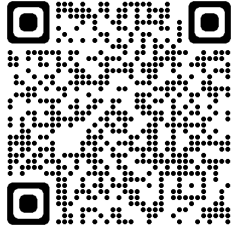


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<https://scholar.google.co.za/citations?user=xvkU-3YAAAAAJ&hl=en>

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UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

FABI

RESEARCH FOCUS

I am a new generation mycologist on the taxonomy of *Aspergillus*, *Penicillium*, *Talaromyces* and other moulds. My research focus includes their biodiversity, ecology, phylogenetics, nomenclature and identification with a particular interest in taxonomically robust ecological and biodiversity studies. My major contribution to the international mycological community has been the accepted species lists for *Aspergillus*, *Penicillium* and *Talaromyces* that was published in Samson et al (2014), Visagie et al (2014) and Yilmaz et al (2014). We updated and expanded these lists to *Eurotiales* in Houbraken et al. (2020). Before these papers, describing new species in these genera was very complicated because of unavailable reference data. These papers had a big international impact and have been cited a combined 3011 times (on 2024/01/15).

From my own perspective, the accepted species lists allowed me to easily describe the new species I came across. By the end of 2020, I had introduced 49 *Aspergillus*, 89 *Penicillium* & 19 *Talaromyces* species. Many of these were originally isolated from South Africa and there are many more local species waiting to be discovered, making local knowledge and diversity, internationally relevant and important.

My research has now shifted to exploit the strong and modern taxonomy we created in these genera. To do this, we have several grain-related projects that are focused on characterising fungal communities related to these important crops and developing methods to monitor communities more efficiently and rapidly detect species of interest. Most notably, I was recently awarded a prestigious FLAIR fellowship. This project will potentially change the way researchers approach Next Generation Sequencing (NGS) tools to study fungal communities at a species level, something not currently possible. The large gap between described and undescribed species must be narrowed and NGS methods have a crucial role to play to start narrowing this gap. However, these methods must be used with care and preferably with a strong taxonomic backbone. My vision is to use the modern taxonomy that we created for *Eurotiales* and create a model for how we can explore diversity in a responsible manner using modern tools.

Within the FLAIR project, we will also sequence the genomes of especially mycotoxigenic species that will lead to a better understanding of their mycotoxin producing capabilities. During our projects, we are expanding the already large culture collection housed at FABI to now include reference strains of grain associated fungi to be used for a variety of other research projects. One project is to explore fungi we isolate for the production of novel useful compounds. For this venture, we successfully applied for a Marie Curie grant (H2020-MSCA-RISE-2020) from the European Union in collaboration with 11 collaborators across the world.

I've thus dedicated my research on improving the taxonomy, nomenclature, phylogeny and identification of *Aspergillus*, *Penicillium* and *Talaromyces*, and making this associated data freely available. I was part of the team to open these genera to the world. It is now possible for essentially anybody who can sequence to make relatively accurate species identifications and, in many cases, describe new species.

CAREER HIGHLIGHTS

- **Visagie CM**, Frisvad JC, Houbraken J, Visagie A, Samson RA, Jacobs K. 2021. A re-evaluation of *Penicillium* section *Canescentia*, including the description of five new species. *Persoonia* 46:163–187. <https://doi.org/10.3767/persoonia.2021.46.06>
- **Visagie CM**, Houbraken J. 2020. Updating the taxonomy of *Aspergillus* in South Africa. *Studies in Mycology* 95:253–292. <https://doi.org/10.1016/j.simyco.2020.02.003>
- Schoch CL, Robbertse B, Robert V, Vu D, Cardinali G, Irinyi L, Meyer W, Nilsson RH, Hughes K, Miller AN, ...**Visagie CM**, et al. (2014). Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi. *Database* 2014: bau061–bau061 <https://doi.org/10.1093/database/bau061>.
- Houbraken J, Kocsube S, **Visagie CM**, Yilmaz N, Wang X-C, Meijer M, Kraak B, Hubka V, Samson RA, Frisvad JC. 2020. Classification of *Aspergillus*, *Penicillium*, *Talaromyces* and related genera (*Eurotiales*): an overview of families, genera, subgenera, sections, series and species. *Studies in Mycology* 95:5–169. <https://doi.org/10.1016/j.simyco.2020.05.002>
- **Visagie CM**, Yilmaz N, Kocsubé S, Frisvad JC, Hubka V, Samson RA, Houbraken J (2024). A review of recently introduced *Aspergillus*, *Penicillium*, *Talaromyces* and other *Eurotiales* species. *Studies in Mycology* 107: 1–66. <https://doi.org/10.3114/sim.2024.107.01>.

WORK EXPERIENCE

Current Positions

- Associate Professor: FABI, University of Pretoria, South Africa 2019–current
- Co-director of the National Grain Research Programme 2021–current

Previous Positions

- Senior Researcher: Mycology, Plant Health and Protection, Agricultural Research Council South Africa 2017–2019
- Extraordinary lecturer: FABI, University of Pretoria, South Africa 2018–2019
- Extraordinary senior lecturer: Stellenbosch University, South Africa 2018–2021
- Post-Doctoral Fellow (with Prof Keith A Seifert): Agriculture and Agri-Food Canada & University of Ottawa, Canada 2014–2017
- Post-Doctoral Researcher (Prof. Dr. Dr. hc Rob A. Samson): Westerdijk Fungal Biodiversity Institute, the Netherlands 2012–2014

Editorial positions

- Editorial board member for *Studies in Mycology* 2020–current
- Editorial board member for *Mycological Progress* 2020–current
- Associate editor for *FUSE: Fungal Systematics and Evolution* 2019–current

Education

- Ph.D. (Microbiology), Stellenbosch University, South Africa, “Polyphasic taxonomy of *Penicillium* and *Talaromyces* spp. isolated from the diverse Fynbos biome” 2009–2012
- M.Sc. (Microbiology) (cum laude), Stellenbosch University, South Africa, “Biodiversity in the genus *Penicillium* from coastal Fynbos soil” 2007–2008
- B.Sc.Hons. (Microbiology), Stellenbosch University, South Africa 2006
- B.Sc. (Molecular and Cellular Biology), (majors: Microbiology, Biochemistry, Genetics) Stellenbosch University, South Africa 2003–2005

SCHOLARSHIPS

- National Research Foundation (NRF) South African Biosystematics Initiative (SABI) scholarship 2009–2012
- Stellenbosch University Merit bursary 2003, 2007, 2009–2011
- Stellenbosch University Murray Bursary 2008
- NRF Free-standing Bursary 2007–2008
- The Ernst and Ethel Eriksen Trust study grant 2007–2008

AWARDS

- **National Research Foundation Prestigious Award (P-rating)**, rating obtained in 2019.
- **Michele C. Heath award**, for best Post-Doctoral presentation, awarded at the 31st Great Lakes Mycology Meeting, held at the Queens University Biological Station, Chaffey's Lock, Canada. 2–3 May 2015.
- **John and Petakin Mildenhall Award**, awarded at the 47th congress of the South African Society of Plant Pathology, Kruger National Park, for a PhD student making considerable contributions to the field of Plant Pathology in South Africa, 23–26 January 2011.
- **IMC9: The Biology of Fungi Travel Award**, awarded by the British Mycological Society at the 9th International Mycological Congress, Edinburgh Scotland, 1–6 August 2010.
- **South African Biosystematics Initiative Student International Travel Award**, for attendance at the 9th International Mycological Congress, Edinburgh Scotland, from 1–6 August 2010, as well as research visits to CBS-KNAW, the Netherlands, and ECORC (AAFC), Canada.
- **Bio2Biz South Africa 2009 & South African Society for Microbiology 09 Travel Award**, awarded at the congress of the South African Society for Microbiology, Durban, South Africa. 20–23 September 2009.
- **Darwin Initiative Award for the Conservation of Biodiversity**, for best presentation on the conservation of fungi at the African Mycological Association session, 46th congress of the SASPP, Gordon's Bay, South Africa. 25–28 January 2009.
- **Young Plant Pathologist Award**, 46th congress of the SASPP, Gordon's Bay, South Africa. 25–28 January 2009.
- **Inqaba Biotech/CLC Bio Microbiology Poster Award**, 2nd prize awarded at the SASM BIO'08 Conference, Grahamstown, South Africa. 21–25 January 2008.

MEDIA AWARDS

- International Institute for Species Exploration (IISE) - SUNY-ESF Top 10 new species 2014 (<http://www.esf.edu/top10/2014/>), *Penicillium vanoranjei* Visagie, Houbraken & Samson was chosen as one of the top 10 species described in 2013 by the International Institute for Species Exploration (IISE). The annual award is meant to increase public awareness of biodiversity in the world.

MEMBERSHIPS

- International Commission on the Taxonomy of Fungi 2022–present
- International Commission of *Penicillium* and *Aspergillus* 2022–present
- Mycological Society of America 2020–present
- South African Society for Systematic Biology 2017–present
- International Mycological Association 2010–present
- African Mycological Association (committee between 2009 and 2012) 2009–present
- South African Society of Plant Pathology 2008–2012, 2020–present
- South African Society for Microbiology 2008–2012

SUPERVISION

Completed – Post Doctoral

- Dr Godfrey Kgatle, Post Doctoral researcher, *Pleosporales* diversity with a focus on *Alternaria* associated with grain in South Africa, University of Pretoria 2022
- Dr David Nsibo, Post Doctoral researcher, Diversity and race typing of *Exserohilum turcicum*, causal agent of Northern Corn Leaf Blight, University of Pretoria 2021

Completed – MSc

- Mr Aiden Visagie, MSc, Isolation and identification of *Penicillium* species with potential phosphate solubilization activity from agricultural environments, Stellenbosch University (supervisor) 2022
- Ms Jenna-Lee Price, MSc with distinction, Diversity of mycotoxigenic fungi associated with maize in the Eastern Cape, University of Pretoria (supervisor) 2023
- Ms Nicole van Vuuren, MSc with distinction, Fungal biodiversity in the Fairy circles from Namibian dessert, University of Pretoria (co-supervisor) 2023
- Ms Nombulelo Qikani, MSc, Fungal and Oomycete diversity associated with soil from maize fields in South Africa, University of Pretoria (supervisor) 2023
- Ms Shivan Bezuidenhout, MSc with distinction, Fungal diversity associated with South African produced soybean, including mycotoxin screening, University of Pretoria (supervisor) 2021–current

Completed – Hons BSc

- Ms Hanneke van Loggerenberg, Hons BSc, The diversity of *Penicillium* from soils in the Buffelskloof Nature Reserve 2023
- Ms Rorisang Tomotomo, BSc Hons, Exploring *Penicillium* diversity in soil from the Southern Cape of South Africa, University of Pretoria (supervisor) 2022
- Mr Anthony Hobden, BSc Hons, The fungal diversity associated with South Africa cattle feed, University of Pretoria (supervisor) 2021
- Ms Marizanne Jones, BSc Hons, Fungal diversity and their antibacterial activity found in the soil of the Namib desert fairy circles, University of Pretoria, (co-supervisor) 2020
- Ms Shivan Bezuidenhout, BSc Hons, Fungi for Future: Citizen Science project, University of Pretoria, (supervisor) 2020
- Ms Jenna-Lee Price, BSc Hons, Diversity of mycotoxigenic fungi associated with sunflower and soybean seeds, University of Pretoria (co-supervisor) 2019
- Ms Andrea Fennell, BSc Hons, Investigation, identification and characterisation of *Penicillium* spp. isolated from blueberry-associated fynbos soil, Stellenbosch University (co-supervisor) 2019

Completed – Undergraduate

- Ms Zoe Humphries, undergraduate research assistant, ORDC-AAFC 2016
- Ms Olga Koppel, undergraduate research assistant, ORDC-AAFC 2015

Current – PhD

- Ms Jenna-Lee Price, PhD, Exploring the facial eczema problem in dairy cattle in the Eastern Cape of, South Africa, with a focus on the fungus *Pseudophthomyces chartarum*, University of Pretoria (co-supervisor) 2023–current
- Ms Nicole van Vuuren, PhD, The diversity of *Penicillium* across South Africa, University of Pretoria (supervisor) 2023–current
- Mr Nkosinathi Sthembiso Ndaba, PhD, Seed health of grey leaf spot diseased maize, University of Pretoria (co-supervisor) 2022–current
- Ms Carlynn Jacobs, PhD, The effect of abiotic factors on the production of mycotoxins in maize, University of Pretoria (supervisor) 2021–current
- Ms Alandie Nieuwoudt, PhD, Towards a better understanding of *Exserohilum turcicum*, University of Pretoria (supervisor) 2021–current
- Ms Samkelisiwe Thango, PhD, Precision diagnostics of maize foliar disease development by integration of genomic, phenotypic, and environmental data using machine learning analysis approaches, University of Pretoria (co-supervisor) 2021–current
- Ms Claudette Dewing, PhD, A novel approach to discover fungal biodiversity (supervisor) 2020–current

Current – MSc

- Mr Taygen Fuchs, MSc, *Sporothrix* associated with gold mines in South Africa, University of Pretoria (co-supervisor) 2023–current
- Ms Kiara Munsamy, MSc, *Fusarium* ear rots affecting maize production in the Eastern Cape, University of Pretoria (co-supervisor) 2023–current
- Ms Chanel Thomas, MSc, The taxonomy and population genetics of *Sclerotinia*, University of Pretoria (co-supervisor) 2022–current
- Ms Alice Mthembu, MSc, Identification of plant pathogenic fungi associated with Eastern Cape produced maize, University of Pretoria (supervisor) 2021–current
- Ms Thando Bhiya, MSc, Quantitative detection of fungal pathogens causing leaf blight of prominent vegetables in South Africa, UNISA (co-supervisor) 2018–current

TEACHING EXPERIENCE

- Lecture and practical session for BSc Hons Microbiology MBY 755 ('Working with Fungi': University of Pretoria) 2020–current
- Lectures for Microbiology MBY 161 (University of Pretoria) 2019–current
- Instructor at the Introduction to Food-borne and Indoor Fungi course, University of Ottawa, Canada, and CBS-KNAW, Utrecht, the Netherlands 2013–2015
- Tutor lectures for B.Sc. Microbiology 2nd year students, Stellenbosch University, South Africa 2009–2011

- Lectures and practicals on the identification of fungi for B.Sc. Hons. students, Stellenbosch University, South Africa 2007–2011
- Demonstrator for B.Sc. Microbiology 2nd year student practicals, Stellenbosch University, South Africa 2007–2011
- Guest Lecture on the forms and shapes of fungi for jewelry design course in Visual Arts department, Stellenbosch University, South Africa 2007
- Guest Lecture on the diversity of *Aspergillus* and *Penicillium* to 3rd year Microbial Ecology students, Stellenbosch University, South Africa 2018

REVIEWER

- Active reviewer of manuscripts for international journals such as the Canadian journal of Botany, Fungal Ecology, International Journal of Systematics and Evolutionary Microbiology, IMA Fungus, Medical Mycology, Mycologia, Mycology, Mycokeys, Mycological Progress, Mycological Research, Mycoscience, Nova Hedwigia, Persoonia, Plant Pathology, PLOS ONE, Studies in Mycology, Sydowia and Toxins.

SUCCESSFUL GRANT APPLICATIONS

- NRF-small FBIP (FBIS22101061886), Re-identification of mycotoxigenic fungi accessioned in the MRC culture collection, 2 years (2024), R250 000.
- Milk SA, Exploring the facial eczema problem in dairy cattle in the Eastern Cape of, South Africa, with a focus on the fungus *Pseudopithomyces chartarum*, 4 years (2023–2026), R 4 200 000.
- Mycotoxin Trust, Monitoring *Fusarium* species and their associated mycotoxins affecting maize production in the Eastern Cape, 3 years (2023–2025), R850 000.
- Maize Trust, Sentinel plots as an anchor for biosecurity monitoring and research, 3 years (2024–2026), R1 468 320.
- Maize Trust, Seed health of grey leaf spot diseased maize, 3 years (2023–2025), R1 229 462.
- NRF-CPRR, A novel approach to explore *Penicillium* diversity across South Africa, 3 years (2023–2025), R375 000
- European Commission – H2020-MSCA-RISE-2020 (grant nr 101008129), Joining forces to exploit the mycobiota of Asia, Africa and Europe for beneficial metabolites and potential biocontrol agents, using -OMICS techniques, 4 years (2021), ±R5 million
- Maize Trust, Survey of fungal pathogens affecting maize production in the Eastern Cape, 3 years (2021), R1 180 210
- FLAIR collaboration grant: The Royal Society & the African Academy of Sciences funded by the Global Challenges Research Fund: The effect of interacting abiotic conditions on mycotoxin production by fungal communities, 2 years, ±R120 000.
- FLAIR fellowship: The Royal Society & the African Academy of Sciences funded by the Global Challenges Research Fund, Ensuring human food and animal feed safety: Characterizing sources of mycotoxin contamination, 2 years (2020), £300 000.
- NRF-small FBIP (grant id 129117), Characterizing fungal diversity associated with maize produced in the Eastern Cape, 1 year (2020), R188 000
- UP-RDP grant, Novel ways to explore biodiversity, 1 year (2020), R50 000.
- Maize Trust, Population genetics and physiological race diversity of *Exserohilum turcicum*, 2 years (2020), R300 000.
- NRF-Large FBIP (Collaborator), Defining functional microbiomes of major crops in South Africa for improved productivity, 3 years (2019), R5 962 273.
- NRF incentive (grant nr 118924), NRF grant for 2019-2024: incentive funding for rated researchers (IPPR), 6 years (2019), R300 000.
- NRF award (grant nr 120352), NRF special recognition awards (P rated researcher), 1 year (2019), R60 000.
- NRF-small FBIP (grant id 115955), Discovering *Alternaria* Diversity in South Africa, 1 year (2018), R199 900.
- NRF-small FBIP (grant id 110441), Updating the taxonomy of *Aspergillus* in South Africa, 1 year (2017), R200 000.
- NRF-small FBIP (grant id 110442), Updating the taxonomy of *Penicillium* in South Africa, 1 year (2017), R199 300.

POPULAR ARTICLES, MEDIA AND BLOG POSTS

- SA Grain – 9 May 2023: Sentinel plots significant for crop biosecurity <https://sagrainmag.co.za/2023/05/09/sentinel-plots-significant-for-crop-biosecurity/>.
- FBIP newsletter – 24 August 2021: Light shed on the dark territory of fungal diversity with 7 new species to science <https://fbip.co.za/news/light-shed-on-dark-territory-of-fungal-diversity/>.
- SA Grain – 3 June 2021: Grain Research Programme: plans and progress <https://sagrainmag.co.za/2021/06/03/grain-research-programme-plans-and-progress>.
- Farmers Weekly – 13 November 2020: New technology to detect mycotoxins in animal feed.

- Landbou Weekblad – 29 October 2020: Nuwe vennootskap gesluit om graanavorsing te versterk.
- RSG monitor – 16 Sept 2020: Fungi in indoor environments.
- Landbou Weekblad – 6 Augustus 2020: Nuwe swam na Cuddles genoem.
- PretoriaFM “Ek wil weet” – 19 November 2019 <https://www.pretoriafm.co.za/ek-wil-weet-pienaar-en-die-wetenskaplikes-19-november-2019/>.
- RSG Landbou – 27 April 2018 <http://www.rsg.co.za/Program-Potgooi/321/RSG-Landbou>.
- MicrobeNET – September 2014: <http://microbe.net/2014/11/12/studies-in-mycology-78-species-diversity-in-aspergillus-penicillium-and-talaromyces/>.

BOOK OR BOOK CHAPTERS

- Studies in Mycology vol. 78: Species diversity in Aspergillus, Penicillium and Talaromyces. Samson RA, **Visagie CM**, Houbraeken J (eds), Published by Elsevier. 2014

PUBLICATIONS AND PAPERS

Peer-reviewed Papers:

1. Manuscript under review: **Visagie CM**, Meyer H, Yilmaz N. Exploring the fungal diversity and mycotoxins in South African pre-stored maize. *Fungal Biology*.
2. Manuscript accepted: Price J, Meyer H, Yilmaz N, **Visagie CM**. Fungi and their mycotoxins associated with ear rots from maize farms in the Eastern Cape of South Africa. *Toxins*.
3. **Visagie CM**, Meijer M, Kraak B, Groenewald M, Houbraeken J, Theelen B, Vorst Y, Boekhout T (2024). *Blastobotrys nigripullensis*, a new yeast species isolated from a fungal outbreak on an ancient Roman shipwreck in the Netherlands. *Antonie van Leeuwenhoek* 117: 22, <https://doi.org/10.1007/s10482-023-01898-x>.
4. **Visagie CM**, Yilmaz N, Kocsubé S, Frisvad JC, Hubka V, Samson RA, Houbraeken J (2024). A review of recently introduced Aspergillus, Penicillium, Talaromyces and other Eurotiales species. *Studies in Mycology* 107: 1–66. <https://doi.org/10.3114/sim.2024.107.01>.
5. **Visagie CM**, Magistà D, Ferrara M, Balocchi F, et al. (2023). IMA genome-F18: The re-identification of Penicillium genomes available in NCBI and draft genomes for Penicillium species from dry cured meat, *Penicillium bifforme*, *P. brevicompactum*, *P. solitum*, and *P. cvjetkovicii*, *Pewenomyces kutranfy*, *Pew. lalenivora*, *Pew. tapulicola*, *Pew. kalosus*, *Teratosphaeria carnegiei*, and *Trichoderma atroviride* SC1. *IMA fungus* 14:21. <https://doi.org/10.1186/s43008-023-00121-w>
6. Balocchi F, Barnes I, Wingfield MJ, Ahumada R, **Visagie CM** (2023). New *Resinogalea* species from *Araucaria araucana* resin in Chile and reclassification of the genus in the *Cryptocaliciomycetidae*. *IMA Fungus* 14: 16 <https://doi.org/10.1186/s43008-023-00122-9>.
7. Crous PW, Osieck ER, Shivas RG, Tan YP, Bishop-Hurley SL, Esteve-Raventós F, Larsson E, Luangsa-ard JJ, Pancorbo F, Balashov S, et al. (2023). Fungal Planet description sheets: 1478–1549. *Persoonia* 50: 158–310 <https://doi.org/10.3767/persoonia.2023.50.05>.
8. **Visagie CM**, Boekhout T, Theelen B, Dijksterhuis J, Yilmaz N, Seifert KA (2023). Da Vinci's yeast: *Blastobotrys davincii* f.a., sp. nov. *Yeast* 40: 7-31 [10.1002/yea.3816](https://doi.org/10.1002/yea.3816).
9. **Visagie CM**, Yilmaz N (2023). Along the footpath of Penicillium discovery: Six new species from the Woodville Big Tree Forest Trail. *Mycologia* 115: 87–106 [10.1080/00275514.2022.2135915](https://doi.org/10.1080/00275514.2022.2135915).
10. Ashtekar N, Rajeshkumar KC, Yilmaz N, **Visagie CM** (2022). A new Penicillium section *Citrina* species and series from India. *Mycological Progress* 21: 42 <https://doi.org/10.1007/s11557-022-01802-3>.
11. Bian C, Kusaya Y, Sklenář F, D'Hooge E, Yaguchi T, Ban S, **Visagie CM**, Houbraeken J, Takahashi H, Hubka V (2022). Reducing the number of accepted species in *Aspergillus* series *Nigri*. *Studies in Mycology* 102: 95–132 <https://doi.org/10.3114/sim.2022.102.03>.
12. Glässnerová K, Sklenář F, Jurjević Ž, Houbraeken J, Yaguchi T, **Visagie CM**, Gené J, Siqueira JPZ, Kubátová A, Kolařík M, Hubka V (2022). A monograph of *Aspergillus* section *Candidi*. *Studies in Mycology* 102: 1–51, <https://doi.org/10.3114/sim.2022.102.01>.
13. Sklenář F, Glässnerová K, Jurjević Ž, Houbraeken J, Samson RA, **Visagie CM**, Yilmaz N, Gené J, Cano J, Chen AJ, et al. (2022). Taxonomy of *Aspergillus* series *Versicolores*: species reduction and lessons learned about intraspecific variability. *Studies in Mycology* 102: 53–93 [10.3114/sim.2022.102.02](https://doi.org/10.3114/sim.2022.102.02).
14. Tan YP, Bishop-Hurley SL, Shivas RG, Cowan DA, Maggs-Kölling G, Maharachchikumbura SSN, Pinruan U, Brangrove KL, De la Peña-Lastra S, Larsson E, et al. (2022). Fungal Planet description sheets: 1436–1477. *Persoonia* 49: 261– 350 [10.3767/persoonia.2022.49.08](https://doi.org/10.3767/persoonia.2022.49.08).
15. Crous PW, Cowan DA, Maggs-Kölling G, Yilmaz N, Thangavel R, Wingfield MJ, Noordeloos ME, Dima B, Brandrud TE, Jansen GM, et al. (2021). Fungal Planet description sheets: 1182-1283. *Persoonia* 46: 313–528 [10.3767/persoonia.2021.46.11](https://doi.org/10.3767/persoonia.2021.46.11).

16. Crous PW, Lombard L, Sandoval-Denis M, Seifert KA, Schroers HJ, Chaverri P, Gené J, Guarro J, Hirooka Y, Bensch K, et al. (2021). *Fusarium*: more than a node or a foot-shaped basal cell. *Studies in Mycology* 98 <https://doi.org/10.1016/j.simyco.2021.100116>.
17. Crous PW, Osieck ER, Jurjević Ž, Boers J, van Iperen AL, Starink-Willemse M, Dima B, Balashov S, Bulgakov TS, Johnston PR, et al. (2021). Fungal Planet description sheets: 1284–1382. *Persoonia* 47: 178–374 [10.3767/persoonia.2021.47.06](https://doi.org/10.3767/persoonia.2021.47.06).
18. Houbraken J, **Visagie CM**, Frisvad JC (2021). Recommendations To Prevent Taxonomic Misidentification of Genome-Sequenced Fungal Strains. *Microbiology Resource Announcements* 10: e0107420 [10.1128/MRA.01074-20](https://doi.org/10.1128/MRA.01074-20).
19. Pyrrri I, **Visagie CM**, Soccio P, Houbraken J (2021). Re-evaluation of the taxonomy of *Talaromyces minioluteus*. *Journal of Fungi* 7: 993 <https://doi.org/10.3390/jof7110993>.
20. Sun B-D, **Visagie CM**, Chen AJ, Houbraken J (2021). A taxonomic review of *Penicillium* section *Charlesia*. *Mycological Progress* 20: 1383–1397 <https://doi.org/10.1007/s11557-021-01735-3>.
21. **Visagie CM**, Frisvad JC, Houbraken J, Visagie A, Samson RA, Jacobs K (2021). A re-evaluation of *Penicillium* section *Canescentia*, including the description of five new species. *Persoonia* 46: 163–187 <https://doi.org/10.3767/persoonia.2021.46.06>.
22. **Visagie CM**, Goodwell M, Nkwe DO (2021). *Aspergillus* diversity from the Gcwihaba Cave in Botswana and description of one new species. *Fungal Systematics and Evolution* 8: 81–89 <https://doi.org/10.3114/fuse.2021.08.07>.
23. Yilmaz N, Sandoval-Denis M, Lombard L, **Visagie CM**, Wingfield BD, Crous PW (2021). Redefining species limits in the *Fusarium fujikuroi* species complex. *Persoonia* 46: 129–162 <https://doi.org/10.3767/persoonia.2021.46.05>.
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25. Crous PW, Wingfield MJ, Schumacher RK, Akulov A, Bulgakov TS, Carnegie AJ, Jurjevic Z, Decock C, Denman S, Lombard L, et al. (2020). New and Interesting Fungi. 3. *Fungal Systematics and Evolution* 6: 157–231 <https://doi.org/10.3114/fuse.2020.06.09>.
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CONFERENCE CONTRIBUTIONS

Keynote presentations:

1. **Visagie CM**, Yilmaz N. Exploring fungal diversity in South Africa, a biodiversity hotspot. DGfM 100th anniversary meeting, Blaubeuren, Germany, 4–7 October 2021.

Invited seminar presentations:

2. Yilmaz N, Meyer H, **Visagie CM**. Mycotoxins in South Africa: old enemies new faces. The 4th CanFunNet (Canadian Fungal Network) Fungal Biology Conference “Fungi from Coast to Coast”. Virtual Meeting, 31 May–2 June 2023.
3. **Visagie CM**. The modern taxonomy of *Aspergillus* and *Penicillium*. Westerdijk Institute Spring Symposium - Fungal Evolution, Amsterdam, the Netherlands, 17–18 April 2023.
4. **Visagie CM**, Yilmaz N. Exploring the diversity of mycotoxigenic fungi in South Africa. British Mycological Society 125th Anniversary Conference on Fungi and the Environment. Cranfield University, Cranfield, UK. 4–7 April 2022.
5. Yilmaz N, **Visagie CM**. Facial Eczema caused by sporidesmin producing strains of *Pseudopithomyces chartarum*: An important yet poorly understood disease of dairy cattle in South Africa. The World Mycotoxin Forum 13th conference. Parma, Italy. 16–18 May 2022.
6. **Visagie CM**, Hirooka Y. Taxonomic annotation of public fungal reference sequences. Mycological Society of Japan International symposium on UNITE. 28 August 2021.
7. **Visagie CM**. Exploring *Penicillium* species diversity from a biodiversity hotspot. 16th International Union of Microbiological Societies Congresses, Daejeon, South Korea (and virtual meeting), 12–16 October 2020.
8. **Visagie CM**. Exploring fungal diversity in important crops of South Africa. Keynote lecture for the SAGL Annual General Meeting, 20 November 2019.
9. **Visagie CM**, Seifert KA. Bridging the gap between cultured and uncultured fungi in the built environment. Symposium: Built Environments I – Fungi & Fungal Products in the Built Environment: Investigating our Indoor Companions. Mycological Society of America Annual Meeting, Berkeley, CA, August 2016.

Seminar presentations:

10. **Visagie CM**. Exploring *Penicillium* diversity in South Africa. 16th SASSB 2023 conference, Stellenbosch, South Africa, 5–7 July 2023.
11. Yilmaz N, Meyer H, **Visagie CM**. *Fusarium* species and their mycotoxins in South African maize. Westerdijk Institute Spring Symposium - Fungal Evolution, Amsterdam, the Netherlands, 17–18 April 2023.
12. **Visagie CM**, Yilmaz N. Exploring the diversity of mycotoxigenic fungi in South African food and feed. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
13. Yilmaz N, Meyer H, **Visagie CM**. Exploring fungal diversity and their mycotoxins from stored maize in South Africa. The 3rd ASM Joint MYTOX-SOUTH Symposium 2022, Stellenbosch, South Africa, 4–7 September 2022.
14. Yilmaz N, Dewing C, Davis A, **Visagie CM**. Facial Eczema: An important yet poorly understood disease of dairy cattle in South Africa. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
15. Nsibo DL, Slippers B, **Visagie CM**. Population genetic diversity and structure of *Exserohilum turcicum* from smallholder and emerging commercial maize farms in the Eastern Cape province of South Africa. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.

16. Jacobs CM, Yilmaz N, Wingfield B, Steenkamp E, **Visagie CM**. Identification of genes and gene clusters involved in the biosynthesis of mycotoxins produced by *Fusarium* species associated with maize in South Africa. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
17. Dewing C, Yilmaz N, Steenkamp E, Wingfield BD, **Visagie CM**. Capturing the fungal diversity hidden in Eastern Cape pastures. 56th Wissenschaftliche Tagung der Deutschsprachigen Mykologischen Gesellschaft gemeinsam mit der Österreichischen Gesellschaft für Medizinische Mykologie, Wien, Austria, 12–14 September 2022.
18. Visagie C. Unlocking the potential of a global culture collection for local and regional plant health: HexagonBio and CMW-IA. 33rd Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DSI-NRF Centre of Excellence in Plant Health Biotechnology (CPHB), Hybrid Conference hosted by FABI, South Africa, 10–11 May 2022.
19. Visagie C, Yilmaz N. Reference collections, next generation taxonomy & digital data management tools. 32nd Annual Meeting of the Tree Protection Co-operative Programme (TPCP) and the DSI-NRF Centre of Excellence in Plant Health Biotechnology (CPHB), Virtual Conference hosted by FABI, South Africa, 4–6 May 2021.
20. **Visagie CM**, Yilmaz N. Updating the taxonomy of the genera *Aspergillus*, *Penicillium* and *Talaromyces* in South Africa. Asian Mycology Congress 2019. Mie, Japan, 1–4 October 2019.
21. **Visagie CM**, Yilmaz N. Updating the taxonomy of *Aspergillus*, *Penicillium* and *Talaromyces* in South Africa. Joint Biodiversity Information Management & Foundational Biodiversity Information Programme Forum 2019. Pretoria, South Africa, 20–22 August 2019.
22. Visagie A, Jacobs K, **Visagie CM**. Isolation and identification of *Penicillium* species with potential phosphate solubilization activity from agricultural environments. Joint Biodiversity Information Management & Foundational Biodiversity Information Programme Forum 2019. Pretoria, South Africa, 20–22 August 2019.
23. **Visagie CM**. Exploring species diversity in *Aspergillus* & *Penicillium*. 11th International Mycological Congress, San Juan, Puerto Rico, July 2018.
24. **Visagie CM**. Exploring species diversity in *Aspergillus* & *Penicillium*. South African Society of Microbiology conference, Krugersdorp, January 2018.
25. **Visagie CM**, Seifert KA. The importance of incorporating xerophilic fungi in surveys of indoor environments. 32nd Great Lakes Mycology Meeting, Queens University Biological Station, Chaffey's Lock, Canada, May 2016.
26. **Visagie CM**, Hirooka Y, Tanney JB, Koppel O, Nguyen H, Houbraken J, Meijer M, Yilmaz N, Chen W, Lowe C, Samson RA, Seifert KA. The importance of incorporating xerophily for biological modelling and observations. 4th International Conference on the Microbiology of the Built Environment, Boulder, USA, July 2015.
27. **Visagie CM**, Samson RA, Seifert KA. The Sloan project: Bridging the gap between culture-dependent and – independent detection techniques in *Aspergillus*, *Penicillium* and *Talaromyces*. 31st Great Lakes Mycology Meeting, Queens University Biological Station, Chaffey's Lock, Canada, May 2015.
28. Hirooka Y, Tanney JB, Bilkhu S, Zhang N, Nguyen H, Amend A, **Visagie CM**, Meijer M, Samson RA, Seifert KA. Presentation. A comparison of dilution-to-extinction culturing and pyrosequencing extends our view of the fungal biodiversity of house dust. 10th International Mycological Congress, Bangkok, Thailand, August 2014.
29. Houbraken J, Frisvad JC, **Visagie CM**, Samson RA. New taxonomies of Aspergilli producing aflatoxins and ochratoxins. 10th International Mycological Congress, Bangkok, Thailand, August 2014.
30. Samson RA, **Visagie CM**, Seifert KA. Biodiversity of common food and airborne Fungi. 14th International Union of Microbiological Societies Congresses, Montréal, Canada, July to August 2014.
31. Seifert KA, Mwange K, Whitfield E, **Visagie CM**, Samson RA, Meijer Amend AS, Bruns TD. IM-BOL The Indoor Mycota Barcode of Life. 4th International Barcode of Life Conference, Adelaide, Australia, November to December 2011.
32. **Visagie CM**, Roets F, Seifert KA, Jacobs K. Working towards DNA barcoding for South African species of the genus *Penicillium*. South African Society of Microbiology conference, Cape Town, South Africa, November 2011.
33. **Visagie CM**, Roets F, Seifert KA, Jacobs K. The ecology of *Penicillium* spp. in the Cape Floristic Region. 47th Congress of the South African Society for Plant Pathology, Kruger National Park, South Africa, January 2011.
34. **Visagie CM**, Jacobs K. Biodiversity in the genus *Penicillium* from coastal fynbos soil. 46th Congress of the South African Society for Plant Pathology, Gordon's Bay, South Africa, January 2009.

Poster presentations:

1. Yilmaz N, Collemare J, **Visagie CM**. Facial eczema caused by sporidesmin-producing strains of *Pseudopithomyces chartarum*: An important yet poorly understood disease of dairy cattle in South Africa. The 14th conference of The World Mycotoxin Forum, Antwerp, Belgium, 9–11 October 2023.
2. Nsibo DL, Slippers B, **Visagie CM**. Population genetic diversity and migration patterns of *Exserohilum turcicum* from maize-based cropping systems in South Africa. 12th International Congress of Plant Pathology, Lyon, France, 20–25 August 2023.
3. Price JL, Meyer H, Yilmaz N, **Visagie CM**. Fungi and their mycotoxins associated with maize ear rots from emerging farms in the Eastern Cape, South Africa. The 3rd ASM Joint MYTOX-SOUTH Symposium 2022, Stellenbosch, South Africa, 4–7 September 2022.
4. Yilmaz N, Dewing C, **Visagie CM**. Novel *Fusarium* species from South African milk farm pastures. The 3rd ASM Joint MYTOX-SOUTH Symposium 2022, Stellenbosch, South Africa, 4–7 September 2022.

5. Mthembu A, **Visagie CM**, Yilmaz N. Survey of fungal and oomycete diversity from maize field soils in the Eastern Cape. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
6. Qikani N, Yilmaz N, Steenkamp E, **Visagie CM**. Biodiversity of fungi on maize agricultural soils in the Free state and North- West. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
7. Bezuidenhout S, Yilmaz N, Meyer H, **Visagie CM**. The fungal diversity and mycotoxins associated with South African stored soybeans. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
8. Kgatle MG, Maduna N, Kisten L, Nsibo DL, Slippers B, **Visagie CM**. Surveying maize foliar diseases in the Eastern Cape. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
9. Price, JL, Yilmaz N, Meyer H, **Visagie CM**. Fungi and their mycotoxins associated with maize ear rots from emerging farms in the Eastern Cape, South Africa 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
10. Dewing C, Yilmaz N, Steenkamp E, Wingfield BD, **Visagie CM**. Three new *Fusarium* species isolated from Eastern Cape dairy farm pastures. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
11. Nieuwoudt A, Slippers B, **Visagie CM**. Whole genome sequencing of *Exserohilum turcicum* races present in maize growing fields of South Africa. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
12. Van Vuuren N, **Visagie CM**, Wingfield MJ, Yilmaz N. Fungal diversity in Namibian *Stipagrostis* 'fairy circles' including descriptions of four new *Curvularia* species. 52nd Congress of the Southern African Society of Plant Pathology, Pretoria, South Africa, 1–3 August 2022.
13. Van Vuuren N, **Visagie CM**, Wingfield MJ, Cowan D, Yilmaz N. Diversity of fungi associated with *Stipagrostis* in the Namib desert "fairy circles". Mycological Society of America Annual Meeting, 'Mycology from the Cloud' virtual meeting, 22 July 2020.
14. Price J-L, **Visagie CM**, Yilmaz N. Fungal diversity associated with sunflower and soybean seeds in South Africa. Mycological Society of America Annual Meeting, 'Mycology from the Cloud' virtual meeting, 22 July 2020.
15. **Visagie CM**, Houbraken J, Yilmaz N. *Penicillium* and *Talaromyces* from a biodiversity hotspot. Mycological Society of America Annual Meeting, 'Mycology from the Cloud' virtual meeting, 22 July 2020.
16. Buthelezi ZM, **Visagie CM**, Jacobs K. *Cladosporium* species in the natural habitat: a source of contamination for indoor environments. Joint Biodiversity Information Management & Foundational Biodiversity Information Programme Forum 2019. Pretoria, South Africa, 20–22 August 2019.
17. Ndaba NS, **Visagie CM**, Jacobs K. *Trichoderma* as a functional fungal group in the rhizosphere of maize and wheat under conventional and conservation agricultural practices. Joint Biodiversity Information Management & Foundational Biodiversity Information Programme Forum 2019. Pretoria, South Africa, 20–22 August 2019.
18. Swart A, Shokoohi E, **Visagie CM**, Marais M. Specimens of an entomophilic species of the genus *Cruznema* found in a potato rotation trial site in the Free State Province, South Africa. Potatoes SA Research Symposium 2019, Bela Bela, 23–25 July 2019.
19. **Visagie CM**, Yilmaz N. Updating the taxonomy of the genera *Aspergillus* and *Penicillium* in South Africa. 11th International Mycological Congress, San Juan, Puerto Rico, July 2018.
20. **Visagie CM**, Seifert KA. New xerophilic fungi from the indoor environment. 5th International Conference on the Microbiology of the Built Environment, Boulder, USA, June 2016.
21. **Visagie CM**, Houbraken J, Jacobs K, Seifert KA, Samson RA. New insights into *Penicillium* diversity. 14th International Union of Microbiological Societies Congresses, Montréal, Canada, July to August 2014.
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