

Date of birth: **1st December 1984**; Nationality: **Slovak**

Research website: <http://www.med.muni.cz/histology/research/>

PROFESSIONAL EXPERIENCE:

8/2014 – present: Junior Group Leader; Department of Histology and Embryology, Faculty of Medicine, Masaryk University, Brno, Czech Republic

1/2013 – 7/2014: Post-Doctoral Research Fellow; Department of Anesthesiology, University of California, San Diego, La Jolla, CA (Research group of Prof. Martin Marsala, M.D.)

10/2013 – 11/2013: Visiting Scholar at GMP Facility, UC Davis, School of Medicine Institute for Regenerative Cures, 2921 Stockton Blvd, Sacramento, CA 95817 (Prof. Gerhard Bauer)

10/2011 – 12/2012: Visiting Grad Student; Department of Anesthesiology, University of California, San Diego, La Jolla, CA (Research group of Prof. Martin Marsala, M.D.)

02/2011 – 10/2011: Research assistant; FNUSA-ICRC: St. Anne's University Hospital in Brno - International Clinical Research Center (Research group of Assoc. Prof. D.V.M., Ales Hampl, Ph.D.)

09/2007 – 10/2011: Research assistant; Department of Molecular Embryology, Institute of Experimental Medicine, Academy of Sciences of the Czech Republic, Brno, Czech Republic (Research group of Assoc. Prof. D.V.M., Ales Hampl, Ph.D.)

09/2006 – 10/2012: Research assistant; Department of Biology and Department of Histology and Embryology, Faculty of Medicine, Masaryk University, Brno, Czech Republic (Research group of Assoc. Prof. D.V.M., Ales Hampl, Ph.D. and Prof. Petr Dvorak, Ph.D.)

EDUCATION AND ACADEMIC QUALIFICATIONS:

2008 – 2012 PhD in Medical Biology, *Faculty of Medicine, Masaryk University, Brno*

Thesis: Characterization of Molecular Changes Coupled to Differentiation Pathway in Human Embryonic Stem Cells

2006 – 2008 Mgr. in Genetics and Molecular Biology, *Faculty of Science, Masaryk University, Brno*

Thesis: Analysis of Effects of Inhibition of Cyclin Dependent Kinases on Differentiation of Human Embryonic Stem Cells

2003 – 2006 Bc. in Genetics and Molecular Biology, *Faculty of Science, Masaryk University, Brno*

Thesis: Molecular Mechanisms of Differentiation Induction in Human Embryonic Stem Cells

RESEARCH SUPPORT:

2015 – 2017 Principal Investigator: Dasa Dolezalova, Masaryk University, Brno;

Junior Research Grant funded by Grant Agency of the Czech Republic (GACR) on the project *The role of microRNA in cell cycle regulation and differentiation of human embryonic stem cell-derived neural stem cells.*

2016 Principal Investigator: Dasa Dolezalova, Masaryk University, Brno;

Support research grant for junior researchers at Masaryk University, Brno, funded by Grant Agency of Masaryk University (GAMU) on the project *The role of MicroRNA in neural differentiation of human embryonic stem cells.*

2012 – 2014 Principal Investigator: Lawrence Goldstein, University of California San Diego;

Early Translational Research Award funded by California Institute for Regenerative Medicine (CIRM) on the project *Stem cell-derived astrocyte precursor transplants in ALS.*

2009 - 2010 Principal Investigator: Dasa Dolezalova, Masaryk University, Brno;

Grant of the rector of Masaryk University 2009-2010: *The role of microRNAs and protein coding genes in human embryonic stem cell response to DNA damage.*

2007 - 2009 Principal Investigator: Dasa Dolezalova, Masaryk University, Brno;

Grant of the rector of Masaryk University 2007-2009: *Analysis of Effects of Inhibition of Cyclin Dependent Kinases on Differentiation of Human Embryonic Stem Cells.*

2007 – 2010 Project Coordinator: Peter W. Andrews, University of Sheffield;

European scientific consortium “ESTOOLS - Advances with human embryonic stem cells”

PUBLICATIONS:

Total Number of Peer-reviewed Publications (including book chapters): **13**

Citations: Web of Science (without self-citations) – **235**; h-index – **7**;

Cumulative Impact Factor: **55,136**

SELECTED PUBLICATIONS AND BOOK CHAPTERS:

- Bagherpoor AJ, **Dolezalova D***, Barta T, Kucirek M, Sani SA, Esner M, Bosakova M, Vinarsky V, Peskova L, Hampl, A, Stros M*: Properties of Human Embryonic Stem Cells and Their Differentiated Derivatives Depend on Nonhistone DNA-Binding HMGB1 and HMGB2 Proteins. STEM CELLS AND DEVELOPMENT 2017; * **Corresponding authors**
- **Dolezalova D**, Mraz M, Hampl A.: MicroRNAs in Embryonic Stem Cells. Book chapter in: MICRORNA IN REGENERATIVE MEDICINE 2014. Published by: ELSEVIER
- **Dolezalova D**, Hruska-Plochan M, Bjarkam CR, ..., Muotri A, Bui J, Strnadel J, Marsala M.: Pig models of neurodegenerative disorders: Utilization in cell replacement-based preclinical safety and efficacy studies. JOURNAL OF COMPARATIVE NEUROLOGY 2014. 522 (12), 2784-2801
- **Dolezalova D**, Mraz M, Barta T, Plevova K, Vinarsky V, Holubcova Z, Jaros J, Dvorak P, Pospisilova S, Hampl A.: MicroRNAs Regulate p21(Waf1/cip1) Protein Expression and the DNA Damage Response in Human Embryonic Stem Cells. STEM CELLS 2012 Jul; 30 (7):1362–1372
- Mraz M, **Dolezalova D**, Plevova K, Stano Kozubik K, Mayerova V, Cerna K, Musilova K, Tichy B, Pavlova S, Borsky M, Verner J, Doubek M, Brychtova Y, Trbusek M, Hampl A, Mayer J, Pospisilova S.: MicroRNA-650 expression is influenced by immuneoglobulin gene rearrangement and affects the biology of chronic lymphocytic leukemia. BLOOD 2012 Mar 1; 119(9):2110-3.
- Borghese L, **Dolezalova D**, Opitz T, Haupt S, Leinhaas A, Steinfarz B, Koch P, Edenhofer F, Hampl A, Brüstle O.: Inhibition of notch signaling in human embryonic stem cell-derived neural stem cells delays G1/S phase transition and accelerates neuronal differentiation in vitro and in vivo. STEM CELLS 2010 May; 28(5):955-964

AWARDS AND ACHIEVEMENTS:

- 2009 – 2011 BRNO PhD TALENT FELLOWSHIP** – awarded annually to 20 PhD students in Southern Moravian District by Brno City Municipality (<http://www.jcmm.cz/en/doctors.html>)
- 2014 – TRAVEL AWARD** and **INVITED ORAL PRESENTATION** awarded by *The American Society for Neural Therapy and Repair 21th Annual Meeting*, Clearwater Beach, FL, USA 2014
- 2013 –“THE MOST INNOVATIVE METHOD” PRIZE** for the poster presentation awarded by GeneTex Inc. at *Postdoctoral Research Symposium, UCSD, La Jolla, CA, 2013*
- 2013** – awarded (as a part of the research team) with the prize "**The Best Original Scientific publication in the Field of Hematology in 2012**" by Czech Hematology Association for the publication *Mraz et al.: BLOOD 2012*
- 2012 – TRAVEL AWARD** awarded by organizing committee of *International Society for Stem Cell Research (ISSCR) 10th Annual Meeting*, Yokohama, Japan 2012
- 2011 – TRAVEL AWARD** awarded by organizing committee of *International Society for Stem Cell Research (ISSCR) 9th Annual Meeting*, Toronto, Canada 2011
- 2011 – 1ST PRIZE** for the oral presentation at *The Student Scientific Conference on Cancer Research*, Brno, 2011
- 2011 – 1ST PRIZE** for the oral presentation at *Young Investigators' meeting* in Biology and Biochemistry section (awarded by Sigma – Aldrich Company)
- 2011** –awarded (as a part of the research team) with the prize "**The Best Scientific Achievement in the Field of Biomedicine in 2010**" by Dean of the Faculty of Medicine, Masaryk University for the publication *Barta et al.: Stem Cells 2010*
- 2010 – 1ST PRIZE** for the best poster presentation at *EMBO Young Scientists' forum*, Prague 2010 (awarded by European Molecular Biology Organization)
- 2009 – 1ST PRIZE** for the best oral presentation at conference *8th Meeting of Young Investigators in Molecular Biology and Biochemistry*, Brno, Czech Republic 2009