

Curriculum Vitae

Personal information

Name: Zuzana Naščáková, M.Sc.
Date of birth: June 9, 1992
Place of birth: Michalovce, Slovak Republic
Nationality: Slovak
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Education

1998 - 2010 Pre-university education

2010 - 2013 Bachelor degree, Faculty of Natural Sciences, Comenius University in Bratislava, Slovak Republic

2013 - 2015 Master degree, Department of Genetics, Faculty of Natural Sciences, Comenius University in Bratislava, Slovak Republic
Theme: Analysis of *Chlamydomonas reinhardtii* mutants obtained by insertional mutagenesis, sensitive to DNA damage caused by alkylating agents

2015 - present PhD degree, Developmental and Cell biology, Faculty of Natural Sciences, Charles University in Prague, Czech Republic
Institute of Molecular Genetics of AS CR, v.v.i.,
Theme: Genomic instability associated with formation of RNA:DNA hybrids and molecular mechanism of its suppression

October 2017 Fellowship in collaborating laboratory at the Institute of Molecular Cancer Research, University of Zurich, Switzerland

2018 –2019 Operational Programme for Research, Development and Education of Ministry of Education, Youth and Sports – International Mobility of Researchers
Fellowship at the Institute of Molecular Cancer Research, University of Zurich, Switzerland

Extracurricular activities

Pedagogical activities

2013 – 2015 Member of organization team of The Slovak National Biology Olympiad for high school students.

- 2013 – 2015 Assistant to the teacher of practical courses for bachelor students as a part of the master program at the department of Genetics of the Comenius University in Bratislava.
- 2017 Educational seminar of the course “Physiology of aging, cell senescence and carcinogenesis” guaranteed by MUDr. Zdeněk Hodný, CSc.

Practical Courses

- 2015 FiJi ImageJ Workshop
- 2016 Course “Elements in science 2016”
- 2016 Course “Transmission electron microscopy in life sciences”
- 2017 FlowJo v10 Seminar
- 2019 Course “Biological imaging and image analysis” (Faculty of Sciences, Charles University, MPI Heidelberg, Germany)
- 2020 edX course - Image Processing and Analysis for Life Scientists

Conferences

- 2015 PhD conference organized by Faculty of Natural Sciences of Charles University held in Sv. Jan pod Skalou.
- 2016 The 7th Annual Meeting on Stem Cells, DNA Damage and Apoptosis
- 2016 PhD conference organized by Faculty of Natural Sciences of Charles University held in Sv. Jan pod Skalou. (Nascakova, Z: “The Role of homologous replication proteins in RNA-DNA hybrids formation”)
- 2017 Genome Integrity & Cancer 2017 (Nascakova, Z: “The Role of R-loops specifically in G1 phase of the cell cycle”)
- 2017 The 8th PhD Conference organised by Department of Development and Cell Biology of Faculty of Sciences, UK in Prague
- 2018 The 8th Annual Meeting on Stem Cells, DNA damage and Apoptosis
- 2018 EMBO Workshop - RNA and Genome Maintenance: Cooperation and conflict management. Mainz, Germany (Boleslavská, B; Nascakova, Z: “The novel tool for detection of genotoxic RNA:DNA hybrids”)
- 2019 The 14th Charles Rudolphe Brupbacher Symposium. Breakthroughs in Cancer research and Therapy. Zurich, Switzerland (Nascakova, Z: “The Role of R-loops specifically in G1 phase of the cell cycle”)
- 2019 IMG Seminar. (Nascakova, Z: “Unravelling the mechanism of *Helicobacter pylori*-induced DNA double-strand breaks”, presentation)

- 2019 EMBO Young Scientists Forum. Prague, Czech Republic (Nascakova, Z: “Unravelling the mechanism of *Helicobacter pylori*-induced DNA double-strand breaks”)
- 2019 The RRR (DNA Replication, Repair and Recombination) Club of Switzerland. Zurich, Switzerland (Nascakova, Z: “Unravelling the mechanism of *Helicobacter pylori*-induced DNA double-strand breaks“, presentation)

Publications

- 2019 Schadt, L., Sparano, C., Schweiger, N. A., Silina, K., Cecconi, V., Lucchiari, G., Yagita, H., Guggisberg, E., Saba, S., Nascakova, Z., Barchet, W., van den Broek, M. (2019). **Cancer-Cell-Intrinsic cGAS Expression Mediates Tumor Immunogenicity.** *Cell Rep*: 29;29(5):1236-1248.e7.
doi: 10.1016/j.celrep.2019.09.065
- 2020 Chappidi, N., Nascakova, Z. Boleslavská, B. Zellweger, R. Isik, E., Andrs, M., Menon, S., Dobrovolna, J., Balbo Pogliano, C., Matos, J., Porro, A., Lopes, M. Janscak, P. (2020) **Fork Cleavage-Religation Cycle and Active Transcription Mediate Replication Restart after Fork Stalling at Co-transcriptional R-Loops.** *Mol Cell*: 6;77(3):528-541.e8.
doi: 10.1016/j.molcel.2019.10.026
- 2020 Bauer, M.*, Nascakova, Z.*, Mihai, A. I.*, Cheng, P. F., Levesque, M. P., Lampart, S., Hurwitz, R., Pfannkuch, L., Dobrovolna, J., Jacobs, M., Bartfeld, S., Dohlman, A., Shen, X., Gall, A. A., Salama, N. R., Topfer, A., Weber, A., Meyer, T. F., Janscak, P., Muller, A. (*shared first-authorship) (2020) **ALPK1/TIFA/NF- κ B axis links a bacterial carcinogen to R-loop-induced replication stress.** *Nat Commun*: 9;11(1):5117
doi: 10.1038/s41467-020-18857-z