

## Miroslava (Mirka) Uhlířová

### Personal Data

Title	Prof. Dr.
First name	Miroslava (Mirka)
Name	Uhlířová
Current position	Full Professor, permanent
Current institution(s)/site(s), country	Signaling and Gene Expression, Institute for Genetics / CECAD Faculty of Mathematics and Natural Sciences, University of Cologne, Germany
Identifiers/ORCID	0000-0002-5735-8287

### Qualifications and Career

Stages	Periods and Details
Doctorate	Cell and Molecular Biology, 2000–2004, Prof. Marek Jindra, Faculty of Biological Sciences, University of South Bohemia, Ceske Budejovice, Czech Republic
Master	Genetics and Molecular Biology, 1998–2000, Dr. Vlasta Sovová, Department of Genetics and Microbiology, Charles University, Prague, Czech Republic
Bachelor	Biological Sciences, 1995–1998, Faculty of Science, Charles University, Prague, Czech Republic

### Stages of Academic/Professional Career

Full Professor (W3)	2013–present, University of Cologne, Germany
Research Group Leader Tenure Track	2008–2013, Institute for Genetics/CECAD, University of Cologne, Germany
Research Assistant Professor	2007–2008, Department of Biomedical Genetics, University of Rochester Medical Center, Rochester, NY, USA
Postdoctoral Fellow	2004–2007, Department of Biomedical Genetics, University of Rochester Medical Center, Rochester, NY, USA
Postdoctoral Fellow	2004, Department of Genetics, Institute of Entomology ASCR, Ceske Budejovice, Czech Republic

### Activities in the Research System

#### Institutional Responsibilities (selected)

2023–present	Executive Board Member, Cologne Excellence Cluster EXC 2030 (DFG) “Cellular Stress Responses in Aging-associated Diseases” (CECAD), Cologne, Germany
2022–present	Member, EUniWell Working Group MSc Program, Arena 1: Health and Well-being, University of Cologne, Germany
2022–present	Scientific Coordinator, “Master of Science in Genetics and Biology of Aging and Regeneration” Program, Department of Biology, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany
2022	Co-Organizer, 60 <sup>th</sup> Anniversary Institute for Genetics Symposium Cologne, Germany
2020–present	Member, Tenure Track Committee, Faculty of Mathematics and Natural Sciences, University of Cologne, Germany
2019–present	Member, CECAD Career Development and Diversity Board, University of Cologne, Germany

2019–2020	Deputy Director, Department of Biology, University of Cologne, Germany
2018–2019	Managing Director, Department of Biology, University of Cologne, Germany
2018	Managing Director, Institute for Genetics, University of Cologne, Germany
2016–2017	Managing Director, CECAD Research Center, University of Cologne, Germany
2013–present	Member, Hiring and Habilitation Committee, Institute for Genetics/CECAD, University of Cologne, Germany

#### Service to the Scientific Community (selected)

2023–present	Board Member, European <i>Drosophila</i> Society (EDS)
2018–2021	Review Panel Member, Cellular and Developmental Biology (SEJTBIOL), National Research, Development and Innovation Office, Hungary
2018	Co-Organizer, Cologne Spring Meeting “RNA: beyond its genetic code”, Cologne, Germany
2016 present	Co-Organizer, German <i>Drosophila</i> Meeting, Cologne, Germany 2015– Deputy Member, Selection and Graduate Committee, Graduate School for Biological Sciences (GSfBS) and Interdisciplinary Program Molecular Medicine (IPMM), University of Cologne, Germany
2015	Co-Chair, Session “Models of Human Disease”, 24 <sup>th</sup> European <i>Drosophila</i> Research Conference (EDRC), Heidelberg, Germany
2015	Co-Organizer, Cologne Spring Meeting “21 <sup>st</sup> Century Genetics”, Cologne, Germany

### Scientific Results

#### Category A

Stancović, D., Tain, L., and **Uhlirova, M.** (2024). Xrp1 governs the stress response program to spliceosome dysfunction. **Nucleic Acids Res** 52:2093–2111. doi: 10.1093/nar/gkae055. (open access)

Floc’hlay, S., Balaji, R., Stancović, D., Christiaens, V.M., Bravo Gonzalez-Blas, C., De Winter, S., Hulselmans, G.J., De Waegeneer, M., Quan, X., Koldere, D., Atkins, M., Halder, G., **Uhlirova, M.**, Classen, A.#, and Aerts, S.# (2023). Shared enhancer gene regulatory networks between wound and oncogenic programs. **Elife** 12:e81173. doi: 10.7554/eLife.81173. (open access)

Külshammer, E.\*, Kilinc, M.\*, Csordás, G.\*, Bresser, T., Nolte, H., and **Uhlirova, M.** (2022). The mechanosensor Filamin A/Cheerio promotes tumourigenesis via specific interactions with components of the cell cortex. **FEBS J** 289:4497–4517. doi: 10.1111/febs.16408. (open access)

Erkelenz, S., Stankovic, D., Mundorf, J., Bresser, T., Claudius, A.-K., Boehm, V., Gehring, N.H., and **Uhlirova, M.** (2021). Ecd promotes U5 snRNP maturation and Prp8 stability. **Nucleic Acids Res** 49:1688–1707. doi: 10.1093/nar/gkaa1274. (open access)

Csordás, G.#, Grawe, F., and **Uhlirova, M.**# (2020). Eater cooperates with Multiplexin to drive the formation of hematopoietic compartments. **Elife** 9:e5729. doi: 10.7554/eLife.57297. (open access)

Stancović, D., Claudius, A., Schertel, T., Bresser, T., and **Uhlirova, M.** (2020). A *Drosophila* model to study Retinitis pigmentosa pathology associated with mutations in the core splicing factor Prp8. **Dis Model Mech** 13:dmm043174. doi: 10.1242/dmm.043174. (open access)

Cosolo, A., Jaiswal, J., Csordás, G., Grass, I., **Uhlirova, M.**, and Classen, A. (2019). JNK-dependent cell cycle stalling in G2 promotes survival and senescence-like phenotypes in tissue stress. **Elife** 8:e41036. doi: 10.7554/eLife.41036. (open access)

Mundorf, J., Donohoe, C.D., McClure, C.D., Southall, T.D., and **Uhlirova, M.** (2019). Ets21c governs tissue renewal, stress tolerance, and aging in the *Drosophila* intestine. **Cell Rep** 27:3019–3033. doi: 10.1016/j.celrep.2019.05.025. (open access)

Donohoe, C.D.\*, Csordás, G.\*, Correia, A., Jindra, M., Klein, C., Habermann, B., and **Uhlirva, M.** (2018). Atf3 links loss of epithelial polarity to defects in cell differentiation and cytoarchitecture. **PLoS Genet** 14:e1007241. doi: 10.1371/journal.pgen.1007241. (open access)

Külshammer, E.\*, Mundorf, J.\*, Kilinc, M., Frommolt, P., Wagle, P., and **Uhlirva, M.** (2015). Interplay among Drosophila transcription factors Ets21c, Fos and Ftz-F1 drives JNK-mediated tumor malignancy. **Dis Model Mech** 8:1279–1293. doi: 10.1242/dmm.020719. (open access)

\* *shared first authorship*, # *shared corresponding authorship*

### Academic Distinctions

2008	Sofja Kovalevskaja Award, Alexander von Humboldt Foundation
2005	Fulbright-Masaryk Fellowship (declined)
2003	NATO Short-term Science Fellowship