

CURRICULUM VITAE

PERSONAL INFORMATION

Name Iva Šplíchalová
Birth March 18th, 1990, Litoměřice, Czechia
Nationality Czech
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SUMMARY

Iva has been always driven by curiosity which has resulted in a great hunger for knowledge. Therefore, Iva's passion to gain skill and the knowledge enables her to initiate new projects with great enthusiasm. Based on experience with various comprehensive projects, Iva knows well an irreplaceable of teamwork and communication in achieving high standards goals. By interlinking these abilities with critical thinking Iva can position her work to a broader perspective and thus reach top quality results.

WORKING EXPERIENCE

2014-present **PhD candidate**, Department of Immunobiology, Institute of Molecular Genetics, Prague, Czechia
Top skills: embryonic hematopoiesis, immunology, project management, manuscript preparation

2013-2014 **Laboratory technician**, Generi Biotech, Hradec Kralové, Czechia
Top skills: handling of cell cultures, transfection of cell lines, purification of proteins

2012- 2013 **Open Science III supervisor**, Laboratory of Gnotobiology, Institute of Microbiology Czechia
Top skills: Preparation and characterization of monoclonal antibodies

EDUCATION

2014-present **Doctoral study in Immunology**, Faculty of Science, Charles University, Prague, Czechia
Dissertation thesis: Toll-like receptor 2 positive hematopoietic progenitor cells in the ontogenesis of hematopoiesis

2009- 2014 **Master study in Bioanalytical diagnostics in health care**, Faculty of Pharmacy, Charles University, Czechia
Master thesis: Optimization of the transfection of eukaryotic cell lines

FELLOWSHIPS

2019 Internship, Isabelle Godin laboratory at Institute Gustave Roussy, [France](#)
Reason: Precise staging of early embryos for the revision process

2013 Erasmus internship, Department of Analytical Chemistry, University of Granada, [Spain](#)
Reason: Development of the method for detection of LSD in human hair for capillary electrophoresis coupled with laser-induced fluorescence

2012 Student internship, University Hospital in Hradec Kralove, Czechia
Reason: Handling of human samples at the Department of Microbiology.

2011 and 2010 Student internship, Department of Microbiology (2011) and Department of Hematology (2010), Hospital in Nachod, Czechia
Reason: Handling of human samples.

AWARDS AND GRANTS

- 2020** Award for the best publication of the year 2019 at the Institute of Molecular Genetics
- 2017** Award for the best oral presentation on the PhD Conference at the Institute of Molecular Genetics
- 2016** Student travel grant from Hlavka Foundation to attend the Macrophage conference in Austin, Texas, USA
- 2015-2017** Student grant from Charles University Grant Agency for independent financial support of student PhD project
- 2015** Student travel grant from the Federation of European Biochemical Societies (FEBS) to attend the Immunological Summer School in Hvar, Croatia

LABORATORY SKILLS

Work with mammalian cell lines, work with mice and mouse embryos, FACS analysis and data analysis (FlowJo), PCR, DNA and RNA isolation, qRT-PCR, whole-mount immunostaining of embryos, cryosection, fluorescent microscopy, ELISA, preparation of biological samples for analytical chemistry, capillary electrophoresis

OTHER SKILLS

Project management, preparation of publications, Organizational skills (member of PhD conference organizing committee), Independence, Enthusiasm
Active driver since 2019
Yoga teacher certificate

LANGUAGE SKILLS

Czech- native speaker
English- full working proficiency
Russian- limited working proficiency

SOFTWARE SKILLS

Adobe Illustrator, GraphPad Prism, ImageJ, MS Office, FlowJo

INTERESTS

Running, yoga, graphics, traveling, culture, technology

PUBLICATIONS

Vobořil, M., Brabec, T., Dobeš, J. **Šplíchalová I.**, Březina J., Čepková A., Dobešová M., Aidarova A., Kubovčík J., Tsyklauri O., Štěpánek O., Beneš V., Sedláček R., Klein L., Kolář M., Filipp D., Toll-like receptor signaling in thymic epithelium controls monocyte-derived dendritic cell recruitment and Treg generation. *Nat Commun* 11, 2361 (2020). <https://doi.org/10.1038/s41467-020-16081-3>.

Balounová J*, **Šplíchalová I***, Dobešová M, Kolář M, Fišer K, Procházka J, Sedlacek R, Jurisicova A, Sung HK, Kořínek V, Alberich-Jorda M, Godin I, Filipp D. Toll-like receptor 2 expression on c-kit+ cells tracks the emergence of embryonic definitive hematopoietic progenitors. *Nat Commun*. 2019 Nov 15;10(1):5176. doi: 10.1038/s41467-019-13150-0. (***shared first author**).

Borna S, Drobek A, Kralova J, Glatzova D, **Splichalova I**, Fabisik M, Pokorna J, Skopcova T, Angelisova P, Kanderova V, Starkova J, Stanek P, Matveichuk OV, Pavliuchenko N, Kwiatkowska K, Prottý MB, Tomlinson M. G, Alberich-Jorda M, Korinek V, Brdicka T. Transmembrane adaptor protein WBP1L regulates CXCR4 signalling and murine haematopoiesis. *J Cell Mol Med*. 2019;00:1–13.

Splichal, I.; Donovan, S.M.; Jenistova, V.; **Splichalova, I.**; Salmonova, H.; Vlkova, E.; Neuzil Bunesova, V.; Sinkora, M.; Killer, J.; Skrivanova, E.; Splichalova, A. High Mobility Group Box 1 and TLR4 Signaling Pathway in Gnotobiotic Piglets Colonized/Infected with *L. amylovorus*, *L. mucosae*, *E. coli* Nissle 1917 and *S. Typhimurium*. *Int. J. Mol. Sci*. 2019, 20, 6294.