

# Curriculum vitae

Matouš Vobořil

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## Personal information:

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**Date of birth:** 08.03.1990  
**Correspondence:** Institute of Molecular Genetics of the ASCR, v.v.i  
Laboratory of Immunobiology, Rm. 2.74  
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**Nationality:** Czech  
**Academic degree:** Master of Science (M.Sc.)  
**Family status:** Married, one son

## Education:

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**2014 – Ongoing** Faculty of Science, Charles University in Prague  
**Ph. D. study in Immunology**  
Dissertation thesis: Aire-expressing cells in immune tolerance in health and disease (Supervisor: Dr. Dominik Filipp)

**2012 – 2014** Faculty of Science, Charles University in Prague  
**Master's degree in Immunology**  
Diploma thesis: Aire-expressing cells in immune peripheral tissues (Supervisor: Dr. Dominik Filipp)

**2009 – 2012** Faculty of Science, Charles University in Prague  
**Bachelor's degree in Biology**  
Bachelor thesis: Leukemic stem cells (Supervisor: Dr. Petr Stöckbauer)

## Positions:

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**2018 (July)** **Visiting Ph. D student**  
Weizmann Institute of Science,  
Department of Immunology, Immune Tolerance & Autoimmunity  
Laboratory (Head: Prof. Jakub Abramson), Rehovot, Israel.

**2012 – Ongoing** **Master and Ph. D student**  
Institute of Molecular Genetics of the ASCR, v.v.i,  
Department of Immunobiology (Head: Dr. Dominik Filipp), Prague, CZ

**2011 – 2012** **Undergraduate student**  
Institute of Haematology and Blood Transfusion,  
Department of Cellular Biochemistry (Head: Dr. Petr Stöckbauer), Prague, CZ

## Training course:

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**2015** Animal handling course (CZ 02929-Czech Ministry of Agriculture)

## Awards:

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2019	Excellent oral presentation AWARD – 5 <sup>th</sup> PhD Conference in Immunology, Charles University in Prague
2018	The best poster presentation prize – PhD student conference at Institute of Molecular Genetics
2018	The best poster presentation prize – 13 <sup>th</sup> EFIS-EJI Tatra Immunology Conference, Strbske Pleso, Slovakia
2015	The best short-talk prize – PhD student conference at Institute of Molecular Genetics

## Grants awarded:

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2019	ThymE: T cells and thymus biology, Israel 2019 travel bursary
2018	Short-term travel grant to Israel (Czech Academy of Science, Grant N. ISR-18-31)
2017	Kyoto T cell Conference (KTCC) 2017 travel bursary
2015 – 2017	Charles University Grant Agency (PhD student grant) Lymph node Aire-expressing cells under steady-state and inflammatory conditions (Grant N. 154215)

## Conferences attended:

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2019	EMBO workshop ThymE: T cells and thymus biology, Rehovot, Israel <b>(Oral presentation)</b>
2018	13 <sup>th</sup> EFIS-EJI Tatra Immunology Conference, Strbske Pleso, Slovakia <b>(Poster presentation)</b>
2018	Cell-Weizmann Institute of Science Symposium: Next Gene Immunology, Rehovot, Israel <b>(Poster presentation)</b>
2017	Kyoto T cell Conference (KTCC) 2017, Kyoto, Japan <b>(Oral presentation)</b>
2017	2 <sup>nd</sup> Midwinter Conference (MWC) Advances in Immunobiology, Seefeld, Austria <b>(Poster presentation)</b>
2016	12 <sup>th</sup> EFIS-EJI Tatra Immunology Conference, Strbske Pleso, Slovakia <b>(Oral and poster presentation)</b>
2016	ABC5 Autoimmunity: Basics and Clinical 2016, Tartu, Estonia <b>(Oral and poster presentation)</b>
2016	Symposium Cell-fate decisions in the immune system, SFB1054, LMU, Munich, Germany
2015	18 <sup>th</sup> FEBS International Summer School on Immunology, Rabac, Croatia <b>(Poster presentation)</b>
2015	Venice Thymus Meeting 2015, Venice, Italy

## Additional academic activities:

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2017-2020	Co-lecturer “Advances in Immunology” course, Charles University in Prague, for undergraduate students
2017-2018	Co-organization of 3 <sup>rd</sup> and 4 <sup>th</sup> PhD Conference in Immunology, Charles University in Prague, Member of the organization committee <a href="https://sites.google.com/a/natur.cuni.cz/phd-conference-in-immunology-2018/">https://sites.google.com/a/natur.cuni.cz/phd-conference-in-immunology-2018/</a>
2016-2018	Student mentoring at the Institute of Molecular Genetics of the CAS, mentoring of one bachelor and one master thesis in the Dr. Filipp laboratory

## Language skills:

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Czech	Native speaker
English	Actively
French	Passively

## Personal skills:

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PC	Windows, Word, Excel, PowerPoint, Zoner PS, Adobe Illustrator, GrapPad Prism, FlowJo
Laboratory skills	FACS, FACS data analysis (FlowJo), FACS sorting, PCR, qRT-PCR, DNA and RNA isolation, RNA sequencing, fluorescent microscopy, western blotting, FTOCs generation, intrathymic injections, bone marrow chimeras, T-cell transfer, work with mice models and cell lines

## List of Publications:

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2020	<b>M.Vobořil</b> , T. Brabec, J. Dobeř, I. řplíchalová, J. Březina, A. řepková, M. Dobeřová, A. Aidarova, J. Kubovřiak, O. Tsyklauri, O. řtěpánek, V. Beneř, R. Sedláček, L. Klein, M. Kolář, and D. Filipp, <i>Toll-like receptor signaling in thymic epithelium controls monocyte-derived dendritic cell recruitment and Treg generation</i> . <b>Nat Commun</b> , (2020); doi: <a href="https://doi.org/10.1038/s41467-020-16081-3">10.1038/s41467-020-16081-3</a>
2019	Yamano, T, J. Dobeř, <b>M. Vobořil</b> , M. Steinert, T. Brabec, N. Ziętara, M. Dobeřová, C. Ohnmacht, M. Laan, P. Peterson, V. Benes, R. Sedláček, R. Hanayama, M. Kolář, L. Klein, and D. Filipp, <i>Aire-expressing ILC3-like cells in the lymph node display potent APC features</i> . <b>J Exp Med</b> , (2019); doi: <a href="https://doi.org/10.1084/jem.20181430">10.1084/jem.20181430</a> .
2018	D. Filipp, T. Brabec, <b>M. Vobořil</b> , J. Dobeř, <i>Enteric <math>\alpha</math>-defensins on the verge of intestinal immune tolerance and inflammation</i> . <b>Semin Cell Dev Biol</b> , (2018); doi: <a href="https://doi.org/10.1016/j.semcdb.2018.01.007">10.1016/j.semcdb.2018.01.007</a> . Review
2018	J. Dobeř, F. Edenhofer, <b>M. Vobořil</b> , T. Brabec, M. Dobeřová, A. řepková, L. Klein, K. Rajewsky, D. Filipp, <i>A novel conditional Aire allele enables cell-specific ablation of the immune tolerance regulator Aire</i> . <b>Eur J Immunol</b> , (2018); doi: <a href="https://doi.org/10.1002/eji.201747267">10.1002/eji.201747267</a> .
2015	J. Dobeř, A. Neuwirth, M. Dobeřová, <b>M. Vobořil</b> , J. Balounová, O. Ballek, J. Lebl, A. Meloni, K. Krohn, N. Kluger, A. Ranki, D. Filipp, <i>Gastrointestinal Autoimmunity Associated With Loss of Central Tolerance to Enteric <math>\alpha</math>-Defensins</i> . <b>Gastroenterology</b> , (2015); doi: <a href="https://doi.org/10.1053/j.gastro.2015.05.009">10.1053/j.gastro.2015.05.009</a> .