



**Paediatric Haematology and Oncology Department**

**Second Faculty of Medicine, Charles University and Motol University Hospital**

Head: Assoc. Prof. Lucie Šrámková, Ph.D.

**Prof. TOMÁŠ KALINA, Ph.D., MD.**

Current position: Professor at Paediatric Haematology and Oncology Department, 2nd Faculty of Medicine, Charles University, and University Hospital Motol, Prague, Czech Republic

Expertise: Single cell analysis in immunology and hematology, mass cytometry and data analysis, development of diagnostic methods, flow cytometry. Cytometry diagnostics of primary immunodeficiency.

Scientific focus in the last 5 years:

- High dimensional cytometry (mass cytometry and spectral cytometry)
- Computational tools for the interpretation of mass, spectral and flow cytometry data.
- Mapping development of B-lymphocytes and T-lymphocytes by mass cytometry
- Development of diagnostic cytometry tests for primary immunodeficiency within EuroFlow consortium, patent PCT/NL 2015/ 050762 (Diagnosis of primary immunodeficiencies)
- Development of antibody validation tools (antibody based protein arrays and HLDA's CDmaps pilot study)
- EuroFlow Quality Assessment developer and QA work-package leader

**PROFESSIONAL EXPERIENCE :**

Since 2022 Vice-dean for Science and Research, 2nd F. of Med., Charles University

Since 2021 Professor, CLIP - Cytometry, Department of Pediatric Hematology and Oncology, 2nd F. of Med., CU and University Hospital Motol

2011 - 2021 Associate Professor, CLIP - Cytometry, Department of Pediatric Hematology and Oncology, 2nd F. of Med., CU and University Hospital Motol

2006 - 2011 Research Fellow, CLIP - Cytometry, Department of Pediatric Hematology and Oncology, 2nd F. of Med., CU and UH Motol

2005 PhD in Immunology from Charles University in Prague

2003 - 2006 Research Fellow, Department of Immunology, 2nd F. of Med., CU and UH Motol

2002 - 2003 Research Fellow, Fred Hutchinson Cancer Research Center, Seattle, WA, USA

2000 MD from Charles University in Prague

**ORCID ID: 0000-0003-4475-2872**

**Publications total 114 h-index: 27 Citations on WoS (with autocitations): 4025**

**Invited lectures at international conferences (selection of 5 out of 43):**

- 2023, **CYTO 2023, International Society for Advancements of Cytometry, Montreal, Canada**, - invited lecture: Advancements of cytometry translated to clinical diagnostics
- 2022, **European Society for Clinical Cell Analysis, Belfast, UK** - invited lecture: Diagnostic antibodies: CD nomenclature and beyond
- 2018, **European Society for Immunodeficiency, Lisbon, Portugal** - invited lecture: New cytometry technologies creating new possibilities
- 2018, **European Congress of Immunology, Amsterdam, The Netherlands**- invited lecture: Standardizing cytometry of primary immunodeficiencies
- 2015, **International Clinical Cytometry Society, Denver, USA** - invited lecture: EuroFlow Quality Assessment

**Professional achievements and awards:** **2005** Josef Hlávka award; **2006** – Hynek award; **2010** ISAC scholar award; **2009** - Ministry of Health award; **2019** - Ministry of Health award; **2022** Joe T. Trotter Leader in Cytometry Technology Award (ISAC)

**Memberships in science organizations and bodies:** HCDM.org - board member; EuroFlow – board member, Charles University, 2nd School of Medicine – scientific board member, Motol University Hospital – scientific board member, Institute of Hematology and Blood transfusion – scientific board member, Czech Society for Analytical Cytometry – vice president; Scailyte – Scientific Advisory Board member, International Society for Advancements in Cytometry, council member 2016-2020

**Scientific journal:** Associated Editor – Cytometry A journal

In Prague, 21.8.2023