

Prof. Dr. Eva H. Stukenbrock

Date and place of birth: 14.09.1976, Silkeborg, Denmark

Affiliation:

Botanical Institute,
Am Botanischen Garten 9-11,
Kiel University

Phone: +49 431 880 6368

Email: estukenbrock@bot.uni-kiel.de

Homepage: <https://www.environmental-genomics.de/>

Google Scholar: <https://scholar.google.com/citations?user=8AMbvTkAAAAJ&hl=da>

Current position: Professor (tenured) W3

Education and career:

1998 - 2004	Msc in Biology, University of Copenhagen, Denmark
2004 – 2007	PhD, ETH Zurich, Switzerland
2007	Post doc, Plant Pathology, ETH Zurich, Switzerland
2008 – 2010	Post doc, Bioinformatics Research Center, University of Aarhus, Denmark
2010 – 2012	Project Group Leader, Max Planck Institute for Terrestrial Microbiology, Marburg, Germany
2012 – 2014	Max Planck Research Group Leader, MPRG Fungal Biodiversity, Max Planck Institute for Terrestrial Microbiology, Marburg, Germany
Since 2014	W3 Max Planck Professor, Christian-Albrechts University of Kiel, Germany
2025	Appointed Extraordinary Professor of the University of Pretoria, South Africa

Selected Awards and Functions:

2007	ETH medal November 2007 given for an outstanding PhD dissertation
2008	L'Oreal-UNESCO 2008 national fellowship for women in science
2012-2023	Steering committee member of the DFG Priority Programme "Rapid evolutionary adaptation: Potential and constraints" SPP1819
2014-2024	Max Planck Fellow
2018-2022	Member of the Dioscuri Committee of the Max Planck Society
since 2016	Vice-Speaker of the Kiel Evolution Center
since 2017	Associate editor PLoS Genetics, since 2023 Section Editor
Since 2019	Speaker and co-founder of Kiel Plant Center?
Since 2019	Member of the Plant Expert Panel of the German Research Council
Since 2019	CIFAR fellow of the Canadian Institute for Advanced Research (CIFAR)
2020	Academy Fellow, the American Academy of Microbiology
2022	Associated Member, the French Academy of Science
2022	ERC consolidator grant for the project "FungalSecrets"
2023	Elected Member of the European Academy of Arts and Sciences
2024	Spokesperson of the DFG-funded Research Unit "PlantsCoChallenge"

2024	Rudolf Heitefuß Prize from the German Society of Phytopathology
2024	Appointed Extraordinary Professor of the University of Pretoria, South Africa

Funded Projects as PI (last 10 years):

- 03/2024: DFG-funded Research Unit PlantsCoChallenge. Main PI and spokesperson. 4.5 Mill €
- 05/2023: ERC consolidator grant, FungalSecrets 2 Mill €
- 03/2020: Co-Principal Investigator, CIFAR catalyst funding programme, 15,000CAN\$
- 03/2019: Co-Principal Investigator and CIFAR fellow “The Fungal Kingdom”, 30,000€
- 06/2019: Principal Investigator, DFG TransEvo GRK 2501, 356.469€
- 10/2018-9/2021 Co-Principal Investigator Cluster of Excellence ROOTS, 68.000€
- 04/2019-03/2022: Principal Investigator, DFG SPP1819, 247,700€
- 09/2017: Co-PI ESEB network training group, 60,000
- 11/2015-10/2019: Principal Investigator DFG SFB1182, 482,900€
- 08/2015: Principal Investigator DFG Research Instrument, 276,500€
- 06/2015-05/2018: Principal Investigator DFG SPP1819, 305,150€
- 08/2014-07/2020: Principal Investigator. Individual grant from the State of Schleswig Holstein, Christian-Albrechts University of Kiel, 5 million € and individual grant and fellowship from the Max Planck Society, 1 million €.
- 02/2012-07/2014: Principal Investigator. Individual grant and fellowship from the Max Planck Society, yearly budget 413,000€. With the funding E.H. Stukenbrock established the independent Max Planck Research Group “Fungal Biodiversity” at the Max Planck Institute for Terrestrial Microbiology in Marburg, Germany.

Ten selected publications:

1. Case NT, Gurr S, Fisher MC, Blehert DS, Boone C, Casadevall A, Chowdhary A, Cuomo CA, Currie CR, Denning DW, Gusa A, Iliev ID, James TY, Jin H, Kahmann R, Klein BS, Kronstad JW, Ost KS, Peay K, Shapiro RS, Sheppard DC, Shlezinger N, Stajich JE, **Stukenbrock EH**, Taylor JW, Wright GD, Cowen LE, Heitman J, Segre JA. 2025. Fungal impacts on Earth’s ecosystems. ***Nature*** *In Press*
2. **Stukenbrock, E.**, Gurr, S., 2023. Address the growing urgency of fungal disease in crops. ***Nature*** 617, 31–34.
3. Möller M, Habig M, Lorrain C, Feurtey A, Haueisen J, Fagundes W, Alizadeh A, Freitag M, **Stukenbrock EH**. 2021. Recent loss of the Dim2 DNA methyltransferase decreases mutation rate in repeats and changes evolutionary trajectory in a fungal pathogen. ***PLoS Genet*** 17(3): e1009448.
4. Seybold, H., Demetrowitsch, T., Hassani, M.A., Szymczak, S., Reim, E., Haueisen, J., Rühlemann, M., Franke, A., Schwarz, K. and **Stukenbrock, E.H.**, 2020. Hemibiotrophic fungal pathogen induces systemic susceptibility and systemic shifts in wheat metabolome and microbiome composition. ***Nature Communications***, 11(1), pp.1-12.
5. Möller M, Schotanus K, Soyer J, Haueisen J, Happ K, Stralucke M, Happel P, Smith KM, Connolly LR, Freitag M, **Stukenbrock EH**. 2019. Destabilization of chromosome structure by histone H3 lysine 27 methylation. ***Plos Genetics***, 5(4), p.e1008093
6. Habig M, Kema G, **Stukenbrock E**. 2018. Meiotic drive of female-inherited supernumerary chromosomes in a pathogenic fungus. ***Elife***. e40251.

7. Habig M, Quade J, **Stukenbrock EH**. 2017. Forward genetics approach reveals host-genotype dependent importance of accessory chromosomes in the fungal wheat pathogen *Zymoseptoria tritici*. **mBio** 8.6: e01919-17.
8. Möller, M and **Stukenbrock EH**. 2017. Evolution and genome architecture in fungal plant pathogens. **Nature Reviews Microbiology**: 15.12: nrmicro-2017
9. **Stukenbrock EH**, Christiansen FB, Hansen TH, Dutheil JY, Schierup MH. 2012. Fusion of two divergent fungal individuals led to the recent emergence of a new widespread pathogen species. **Proc. Natl. Acad. Sci. USA**. 109(27), 10954-10959.
10. **Stukenbrock EH**, Bataillon T, Dutheil JY, Hansen TT, Li R, Zala M, McDonald BA, Wang J, Schierup MH (2011). The making of a new pathogen: Insights from comparative population genomics of the domesticated wheat pathogen *Mycosphaerella graminicola* and its wild sister species. **Genome Research** 21(12), 2157-2166