

RNDr. Ondřej Pelák, Ph.D.

Date of birth: 25th. December 1987, Prague

Education:

- 2007 - 2010: Bachelor - Faculty of Science, Charles University
Study branch: Molecular biology and biochemistry organisms
- 2010 - 2012: Master's degree - Faculty of Science, Charles University
Study branch: Genetics, molecular biology and virology
- 2012 – 2020 Ph.D. degree - 2nd Faculty of Medicine, Charles University,
Study branch: Immunology

Experience:

- 2010 - 2017: Flow cytometry laboratory, Department of Pediatric Hematology and Oncology, 2nd Faculty of Medicine
- 2015 - 2017: Flow cytometry Application specialist at I.T.A. – Intertact s.r.o.
- 2017 - 2021: Becton Dickinson Biosciences Application specialist in flow cytometry for CEE region
- Since 2021: Becton Dickinson Biosciences Team leader and Key Account manager for Czech and Slovak Republic

Professional experience:

2010 – 2017

Laboratory of Flow Cytometry, Department of Paediatric Haematology and Oncology, Second Faculty of Medicine, Charles University

2017 – 2023

Becton Dickinson Biosciences

- field based application specialist for flow cytometry responsible for giving initial courses after purchasing new instrument and for advanced troubleshooting in Central Eastern region (Czech Republic, Slovak Republic, Hungary, Slovenia, Croatia, Bulgaria, Romania, Montenegro, Bosnia, Serbia, Kosovo and Israel)
- since 2021 Team leader and Key Account manager for Czech and Slovak Republic

Membership in professional societies:

CSAC – Czech Society for Analytical Cytology

ISAC - The International Society for Advancement of Cytometry

Publication Record:

Majer F, Pelak O, Kalina T, Vlaskova H, Dvorakova L, Honzik T, Paleček T, Kuchyňka P, Mašek M, Zeman J, Elleder M, Sikora J. Mosaic tissue distribution of the tandem duplication of LAMP2 exons 4 and 5 demonstrates the limits of Danon disease cellular and molecular diagnostics. *Journal of inherited metabolic disease*. 2013 ISSN 1573-2665.

Kuchař, M, Vaňková L, Petroková H, Černý J, Osička R, Pelák O, Sípová H, Schneider B, Homola J, Šebo P, Kalina T, Malý P. Human interleukin-23 receptor antagonists derived from an albumin-binding domain scaffold inhibit IL-23-dependent ex vivo expansion of IL-17-producing T-cells. *Proteins* [online]. 6., vol. 82, no. 6, pp. 975–89 [accessed. 25. September 2014]. ISSN 1097-0134.

PELÁK, Ondřej, Jan STUCHLÝ, Ladislav KRÓL, Petr HUBÁČEK, Petra KESLOVÁ, Petr SEDLÁČEK, Renata FORMÁNKOVÁ, Jan STARÝ, Ondřej HRUŠÁK a Tomáš KALINA, 2015. Appearance of CMV specific T-cells predicts fast resolution of viremia post hematopoietic Stem cell transplantation. *Cytometry Part B: Clinical Cytometry* [online]. roč. 00, č. October 2015, s. n/a–n/a. ISSN 15524949. Dostupné z: doi:10.1002/cyto.b.21348

PELÁK, Ondřej, Daniela KUŽÍLKOVÁ, Daniel THÜRNER, Marie-Luise KIENE, Kristian STANAR, Jan STUCHLÝ, Martina VÁŠKOVÁ, Jan STARÝ, Ondřej HRUŠÁK, Herbert STADLER a Tomáš KALINA, 2016. Lymphocyte enrichment using CD81-targeted immunoaffinity matrix. *Cytometry Part A* [online]. č. 1, s. 1–11. ISSN 15524922. Dostupné z: doi:10.1002/cyto.a.22918

KŘÍŽOVÁ, Lucie, Milan KUCHAR, Hana PETROKOVÁ, Radim OSIČKA, Marie HLAVNIČKOVÁ, Ondřej PELÁK, Jiří ČERNÝ, Tomáš KALINA a Petr MALÝ, 2017. p19-targeted ABD-derived protein variants inhibit IL-23 binding and exert suppressive control over IL-23-stimulated expansion of primary human IL-17+ T-cells. *Autoimmunity* [online]. roč. 50, č. 2, s. 102–113. ISSN 0891-6934. Dostupné z: doi:10.1080/08916934.2016.1272598

STUCHLÝ, Jan, Veronika KANDEROVÁ, Marcela VLKOVÁ, Ivana HEŘMANOVÁ, Lucie SLÁMOVÁ, Ondřej PELÁK, Eli TARALDSRUD, Dalibor JÍLEK, Pavlína KRÁLÍČKOVÁ, Børre FEVANG, Marie TRKOVÁ, Ondřej HRUŠÁK, Eva FROŇKOVÁ, Anna ŠEDIVÁ, Jiří LITZMAN a Tomáš KALINA, 2017. Common Variable Immunodeficiency patients with a phenotypic profile of immunosenescence present with thrombocytopenia. *Scientific Reports* [online]. roč. 7, č. November 2016, s. 39710. ISSN 2045-2322. Dostupné z: doi:10.1038/srep39710

Blanco, Elena, Martin Perez-Andres, Luzalba Sanoja-Flores, Marjolein Wentink, Ondrej Pelak, Marta Martín-Ayuso, Georgiana Grigore, et al. 2017. "Selection and Validation of Antibody Clones against IgG and IgA Subclasses in Switched Memory B-Cells and Plasma Cells." *Journal of Immunological Methods*, September. <https://doi.org/10.1016/j.jim.2017.09.008>.

Blanco, Elena, Martín Pérez-Andrés, Sonia Arriba-Méndez, Teresa Contreras-Sanfeliciano, Ignacio Criado, Ondrej Pelak, Ana Serra-Caetano, et al. 2018. "Age-Associated Distribution of Normal B-Cell and Plasma Cell Subsets in Peripheral Blood." *Journal of Allergy and Clinical Immunology* 141 (6): 2208–2219.e16. <https://doi.org/10.1016/j.jaci.2018.02.017>

Majer, Filip, Lenka Piherova, Martin Reboun, Veronika Stara, Ondrej Pelak, Patricia Norambuena, Viktor Stranecky, et al. 2018. "LAMP2 Exon-Copy Number Variations in Danon Disease Heterozygote Female Probands: Infrequent or Underdetected?" *American Journal of Medical Genetics. Part A* 176 (11): 2430–34. <https://doi.org/10.1002/ajmg.a.40430>.

Poláková, Ingrid, Ondřej Pelák, Daniel Thürner, Barbora Pokrývková, Ruth Tachezy, Tomáš Kalina, and Michal Šmahel. 2019. "Implementation of Mass Cytometry for Immunoprofiling of Patients with Solid Tumors." *Journal of Immunology Research* 2019:1–10.

Stranavova, Lucia, Ondrej Pelak, Michael Svaton, Petra Hrubá, Eva Fronkova, Antonij Slavcev, Klara Osickova, Jana Maluskova, Petr Hubacek, Jiri Fronek, Petra Reinke, Hans Dieter Volk, Tomas Kalina, and Ondrej Viklicky. 2019. "Heterologous Cytomegalovirus and Allo-Reactivity by Shared t Cell Receptor Repertoire in Kidney Transplantation." *Frontiers in Immunology* 10(OCT):1–11.

Gurka, Jiri, Lenka Piherova, Filip Majer, Anna Chaloupka, Daniela Zakova, Ondrej Pelak, Alice Krebsova, Petr Peichl, Jan Krejci, Tomas Freiburger, Vojtech Melenovsky, Josef Kautzner, Tomas Kalina, Jakub Sikora, and Milos Kubanek. 2020. "Danon Disease Is an Underdiagnosed Cause of Advanced Heart Failure in Young Female Patients: A LAMP2 Flow Cytometric Study." *ESC Heart Failure* 7(5):2534–43.