



Dr. Slavica Janevska

[\(Epi-\)Genetic Regulation of Fungal Virulence · Head](#) +49 3641 532-1188
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Curriculum vitae

Professional Career

2023	Junior research group leader, Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute - (Leibniz-HKI), Jena
2022	Postdoc, junior research group Biobricks of Microbial Natural Product Syntheses (Dr. Vito Valiante), Leibniz-HKI, Jena
2019-2022	Visiting researcher (fellowships from the German Research Foundation and the Foundation van Wijck-Stam-Caspersfonds), Dept. Molecular Plant Pathology (Prof. Martijn Rep), University of Amsterdam, Netherlands

2018-2019	'The role of histone modifications in <i>Fusarium oxysporum</i> pathogenicity'
2017	Postdoc, junior research group Biobricks of Microbial Natural Product Syntheses (Dr. Vito Valiante), Leibniz-HKI, Jena
2014-2017	Postdoc, Dept. Molecular Biotechnology of Fungi (Prof. Bettina Tudzynski), University of Münster PhD with distinction (<i>summa cum laude</i>), Dept. Molecular Biotechnology of Fungi (Prof. Bettina Tudzynski), University of Münster Dissertation 'Exploring the biosynthesis and regulation of novel secondary metabolite gene clusters in <i>Fusarium fujikuroi</i> via a combination of bioinformatic, molecular and chemical approaches'
2011-2014	Master of Science in Biotechnology, University of Münster
2012	International research stay, University of Bristol, UK
2008-2011	Bachelor of Science in Biosciences, University of Münster
2008	Abitur (A-levels), Heinrich-Heine-Gymnasium Oberhausen

Awards · Appointments · Scientific Activities

2024	Early Career Editor for 'Fungal Genetics and Biology'
2024	Member of the 'Genetics Society'
2023	Editor for 'Fungal Biology' of the British Mycological Society
2023	Member of the 'Association for General and Applied Microbiology' (VAAM)
2023	Associate member of the DFG Cluster of Excellence 'Balance of the Microverse'
2023	Faculty member of the 'Jena School for Microbial Communication' (JSMC), the Excellence Graduate School of the FSU Jena
2023	Associate member of the Collaborative Research Centre/Transregio 124 – FungiNet 'Pathogenic fungi and their human host: Networks of interaction'
2022	Research grant 'FusInfect' funded by the Free State of Thuringia and the European Social Fund Plus (ESF)
2022	LIFE TALENT Fund of the FSU Jena (collaboration with Dr. Matthew Agler, Plant Microbiosis)

2021	WSC Fund for extension at the University of Amsterdam, Netherlands
2018	DFG Research Fellowship at the University of Amsterdam, Netherlands
2012	'PROMOS' DAAD Scholarship for research stay at the University of Bristol, UK

Topics

[FusInfect](#)

Publications

Atanasoff-Kardjalieff AK, Berger H, Steinert K, Janevska S, Ponts N, Humpf HU, Kalinina S, Studt-Reinhold L (2024) Incorporation of the histone variant H2A.Z counteracts gene silencing mediated by H3K27 trimethylation in *Fusarium fujikuroi*. *Epigenetics Chromatin* 17(1), 7.

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Jojić K*, Gherlone F*, Cseresnyés Z, Bissell AU, Hoefgen S, Hoffmann S, Huang Y, Janevska S, Figge MT, Valiante V (2024) The spatial organization of sphingofungin biosynthesis in *Aspergillus fumigatus* and its cross-interaction with sphingolipid metabolism. *mBio* 15(3), e0019524.

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Talbi N*, Blekemolen MC*, Janevska S, Zendler DP, van Tilbeurgh H, Fudal I, Takken FLW (2024) Facilitation of symplastic effector protein mobility by paired effectors is conserved in different classes of fungal pathogens. *Mol Plant Microbe Interact* 37(3), 304-314.

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Bissell AU, Rautschek J, Hoefgen S, Raguž L, Mattern DJ, Saeed N, Janevska S, Jojić K, Huang Y, Kufs JE, Herboeck B, Guo H, Hillmann F, Beemelmans C, Valiante V (2022) Biosynthesis of the sphingolipid inhibitors sphingofungins in filamentous fungi requires aminomalonnate as a metabolic precursor. *ACS Chem Biol* 17(2), 386-394.

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Janevska S, Ferling I, Jojić K, Rautschek J, Hoefgen S, Proctor RH, Hillmann F, Valiante V (2020) Self-protection against the sphingolipid biosynthesis inhibitor fumonisin B1 is conferred by a *FUM* cluster-encoded ceramide synthase. *mBio* 11(3), e00455-20.

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Burkhardt I, Ye Z, Janevska S, Tudzynski B, Dickschat JS (2019) Biochemical and mechanistic characterization of the fungal reverse *N*-1-dimethylallyltryptophan synthase DMATS1Ff. *ACS Chem Biol* 14(12), 2922-2931.

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Manfiolli AO, Siqueira FS, Dos Reis TF, Van Dijck P, Schrevens S, Hoefgen S, Föge M, Straßburger M, de Assis LJ, Heinekamp T, Rocha MC, Janevska S, Brakhage AA, Malavazi I, Goldman GH, Valiante V (2019) Mitogen-activated protein kinase cross-talk interaction modulates the production of melanins in *Aspergillus fumigatus*. *mBio* 10(2), e00215-19.

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Janevska S, Baumann L, Sieber CMK, Münsterkötter M, Ulrich J, Kämper J, Güldener U, Tudzynski B (2018) Elucidation of the two H3K36me3 histone methyltransferases Set2 and Ash1 in *Fusarium fujikuroi* unravels their different chromosomal targets and a major impact of Ash1 on genome stability. *Genetics* 208(1), 153-171.

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Janevska S, Güldener U, Sulyok M, Tudzynski B, Studt L (2018) Set1 and Kdm5 are antagonists for H3K4 methylation and regulators of the major conidiation-specific transcription factor gene *ABA1* in *Fusarium fujikuroi*. *Environ Microbiol* 20(9), 3343-3362.

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Janevska S, Tudzynski B (2018) Secondary metabolism in *Fusarium fujikuroi*: strategies to unravel the function of biosynthetic pathways. *Appl Microbiol Biotechnol* 102(2), 615-630. (Review)

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