

Fahimeh Jami (Ph.D)

Senior Researcher

Agricultural Research Council

Roodeplaat

0186

South Africa

Office Phone: +27 12 808 8289

Cell phone: +27 76 493 6155

Email: JamiF@arc.agric.za

Education

2008- 2013	Ph.D. Plant pathology, University of Pretoria, South Africa • Taxonomy and ecology of <i>Botryosphaeriaceae</i> associated with <i>Vachellia</i> (=Acacia) <i>karroo</i> in South Africa
2002-2004	MSc. Plant pathology, University of Guilan, Iran • Identification of Pseudomonadaceae on stone fruit in Guilan province
1997-2001	BSc. Plant Protection, University of Guilan, Iran

Skills

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1. Plant pathology.
 2. Mycology.
 3. Molecular and Microscopic skills.
 4. Leading plant diagnostic laboratories.
 5. Training plant pathology in different laboratories.
 6. Screening trials.
 7. Teaching plant pathology course for undergraduate students.
 8. Teaching mycology course for post-graduates.
 9. Supervision of Hon. BSc, MSc and PhD students.

Professional Experiences

April 2021-present	Senior Researcher (Agricultural Research Council, Biosystematics, Mycology)
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- ☐ Identification of deposited *Botryosphaerales* isolates in the Fungal National Collection.
 - ☐ Contributing to the Natural Science Collections Facility.
 - ☐ Identification of fungal diseases on agricultural crops.
 - ☐ Training technicians/students/internships for molecular analyses.
 - ☐ Supervising/co-supervising post-graduate students.
- 2018 (Sep)-March 2021 **Senior Postdoctoral Research Fellow** (Between University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa and Forestry Industry, Royal Golden Eagle (RGE), Indonesia)
- ☐ Identification of *Botryosphaerales* species and their pathogenic risks in eucalypts plantations in Indonesia.
 - ☐ Investigating of the effect of fungicides on the *Botryosphaerales* species.
 - ☐ Preparing a laboratory manual book for plant pathology centre.
 - ☐ Supervising and co-supervising MSc and PhD students.
 - ☐ Training technicians for plant disease diagnostic division.
- 2015-2018 (Sep) **Research Fellow** (University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa)
- ☐ Revising the taxonomy of *Cytospora*.
 - ☐ *Botryosphaerales* species diversity on woody plants in South Africa.
 - ☐ Identification of pathogen risks in South African botanical gardens.
 - ☐ *Botryosphaerales* distribution on *Proteaceae* in South Africa and Australia.
 - ☐ Supervising Hons students.
- 2014-2015 **Postdoctoral research fellow** (University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa)
- ☐ *Botryosphaerales* species diversity on woody plants in South

Africa.

- 2013-2018 **Technical manager** (University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa)
□ Pine screening trials project for *Fusarium circinatum*.
- 2011-2013 **Assistance Plant Pathology** (Disease Clinic division of Forestry and Agricultural Biotechnology Institute (FABI), South Africa)
- 2002-2008 **Forest Pathology Researcher** (Research Institute of Forests and Rangelands of Iran (RIFRI), Iran)

Research Publications

Peer-Reviewed Publications

1. F. Jami, S. Marincowitz, A. Durán, B. Slippers, J. I. M. Abad, S. Chen, M.J. Wingfield. 2021. *Botryosphaeriaceae* diversity on *Eucalyptus* clones in different climate zones of Indonesia, Forest Pathology (In Press).
2. F. Jami, S. Marincowitz, B. Slippers, P.W. Crous, J.J. Le Roux, D.M. Richardson, M.J. Wingfield. 2019. *Botryosphaeriaceae* associated with *Acacia heterophylla* (La Réunion) and *A. koa* (Hawaii). Fungal Biology, 123: 783-790.
3. F. Jami, S. Marincowitz, B. Slippers, M.J. Wingfield. 2018. New Botryosphaeriales on native red milkwood (*Mimusops caffra*). Australasian Plant Pathology, 47: 475-484
4. F. Jami, S. Marincowitz, P.W. Crous, A. Jacobsohn, M.J. Wingfield. 2018. A new *Cytospora* species pathogenic on *Carpobrotus edulis* in its native habitat. Fungal Systematics and Evolution, 2: 37-48.
5. T.I Burgess, Y.P Tan, J. Garnas, J. Edwards, K.A Scarlett, L.A Shuttleworth, R. Daniel, E.K Dann, L.E Parkinson, Q. Dinh, R.G Shivas, F. Jami. 2018. Current status of the *Botryosphaeriaceae* in Australia. Australasian Plant Pathology, 48:35-44.
6. Y.P. Tan, R.G. Shivas, T.S. Marney, J. Edwards, J. Dearnaley, F. Jami, T.I. Burgess. 2018. Australian cultures of Botryosphaeriaceae held in Queensland and Victoria plant pathology herbaria revisited. Australasian Plant Pathology, 48: 25-34.
7. M. Zlatković, M.J. Wingfield, F. Jami, B. Slippers. 2019. Genetic uniformity characterizes the invasive spread of *Neofusicoccum parvum* and *Diplodia sapinea* in the Western Balkans. Forest Pathology 49: e12491.
8. M. Zlatković, M.J. Wingfield, F. Jami, B. Slippers. 2018. Host specificity of co-infecting

Botryosphaeriaceae on ornamental and forest trees in the Western Balkans. Forest Pathology, 48: e12410.

9. I. Krisai-Greilhuber, Y. Chen, S. Jabeen, H. Madrid, S. Marincowitz, A. Razaq, H. Sevcíková, H. Voglmayr, K. Yazici, A. Aptroot, A. Aslan, T. Boekhout, J. Borovicka, P.W. Crous, S. Ilyas, **F. Jami**, Y. Jiang, A.N Khalid, A. Kolecka, T. Konvalinková, C. Norphanphoun, S. Shaheen, Y. Wang, M. J Wingfield, S. Wu, Y. Wu, J. Yu. 2017. Fungal Systematics and Evolution: FUSE 3. Sydowia 69: 229-264.
10. **F. Jami**, M. Gryzenhout, M.J. Wingfield, B. Slippers. 2017. Diversity of tree-infecting *Botryosphaeriales* on native and non-native trees in South Africa and Namibia, Australasian Plant Pathology 46: 529-545.
11. T. Yang, J. Z Groenewald, R. Cheewangkoon, **F. Jami**, J. Abdollahzadeh, L. Lombard, P. W Crous. 2017. Families, genera, and species of *Botryosphaeriales*. Fungal Biology 4: 322-346.
12. B. Slippers, P.W Crous, **F. Jami**, J.Z Groenewald, M.J Wingfield. 2017. Diversity in the *Botryosphaeriales*: Looking back, looking forward. Fungal Biology 121: 307-321.
13. Marsberg, M. Kemler, **F. Jami**, J.H Nagel, A. Postma-Smidt, S. Naidoo, M.J Wingfield, P.W Crous, J.W Spatafora, C.N Hesse, B. Robbertse, B. Slippers. 2017. *Botryosphaeria dothidea*: a latent pathogen of global importance to woody plant health. Molecular Plant Pathology 18: 477-488.
14. M. Zlatković, N. Keca, M.J. Wingfield, **F. Jami**, B. Slippers. 2017. New and unexpected host associations for *Diplodia sapinea* in the Western Balkans. Forest Pathology, 47: e12328.
15. M. Zlatković, N. Keča, M.J. Wingfield, **F. Jami**, B. Slippers. 2016. Shot hole disease on *Prunus laurocerasus* caused by *Neofusicoccum parvum* in Serbia. Forest Pathology, 46: 666- 669.
16. M. Zlatković, N. Keca, M.J. Wingfield, **F. Jami**, B. Slippers. 2016. *Botryosphaeriaceae* associated with the die-back of ornamental trees in the Western Balkans. Antonie van Leeuwenhoek, 109: 543-564.
17. **F. Jami**, B. Slippers, M.J. Wingfield, Loots M.T, M. Gryzenhout. 2015. Temporal and spatial variation of *Botryosphaeriaceae* associated with *Acacia karroo* in South Africa. Fungal

Ecology, 15:51-62.

18. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2014. *Botryosphaeriaceae* species overlap on four unrelated, native South African hosts, Fungal Biology, 118: 168-179.
19. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2013. *Botryosphaeriaceae* diversity greater in healthy than associated diseased *Acacia karroo* tree tissue. Australasian Plant Pathology, 42: 421-430.
20. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2012. Five new species of the *Botryosphaeriaceae* from *Acacia karroo* in South Africa. Cryptogamie Mycologie, 33: 245-266.
21. B. Slippers, J. Roux, M.J. Wingfield, F.J.J. Van der Walt, **F. Jami**, Marais GJ, 2014. Confronting the constraints of morphological taxonomy in the fungi: A *Botryosphaeriaceae* case study. Persoonia, 33: 155-168.
22. M. Gryzenhout, **F. Jami**, B. Slippers, B.D Wingfield, M.J. Wingfield. 2009. *Botryosphaeriaceae* as endophytes and pathogens of trees in South Africa. South African Journal of botany, 75: 403.
23. **F. Jami**, M.N. Kazempour, S.A. Elahinia. 2008. Identification of bacterial canker agent on wild stone fruit trees in Guilan Province. Journal of Applied Horticulture, 10: 142-145.
24. **F. Jami**, S. E. Sadeghi, S.R. Tabai Aghdai, M.H. Asareh, F. Fazaeli. 2006. Evaluation of powdery mildew (*Sphaeroteca pannosa*) on *Rosa domascena*. Iranian Journal of Rangelands and Forests Plant Breeding and Genetic Research, 15: 63 (English Abstract).
25. M.R. Arefipour, H. Askary, H. Zarghni, M. Niknejad, A.N. Salari, **F. Jami**. 2006. Report of *Cryphonectria parasitica* causing agent of chestnut blight from Iran. Iranian Journal of Forest and Range Protection Research, 1: 43 (English Abstract).
26. **F. Jami**, M.N. Kazempour, S.A. Elahinia and G. Khodakaramian. 2005. First report of *Xanthomonas arboricola* pv. *pruni* the agent of bacterial leaf spot of stone fruits in Iran. Journal of Phytopathology, 6: 335.

Conference Proceedings and Presentation Publications

1. **F. Jami**, S. Marincowitz, A. Durán, B. Slippers, J. I. M. Abad, M. J. Wingfield. 2020. *Botryosphaeriaceae* diversity on *Eucalyptus* clones in different climate zones of

- Indonesia. Mycological Society of America (MSA). July22. Virtual Meeting (Conference proceeding).
2. **F. Jami**, D. Migliorini, M.J. Wingfield, P.W. Crous, B. Slippers, T.I. Burgess. 2019. Comparison of Botryosphaeriaceae on Proteaceae in cultivated orchards and natural habitats Proceedings of the Southern African Society for Plant Pathology (SASPP) congress, South Africa (Oral Presentation).
 3. **F. Jami**, D. Migliorini, T.I. Burgess, P.W. Crous, B. Slippers, M.J. Wingfield. 2018. Diversity of Botryosphaeriaceae on Proteaceae in South Africa, Australia and Portugal. International Congress of Plant Pathology (ICPP), Boston, USA (Poster Presentation).
 4. **F. Jami**, S. Marincowitz, P.W. Crous, B. Slippers, J.J. Le Roux, D.M. Richardson, M.J. Wingfield. 2018. Botryosphaeriaceae diversity on *Acacia koa* and *A. heterophylla* in La Réunion and Hawaiian Islands. International Congress of Plant Pathology (ICPP), Boston, USA (Poster Presentation).
 5. **F. Jami**, S. Marincowitz, P.W. Crous, B. Slippers, J.J. Le Roux, D.M. Richardson, M.J. Wingfield. 2017. Comparison of the Botryosphaeriaceae on *Acacia koa* and *A. heterophylla*: Evidence of a long-standing separation of two genetically close, but geographically isolated, tree populations. IUFRO 125th Anniversary Congress, Freiburg, Germany (Oral Presentation).
 6. **M. Zlatkovid**, N. Keča, M.J. Wingfield, **F. Jami**, B. Slippers. 2016. Botryosphaeriaceae on *Sequoia sempervirens* in Serbia. Belgrade Bioinformatics Conference-BelBi, Serbia (Poster Presentation).
 7. **M. Zlatkovid**, N. Keča, M.J. Wingfield, **F. Jami**, B. Slippers. 2016. Botryosphaeriaceae on *Aesculus hippocastanum* in Serbia. Belgrade Bioinformatics Conference-BelBi, Serbia (Poster Presentation).
 8. **F. Jami**, J.Z. Groenewald, M.J. Wingfield, P.W. Crous. 2016. Revising the taxonomy of the genus *Cytospora*. CBS Symposium: Fungal Biodiversity. Amsterdam. Netherlands (Oral Presentation).
 9. **F. Jami**, M.J. Wingfield, G. W. Hudler, B. Slippers. 2015. The Botryosphaeriaceae associated with *Ribes* spp. in New York, USA. Proceedings of the 49th Southern African Society for Plant Pathology (SASPP) congress, South Africa (Poster Presentation).

10. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2013. Botryosphaeriaceae: A case study with four unrelated native South African hosts. 10th International Congress of Plant Pathology (ICPP), Beijing, China (Poster Presentation).
11. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2013. Diversity and distribution of latent pathogenic Botryosphaeriaceae on native *Acacia* in South Africa. 10th International Congress of Plant Pathology (ICPP), Beijing, China (Poster Presentation).
12. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2013. First comprehensive survey of Botryosphaeriaceae associated with *Acacia karroo* across ecologically diverse regions of South Africa. Proceedings of the 48th Southern African Society for Plant Pathology (SASPP) congress, South Africa (Oral Presentation).
13. **M. Zlatkovid**, M.J. Wingfield, **F. Jami**, N. Keča, J. Lazarevid, B. Slippers. 2013. Diversity of Botryosphaeriaceae associated with the die-back of ornamental trees in Serbia and Montenegro. Proceedings of the 48th Southern African Society for Plant Pathology (SASPP) congress, South Africa (Poster Presentation).
14. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2011. Botryosphaeriaceae associated with *Acacia karroo* in South Africa. Proceedings of the 47th Southern African Society for Plant Pathology (SASPP) congress, South Africa (Oral Presentation).
15. **F. Jami**, B. Slippers, M.J. Wingfield, M. Gryzenhout. 2011. Botryosphaeriaceae on *Acacia karroo* in South Africa. Poster presented at the 2011 IUFRO Forest Protection Joint Meeting, Colonia Del Sacramento, Uruguay, 8-11 November (Poster Presentation).
16. **F. Jami**, S. E. Sadeghi, j. Tarasi, B. Ali. 2006. Detection of *Xanthomonas populi* on canker of different poplar clones in some provinces of Iran. Proceedings of the 17th Iranian Plant Protection congress. University of Tehran. Karaj. Iran (Poster Presentation).
17. **F. Jami**, S. E. Sadeghi, S.R. Tabai Aghdai, M.H. Asareh, F. Fazaeli. 2006. Evaluation of powdery mildew (*Sphaeroteca pannosa*). Proceedings of the 17th Iranian Plant Protection congress. University of Tehran. Karaj. Iran (Poster Presentation).
18. **Salari, M.R.** Arefi Pour, **F. Jami**, M. Zahedi, A. Mehrabi, S. zeinali. 2006. First report of *Ceratocystis fimbriata* f.sp. *planate* causal agent of canker stain of sycamore trees in Iran. Proceedings of the 17th Iranian Plant Protection congress. University of Tehran. Karaj. Iran.

19. S.E. Sadeghi, H. Askary, J. Tarasi, N. A. Rajabi Mazhar, F. Haghighian, M. Salehi, S. Moharramipour, Z. Rafiee Karahroudi, M. Babmorad, M. Sadr, M. Pahlavan Yali, A. Modir Rahmati, H. Ostovan, M. Shojaee, B. Ali, S. Zeinali and **F. Jami**. 2006. Resistance and susceptibility of exotic and native poplar species and clones to some poplar pests in Iran. Proceedings of the 4th International Poplar Symposium, Nanjing, China.
20. **F. Jami**, M. Niknejad, S.A. Elahinia, G. Khodakaramian. 2004. Study of bacterial disease on stone fruit trees in Guilan Province. Proceeding of the 16th Iranian Plant Protection congress. University of Tabriz. Tabriz. Iran (Oral Presentation).
21. **F. Jami**, M. Niknejad, G. Khodakaramian A. Elahinia. 2004. Plasmid profiles of some stone fruit pathogenic *Pseudomonas* and *Xanthomonas* strains and isolation of *X. arboricola* pv. *pruni* from Guilan Province. Proceeding of the 16th Iranian Plant Protection congress. University of Tabriz. Tabriz. Iran (Poster Presentation).
22. S.E. Sadeghi, H. Askari, A. Modirrahmati, H. Yarmand, M. Salehi, N. Rajabi-Mazhar, S. Moharamipoor, F. Haghighian, J. Tarasi, M. Babmorad, S. Zeinali, A. Mehrabi, D. Shamohamadi, **F. Jami** and B. Ali. 2004. Resistance and susceptibility of poplar species and clones to some important pests in Iran. Proceedings of biotic damage in forests IUFRO WP 7.03.10 Symposium, 12-16 Sep. 2004, Matraford, Hungary.

Manuscripts in preparation

1. **F. Jami**, D. Migliorini, T.I. Burgess, T. Paap, M.J. Wingfield. Correlating of Botryosphaeriaceae between plantation and natural habitat of Proteaceae.

Reviewer papers for Journals

Australasian Plant Pathology, European Journal of Plant Pathology, Forest Pathology, Fungal Ecology, Journal of Phytopathology, Phytopathologia Mediterranea, Plant Disease, Plant Pathology, South African Journal of Science.

Examining thesis/dissertation

Two MSc. dissertations.

Research Grant awards

2021. FBIP-NRF. Research Grand proposal R214 000.

2018-2019. NRF incentive grant, R 50,000.

2017. GRI grant, Genomic Research Institute, University of Pretoria. South Africa, R60 000.

2016-2018. Research development Programme, University of Pretoria. South Africa, R150 000.

2015. The Studienstiftung Mykologische Systematik und Ökologie. Germany, €3000.

Travel Grant awards

2018. Faculty travel grant, University of Pretoria R28 000.

2017. ICPP 2018 grant \$500.

2016. Faculty travel grant, University of Pretoria R27 000.

Teaching Experiences

- Undergraduate Fungal Biology course. Department of Microbiology. University of Pretoria. 2017.
- Undergraduate Microbiology laboratory course. Department of Microbiology. University of Pretoria. 2010-2013.
- Undergraduate Plant pathology laboratory course. Department of Microbiology. University of Pretoria. 2013.
- Post graduate Technical Mycology course. Department of Microbiology. University of Pretoria. 2017.
- Post graduate Seminar course. Department of Microbiology. University of Pretoria. 2016-2018.
- Post graduate Trends course. Department of Microbiology. University of Pretoria. 2016-2018.

Supervision or co-supervision of post graduate students

- Marthin Tarigan. PhD, University of Pretoria, 2019-Present (Primary supervisor).
- Omar Purba. MSc., University of Pretoria. 2019-Present (Primary supervisor).
- Amohelang seheri. PhD. North West University. 2021- Present (Co-supervisor).
- Sarah Hogenbirk-Wynberger. Hons. University of Pretoria. 2018 (Primary supervisor).

- Angelique Jacobson. Hons. University of Pretoria. 2017 (Primary supervisor).
- Francois Viljoen.mHons. University of Pretoria. 2017 (Primary supervisor).
- Lerato Maubane. MSc. University of Pretoria. 2011-2015 (Co-supervisor).

Workshop Teaching Experiences

Assisting Prof. Treena Burgess for running Botryosphaerales workshop. University of Southern Queensland, Toowoomba, Australia. 2017.

Postgraduate Research Project Supervisor

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1. Marthin Tarigan, PhD., Emerging pathogens affecting *Eucalyptus* and *Acacia* plantations in Indonesia. University of Pretoria. South Africa. 2019-2022.
 2. Omar Pubra, MSc., Abiotic Factor Affecting Eucalyptus Little Leaf Syndrome (ELLS). University of Pretoria. South Africa. 2019-2021.
 3. Sarah Hogenbirk-Wynberger, Hons, Botryosphaerales associating with die-back on *Searsia lancea*. University of Pretoria. South Africa. 2018.
 4. Francois Viljoen, Hons, Identification of *Chrysosporthe* from *Eucalyptus* tree. University of Pretoria. South Africa. 2017.
 5. Angelique Jacobson, Hons, Identification of *Cytospora* from native on non-native trees. University of Pretoria. South Africa. 2017.
 6. Lerato Maubane, MSc, Pine needle fungal endophytes including species of *Lophodermium*. University of Pretoria. South Africa. 2011-2015.

Committee Member

2015-2021: Tree Protection Cooperative Programme (TPCP) management committee member. 2017: Tuks Young Research Leadership Programme (TYRLP) member.

Selected Volunteer & Outreach Experiences

Plant Disease Counselling. Pretoria, South Africa. 2011- Present.

Professional Memberships

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- Southern African Society of Plant Pathology (SASPP), Member
 - American Plant Pathology Society (APS), Member

Teamwork and collaboration with others

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- Research teams of the Tree Protection Co-operative Programme and Centre of Excellence

in Tree Health Biotechnology, in collaboration with the South African forestry industry.

- Assisting to host international visitors in FABI, University of Pretoria (2010-2021):
 1. Prof Georg Hudler, Cornell University, USA. 2012.
 2. Dr. Milica Zlatković, University of Novi Sad, Serbia. 2013.
 3. Drs Alistair McTaggart and Louise Shuey. Australia. 2014.
 4. Drs Alejandra Lopez and Margarita Hernandez, Westerdijk Fungal Biodiversity Institute, Netherlands. 2015.
 5. Dr. Yasmina Felix. Westerdijk Fungal Biodiversity Institute. Netherlands. 2016.
 6. Prof. Kamal Gandhi, University of Georgia, USA. 2017.

Visits to local and overseas universities or research institutes

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- Westerdijk Fungal Biodiversity Institute. Netherlands. 2015 (six months), 2016 (three months).
 - University of Southern Queensland, Toowoomba, Australia. 2017.
 - Royal Golden Eagle (RGE), R & D center, Indonesia. 2018 (two months), 2019 (four months).

Management and administrative duties

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1. FABI Postdoctoral representative. 2019.
 2. Coordinating the RGE-FABI tree health programme. 2018-March 2021.
 3. Greenhouses manager, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria. 2013-March 2021.
 4. Students paid and un-paid duty coordinator. Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria. 2013-2020.

Involvement with other universities/scientific institutions

Westerdijk Fungal Biodiversity Institute. Netherlands. 2015-2018.

North West University. Potchefstroom, South Africa. 2021-2024.

Involvement with industries

Industries:

- Royal Golden Eagle (RGE), Indonesia (2018- Present).
- SAPPI, YORK, MONDI, South Africa (2008- 2021).

Awards and scientific recognition

- South African National Research Foundation (NRF) rating: C2. 2019.
- Forestry and Agricultural Biotechnology Institute (FABI) recognition prize. 2010.