

## Mahr Benedikt, PhD

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### Curriculum Vitae

#### Academic Education

<b>Doctor of Philosophy (PhD)</b> 03/2011 – 02/2016	<b>Immunology</b> Medical University of Vienna, Department of Surgery
<b>Master of Sciences (MSc)</b> 09/2008 – 06/2010	<b>Biomedical Engineering</b> University of Applied Sciences, Vienna
<b>Bachelor of Sciences (BSc)</b> 09/2005 - 06/2008	<b>Biomedical Engineering</b> University of Applied Sciences, Vienna
<b>Higher School Certificate</b> 09/2000 - 06/2004	<b>Humanities</b> Bundesgymnasium XIX, Vienna

#### Work Experience

<b>Postdoc</b> 02/2016 – current	<b>Medical University of Vienna</b> , Section of Transplant Immunology
<b>PhD Student</b> 03/01/2011 – 02/2016	<b>Medical University of Vienna</b> , Section of Transplant Immunology -
<b>Intern</b> 11/2014 – 12/2014	<b>University College London</b> , Institute of Immunity and Transplantation
<b>Intern</b> 11/2010 – 01/2011	<b>Technical University of Vienna</b> , Department of Bioelectronics, Institute for Solid-body Electronics
<b>Intern (Master's degree)</b> 12/2009 – 09/2010	<b>Technical University of Vienna</b> , Institute of Electrodynamics, Microwave and Circuit Engineering, Biomedical Sensors
<b>Intern</b> 01/2009 – 05/2009	<b>Medical University of Vienna</b> , Department of Anesthesia and Intensive-Care Medicine
<b>Assistance</b> 10/2006 – 12/2009	<b>Medical University of Vienna</b> , Institute of Vascular Biology and Thrombosis Research
<b>Intern (Bachelor's degree)</b> 01/2008 - 05/2008	<b>Medical University of Vienna</b> , Institute of Vascular Biology and Thrombosis Research
<b>Military Service</b> 10/2004 – 06/2005	<b>Military Hospital</b> Van Swieten Casern
<b>Intern</b> 08/2003 – 08/2003	<b>Raiffeisenlandesbank NÖ/W</b> Banking

#### Additional Qualification

<b>POL<sup>1</sup> moderator</b>	<b>Medical University of Vienna</b> Teaching Center 2017
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<sup>1</sup> Problemlorientiertes Lernen

<b>Radiation Protection SAP</b>	<b>Seibersdorf Laboratories 2007 &amp; 2015 University of Applied Sciences 2009</b>
<b>Teaching</b>	
<b>Journal Club</b>	<b>Medical University of Vienna ongoing</b>
<b>POL seminar</b>	<b>Medical University of Vienna ongoing</b>
<b>Diploma Thesis</b>	<b>Medical University of Vienna 08/16 - current</b>
<b>Memberships</b>	
<b>Austrian Society of Transplantation</b>	<b>09/01/2012-current</b>
<b>International Society of Heart &amp; Lung Transplantation</b>	<b>12/01/2016-current</b>
<b>Awards</b>	
<b>Travel Grant</b>	<b>Transplantforum 2017</b>
<b>Travel Grant</b>	<b>Austrian Society of Transplantation 2016</b>
<b>Young Investigator Award</b>	<b>Austrian Society of Transplantation 2014</b>
<b>Travel Grant</b>	<b>Austrian Society of Surgical Research 2014</b>
<b>Travel Grant</b>	<b>Austrian Society of Transplantation 2013</b>
<b>Immunotools</b>	<b>Immunotools Award 2012</b>
<b>Poster Presentations</b>	
<b>Fort Lauderdale (USA)</b>	<b>Basic Science in Transplantation Meeting 2016</b>
<b>Vienna (AUT)</b>	<b>European Congress of Immunology (2 posters) 2015</b>
<b>Amsterdam (NLD)</b>	<b>International Conference on Immune Tolerance 2014</b>
<b>Paris (FRA)</b>	<b>European Society for Organ Transplantation Basic Science Meeting 2013</b>
<b>Oral Presentations</b>	
<b>Kitzbühel (AUT)</b>	<b>Austrian Society of Transplantation 2015</b>
<b>Brussels (BEL)</b>	<b>European Society for Organ Transplantation 2015</b>
<b>Vienna (AUT)</b>	<b>Young Scientist Association Medical University of Vienna 2015</b>
<b>Bad Ischl (AUT)</b>	<b>Austrian Society of Transplantation 2014</b>
<b>Gosau (AUT)</b>	<b>Austrian Society of Surgical Research 2014</b>
<b>Mayerhofen (AUT)</b>	<b>Austrian Society of Transplantation 2013</b>
<b>Vienna (AUT)</b>	<b>European Society for Organ Transplantation 2013</b>
<b>Vienna (AUT)</b>	<b>Young Scientist Association Medical University of Vienna 2013</b>
<b>Rust (AUT)</b>	<b>Austrian Society of Transplantation 2012</b>
<b>Invited Talks</b>	
<b>Schladming (AUT)</b>	<b>Austrian Society of Transplantation 2016</b>
<b>Wien (AUT)</b>	<b>Platform for Advanced Cellular Therapies 2015</b>

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## Bibliography

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1. **Mahr, B.**, N. Pilat, S. Maschke, N. Granofszky, C. Schwarz, L. Unger, K. Hock, A.M. Farkas, C. Klaus, H. Regele and T. Wekerle, *Regulatory T cells Promote Natural Killer Cell Education in Mixed Chimeras*. American Journal of Transplantation, 2017.
2. **Mahr, B.** and T. Wekerle, *Murine Models of Transplantation Tolerance through Mixed Chimerism: Advances and Roadblocks*. Clinical & Experimental Immunology, 2017.
3. Bigenzahn, S., I. Pree, C. Klaus, N. Pilat, **B. Mahr**, E. Schwaiger, P. Nierlich, F. Wrba and T. Wekerle, *Minor Antigen Disparities Impede Induction of Long Lasting Chimerism and Tolerance through Bone Marrow Transplantation with Costimulation Blockade*. J Immunol Res, 2016. **2016**: p. 8635721.
4. Schwarz, C., L. Unger, **B. Mahr**, K. Aumayr, H. Regele, A.M. Farkas, K. Hock, N. Pilat and T. Wekerle, *The Immunosuppressive Effect of CTLA4 Immunoglobulin Is Dependent on Regulatory T Cells at Low But Not High Doses*. American Journal of Transplantation, 2016. **16**(12): p. 3404-3415.
5. Baranyi, U., A.M. Farkas, K. Hock, **B. Mahr**, B. Linhart, M. Gattringer, M. Focke-Tejkl, A. Petersen, F. Wrba, T. Rüllicke, R. Valenta and T. Wekerle, *Cell Therapy for Prophylactic Tolerance in Immunoglobulin E-mediated Allergy*. EBioMedicine, 2016. **7**: p. 230-239.
6. Pilat, N., **B. Mahr**, L. Unger, K. Hock, C. Schwarz, A.M. Farkas, U. Baranyi, F. Wrba and T. Wekerle, *Incomplete clonal deletion as prerequisite for tissue-specific minor antigen tolerization*. JCI Insight, 2016. **1**(7).
7. **Mahr, B.**, L. Unger, K. Hock, N. Pilat, U. Baranyi, C. Schwarz, S. Maschke, A.M. Farkas and T. Wekerle, *IL-2/alpha-IL-2 Complex Treatment Cannot Be Substituted for the Adoptive Transfer of Regulatory T cells to Promote Bone Marrow Engraftment*. Plos One, 2016. **11**(1).
8. Pilat, N., C. Klaus, K. Hock, U. Baranyi, L. Unger, **B. Mahr**, A.M. Farkas, F. Wrba and T. Wekerle, *Polyclonal Recipient nTregs Are Superior to Donor or Third-Party Tregs in the Induction of Transplantation Tolerance*. Journal of Immunology Research, 2015.
9. Hock, K., **B. Mahr**, C. Schwarz and T. Wekerle, *Deletional and regulatory mechanisms coalesce to drive transplantation tolerance through mixed chimerism*. European Journal of Immunology, 2015. **45**(9): p. 2470-2479.
10. Pilat, N., A.M. Farkas, **B. Mahr**, C. Schwarz, L. Unger, K. Hock, R. Oberhuber, K. Aumayr, F. Wrba and T. Wekerle, *T-regulatory cell treatment prevents chronic rejection of heart allografts in a murine mixed chimerism model*. Journal of Heart and Lung Transplantation, 2014. **33**(4): p. 429-437.
11. Hock, K., N. Pilat, U. Baranyi, **B. Mahr**, M. Gattringer, C. Klaus and T. Wekerle, *Donor CD4 T Cells Trigger Costimulation Blockade-Resistant Donor Bone Marrow Rejection Through Bystander Activation Requiring IL-6*. American Journal of Transplantation, 2014. **14**(9): p. 2011-2022.
12. Kaniusas, E., G. Varoneckas, **B. Mahr** and J.C. Szeles, *Optic Visualization of Auricular Nerves and Blood Vessels: Optimisation and Validation*. Ieee Transactions on Instrumentation and Measurement, 2011. **60**(10): p. 3253-3258.
13. Gunzl, P., K. Bauer, E. Hainzl, U. Matt, B. Dillinger, **B. Mahr**, S. Knapp, B.R. Binder and G. Schabbauer, *Anti-inflammatory properties of the PI3K pathway are mediated by IL-10/DUSP regulation*. Journal of Leukocyte Biology, 2010. **88**(6): p. 1259-1269.

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## Under Revision

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Bigenzahn S, Juergens B, **Mahr B**, Pratschke J, Koenigsrainer A, Becker T, Fuchs D, Brandacher G, Muehlbacher F and Wekerle T *No Augmentation of Indoleamine 2,3-Dioxygenase (IDO) activity through Belatacept treatment in liver transplant recipients.* Transplantation

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## Under Review

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N. Granofszky, A. M. Farkas, M. Muckenhuber, **B. Mahr**, L. Unger, S. Maschke, N. Pilat, R. Holly, M. Wiletel, H. Regele and T. Wekerle *Anti-IL-6 promotes allogeneic bone marrow engraftment and prolonged graft survival in an irradiation-free murine transplant model.* Frontiers in Immunology