

Petr Danek, MSc.

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date of birth 1.2.1991

EDUCATION

- 2015 – 2021** **Ph.D.**
- Laboratory of Hemato-oncology (Institute of Molecular Genetics of the CAS, Prague, Czech Republic); Charles University in Prague**
(Project: Identification and Characterization of Novel Mechanisms Regulating Steady-State and Emergency Granulopoiesis; supervisor – Meritxell Alberich-Jorda, Ph.D.)
- 2013 – 2015** **Master of Science**
- Cell and Development Biology (Charles University in Prague)**
(Project: The Molecular Mechanism of CSL Protein Participation in Oxidative Stress Response in *Schizosaccharomyces pombe*; supervisor – RNDr. Martin Prevorovsky, Ph.D.)
- 2010 – 2013** **Bachelor of Science**
- Molecular and Cell Biology (Palacky University in Olomouc)**
(Project: Non-profit drugs: The Activity of Disulfiram-Copper Complex Against a Cell Line Derived from Osteosarcoma; supervisor - Mgr. Boris Cvek, Ph.D.)
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ADDITIONAL SCIENTIFIC EXPERIENCE

- 2018 (3 months)** **Research stay at Cancer Science Institute at National University of Singapore, Singapore**
Project: Transcriptome Analysis of ST- and LT-HSC Lacking TCF/LEF Transcription Factor Activity
- 2013 (3 months)** **Research stay at Barbara Ann Karmanos Cancer Institute (Wayne State University, Detroit, USA)**
Project: Mechanism of Action of Synthetic Disulfiram Copper Complex in the PC-3 Cell Line Derived from Human Prostate Cancer

2013 **Participation in research project at Palacky University**
Project: OP VK CZ.1.07/2.3.00/20.0062 – An Inexpensive Drug Antabuse as Anticancer Remedy: Mechanism of Action and Clinical Trials

AWARDS & GRANTS

2020 **25th Annual EHA Congress Travel Grant**

2019 **ASH Abstract Achievement Award**

2018 **24th Annual EHA Congress Travel Grant**

2017 **EHA Junior Short Term Collaboration Grant**
Project: Transcriptome Analysis of ST- and LT-HSC Lacking TCF/LEF Transcription Factor Activity

2017 **Grant from Charles University Grant Agency (GAUK 1278217)**
Project: Expansion of Hematopoietic Progenitors for Stem Cell Transplantation

2016 **The Best Poster Award at 12th EFIS-EJI Tatra Immunology Conference**

PUBLICATIONS

2020 **Danek P**, Kardosova M, Janeckova L, Karkoulia E, Vanickova K, Fabisik M, Lozano Asencio C, Benoukraf T, Tirado-Magallanes R, Zhou Q, Burocziova M, Rahmatova S, Pytlik R, Brdicka T, Tenen DG, Korinek V, Alberich Jorda M. β -catenin-TCF/LEF signaling promotes steady-state and emergency granulopoiesis via G-CSF receptor upregulation. *Blood*, 2020

2020 Lukes J Jr, **Danek P**, Alejo-Valle O, Potuckova E, Gahura O, Heckl D, Starkova J, Sary J, Mejstrikova E, Alberich-Jorda M, Zuna J, Trka J, Klusmann JH, Zaliova M. Chromosome 21 gain is dispensable for transient myeloproliferative disorder driven by a novel GATA1 mutation. *Leukemia*, 2020

2018 Zjablovskaja P*, **Danek P***, Kardosova M, Alberich-Jorda M. Proliferation and Differentiation of Murine Myeloid Precursor 32D/G-CSF-R Cells. *JOVE*, 2018
*authors contributed equally

2018 Kardosova M, Zjablovskaja P, **Danek P**, Angelisova P, de Figueiredo-Pontes LL, Welner RS, Brdicka T, Lee S, Tenen DG, Alberich-Jorda M. C/EBP γ is dispensable for steady-state and emergency granulopoiesis. *Haematologica*, 2018

- 2017** Zjablovskaja P, Kardosova M, **Danek P**, Angelisova P, Benoukraf T, Kalina T, Balastik M, Delwel R, Brdicka T, Tenen DG, Fiore F, Malissen B, Horejsi V, Meritxell Alberich-Jorda M. EVI2B is a C/EBP α target gene required for granulocytic differentiation and functionality of hematopoietic progenitors. *Cell Death and Differentiation*, 2017
- 2014** Sedlacek J, Martins L, **Danek P**, Pombeiro AJL, Cvek B. Diethyldithiocarbamate complexes with metals used as food supplements show different effects in cancer cells. *Journal of Applied Biomedicine*, 2014
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SCIENTIFIC ENGAGEMENT & POPULARIZATION

- 2017 – 2021** **Ph.D. Representative at Institute of Molecular Genetics, Prague**
Organization of student community, annual conferences, national and international events, and meetings for Ph.D. students
- 2020** **Lecturer of Advances in Immunology course at Charles University**
Two 90 min long lectures focused on HSC biology
- 2018** **Article in Czech science popularization journal Vesmír**
From the Bone Marrow to the Lungs and Back Again
- 2016** **Chairman of scientific session at Czech multi genre festival Nelen!**
- 2015** **Invited speaker at Czech multi genre festival Nelen!**
Talk about scientific method and limitations of human cognitive process