M. Wilken, M.A. van der Nest, M.J. Wingfield & B.D. Wingfield**
Characterization of *MAT1-2-7*; a novel mating gene in *Huntiella omanensis*
South African Society of Microbiology Conference, 4 – 7 April
Misty Hills Hotel & Conference Venue, Johannesburg, South Africa
- 2017** **A.M. Wilson, P.M. Wilken, M.A. van der Nest, M.J. Wingfield & B.D. Wingfield**
Unpacking the Molecular Mechanism behind Unisexual Reproduction in *Huntiella moniliformis* (poster presentations)
Life Sciences Symposium, 18 – 19 May
Pennsylvania State University, State College, USA
- 2017** **A.M. Wilson, P.M. Wilken, M.A. van der Nest, M.J. Wingfield & B.D. Wingfield**
Unpacking the Molecular Mechanism behind Unisexual Reproduction in *Huntiella moniliformis* (oral & poster presentations)
Fungal Genetics Conference, 14 – 19 March
Asilomar Conference Grounds, Pacific Grove, USA
- 2016** **Wilson, A. M., M. A. van der Nest, P. M. Wilken, M. J. Wingfield and B. D. Wingfield**
Understanding Unisexual Reproduction in *Huntiella moniliformis* (oral presentation)
South African Genetics Society/South African Society of Bioinformatics Congress, 20 – 23 September
Durban, South Africa
- 2015** **Wilson, A.M., P.M. Wilken, M.A. Van der Nest, M.J. Wingfield and B.D. Wingfield**
Unisexual Reproduction in *Huntiella moniliformis* (poster presentation)
Fungal Genetics Conference, 17 – 22 March
Asilomar Conference Grounds, Pacific Grove, USA
- 2015** **Wilson, A.M., P.M. Wilken, M.A. Van der Nest, M.J. Wingfield and B.D. Wingfield**

Characterization of the *MAT* Locus in the saprobe *Huntia omanensis* (poster presentation)
South African Association of Botanists Congress
Venda, South Africa

2015

Wilson, A.M., P.M. Wilken, M.A. Van der Nest, M.J. Wingfield and B.D. Wingfield

Characterization of the *MAT* Locus in the saprobe *Huntia omanensis* (poster presentation)
South African Society for Plant Pathology, 18 – 21 January
University of the Free State, Bloemfontein, South Africa

**RESEARCH OUTPUT:
OTHER SCIENCE COMMUNICATION**

2018

Wilson, A.M.

Sex: birds do it, bees do it - and fungi do it too. Here's how, and why it matters
The Conversation Africa.

AWARDS & SCHOLARSHIPS:

2018

Travel Award

WhiteSci Travel Award Scheme

2018

Travel Award for PhD Student

Genes Journal

2018

Best PhD Presentation at the SASM Conference

South African Society of Microbiology

2017-2018

Scarce Skills Scholarship for Doctoral Students

National Research Foundation

2017

FABlan of the Year

Forestry & Agricultural Biotechnology Institute

2017

Woman in Science Award: PhD Fellowship

Department of Science & Technology

- 2017** **Study Abroad Bursary**
University of Pretoria
- 2017** **PhD Student Bursary**
University of Pretoria
- 2016** **Best MSc Student of 2015/16**
Forestry & Agricultural Biotechnology Institute
- 2016** **Mentorship Award**
Forestry & Agricultural Biotechnology Institute
- 2016** **Merit Certificate for Academics for MSc: Genetics Degree**
University of Pretoria
- 2016** **Grantholder Linked Bursary for Master's Students**
National Research Foundation
- 2014** **Academic Honorary Colours for BSc(Hons): Human Genetics**
University of Pretoria

**MEMBERSHIP TO ASSOCIATIONS
AND SOCIETIES :**

-
- 2018** **FABI Social Club**
 - 2018** **CTHB Mentorship Program Committee**
 - 2018** **South African Genetics Society (SAGS)**
 - 2018** **South African Society of Microbiology (SASM)**
 - 2017 - Current** **Genetics Society of America (GSA)**
 - 2011 - Current** **Golden Key Society**
 - 2016 - Current** **Postgraduate Student Association of Natural and Agricultural Sciences**
FABI Representative & Secretary
 - 2014** **FABI Social Club**

2011-2011

TuksVillage Residence Management Committee
Head of the Academic Portfolio

EXPERIENCE:

**International
Lab Visits**

Pennsylvania State University
27 April – 30 June 2017

**Research
Techniques**

Molecular Techniques

Conventional and reverse transcription PCR, agarose gel electrophoresis, Sanger sequencing, DNA and RNA extractions

Bioinformatic Techniques

Draft genome assembly, genome mining and gene identification, primer design, RNA-Seq analysis

Mycological Techniques

Fungal isolation, culturing and maintenance, single ascospore isolations and matings

**Teaching
& Tutoring**

2018

Third year level molecular genetics
Grades 10, 11 and 12 physical sciences, mathematics and advanced program mathematics

2014 - 2017

Third year level population genetics

2015 - 2016

Second year level molecular genetics

2014

**Other Relevant
Experiences**

First year level molecular biology

2013

First year level genetics

2014 - Current

Mentor in the Centre of Excellence in Tree Health Biotechnology (CTHB) mentorship program at FABI

2014 - Current

Work experience student at FABI

2017

Genome Annotation Workshop

2017

Genome Annotation Workshop

2014

Ceratocystis Genome Annotation Jamboree

2011 - 2012

Mentorship student in the Centre of Excellence in Tree Health Biotechnology (CTHB) mentorship program at FABI