

Academic curriculum vitae

Name: Barbara Maier
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Education

Postdoctoral Fellow in Immunology and Oncological Science
Icahn School of Medicine at Mount Sinai, New York, 03/2016 – 11/2020
Prof. Miriam Merad, MD, PhD

PhD in Immunology
Medical University of Vienna, Vienna, 09/2011 – 12/2015
Prof. Dr. Sylvia Knapp, Md, PhD

Master of Science in Molecular Biology
University of Vienna, Vienna, 09/2005 – 08/2011
Prof. Dr. Manuela Baccharini, PhD

High School Diploma (Matura)
GRG17 Parhamergymnasium 2005

Additional Research Experience

University of Vienna, Vienna, Prof. Dr. Ulrich Technau	02-04/2010
Institute of Molecular Biotechnologie (IMBA), Vienna, Prof. Dr. Javier Martinez	05-07/2010

Professional Organizations

Member of the New York Academy of Sciences	2018 - present
Member of the American Association of Cancer Research (AACR)	2017 - present
Member of the Cancer Research Institute (CRI)	2017 - present
Member of the Austrian Society for Allergology and Immunology (ÖGAI)	2013 – present
Organizing committee of the Immunology Outreach Program: planning & teaching Immunology Course for Center for Excellence and Youth Education (CEYE) & the Lloyd Sherman Scholars	2020

Training at International Conferences

Selected Participant of the Arthur L. Irving Family Foundation Career Building Cancer Immunology Symposium, Boston, USA 03/2021
Selected for Oral Presentation at the 5th International Cancer Immunotherapy Conference (CICON) 09/2019

Publications

ORCID ID: 0000-0002-7359-6576

Key publications

2020 A conserved dendritic cell regulatory program limits antitumor immunity. Maier, B, Andrew, L, Chen, S, Tung, N, Chang, C, LeBerichel, J, Chudnovskiy, A, Maskey, S, Walker, L, Finnigan, J, Kirkling, M, Reizis, B, Ghosh, S, Roy D'Amore, N, Bhardwaj, N, Rothlin, C, Wolf, A, Flores, R, Marron, T, Rahman, A, Kenigsberg, E, Brown, B, Merad, M. Nature. 2020 March 25. Doi: 10.1038/s41586-020-2134-y

2020 Squalene-based adjuvants stimulate CD8 T cell, but not antibody responses, through a RIPK3-dependent pathway. Eui Ho Kim, Matthew C Woodruff, Lilit Grigoryan, Barbara Maier, Song Hee Lee, Pratushya Mandal, Mario Cortese, Muktha S Natrajan, Rajesh Ravindran, Huailiang Ma, Miriam Merad, Alexander D Gitlin, Edward S Mocarski, Joshy Jacob, Bali Pulendran, eLife 2020;9:e52687 DOI: 10.7554/eLife.52687

2019 ImmGen report: sexual dimorphism in the immune system transcriptome. Gal-Oz, ST, Maier, B, Yoshida, H, Seddu, K, Elbaz, N, Czysz, C, Zuk, O, Stranger, BE, Ner-Gaon, H, Shay, T. Nat Commun. 2019 Sept 20. Doi: 10.1038/s41467-019-12348-6

2019 β -catenin activation promotes immune escape and resistance to anti-PD-1 therapy in hepatocellular carcinoma. Ruiz de Galarreta, M, Maier, B[#], Bresnahan[#], E, Molina-Sanchez[#], P, Lindblad[#], KE, Sia, D, Puigvehi, M, Miguela, V, Casanova-Acebes, M, Dhainaut, M, Villacorta-Martin, C, Singhi, AD, Moghe, A, von Felden, J, Tal Grinspan, L, Wang, S, Kamphorst, AO, Monga, SP, Brown, BD, Villanueva, A, Llovet, JM, Merad, M, Lujambio, A. Cancer Discov. 2019 Jun 11. Doi: 10.1158/2159-8290.CD-19-0074

2019 Dietary intake regulates the circulating inflammatory monocyte pool. Jordan, S, Tung, N, Casanova-Acebes, M, Chang, C, Cantoni, C, Zhang, D, Wirtz, TH, Naik, S, Rose, SA, Brocker, CN, Gainullina, A, Hornburg, D, Horng, S, Maier, B, Cravedi, P, LeRoith, D, Gonzalez, FJ, Meissner, F, Ochando, J, Rahman, A, Chipuk, JE, Artyomov, MN, Frenette, PS, Piccio, L, Berres, ML, Gallagher, EJ, Merad, M. Cell. 2019 Aug. 22. Doi: 10.1016/j.cell.2019.07.050

2019 The cis-Regulatory Atlas of the Mouse Immune System. Yoshida, H, Lareau, CA, Ramirez, RN, Rose, SA, Maier, B, Wroblewska, A, Desland, F, Chudnovski, A, Mortha, A, Dominguez, C, Tellier, J, Kim, E, Dwyer, D, Shinton, S, Nabekura, T, Qi, Y, Yu, B, Robinette, M, Kim, KW, Wagers, A, Rhoads, A, Nutt, SL, Brown, BD, Mostafavi S, Buenrostro JD, Benoist, C, Immunological Genome Project. Cell. 2019 Feb 7. Doi: 10.1016/j.cell.2018.12.036

2019 RAF dimers control vascular permeability and cytoskeletal rearrangements at endothelial cell-cell junctions. Dorard C, Cseh, B, Ehrenreiter, K, Wimmer, R, Varga, A, Hirschmugl, T, Maier, B, Kramer, K, Fuerlinger, S, Doma, E, Baccarini, M. FEBS J. 2019 Mar 3. DOI: 10.1111/febs.14802

2016 Type I Interferon Promotes Alveolar Epithelial Type II Cell Survival during Pulmonary Streptococcus Pneumoniae Infection and sterile lung injury in mice.

Barbara Maier, Anastasiya Hladik, Karin Lakovits, Ana Korosec, Rui Martins, Julia B. Kral, Ildiko Mesteri, Birgit Strobl, Mathias Müller, Ulrich Kalinke, Miriam Merad, Sylvia Knapp. Eur J Immunol. 2016 Jun 17. doi: 10.1002/eji.201546201

2013 A reversible gene trap collection empowers haploid genetics in human Cells.

Bürckstümmer, T, Banning, C, Hainzl, P, Schobesberger, R, Kerzendorfer, C, Pauler, FM, Chen, D, Them, N, Rebsamen, M, Smida, M, Fece de la Cruz, F, Lapao, A, Liszt, M, Eizinger, B, Guenzl, P, Konopka, T, Gapp, B, Papatatics, K, Maier, B, Stöckl, J, Fischl, W, Salic, S, Taba, R, Knapp, S, Bennett, KL, Bock, C, Colinge, J, Kralovics, R, Ammerer, G, Casari, G, Brummelkamp, TR, Superti-Furga, G and Nijman, SMB. Nat Methods, 2013 Oct;10(10):965-71. doi: 10.1038/nmeth.2609.

2012 Angiogenic sprouting requires the fine tuning of endothelial cell cohesion by the Raf-1/Rok alpha complex.

Wimmer, R, Cseh, B, Maier, B, Scherrer, K, Baccarini, M. Dev Cell, 2012 Jan 17;22(1):158-71. doi: 10.1016/j.devcel.2011.11.012.

Preprint publications

2020 CITEseq analysis of non-small-cell lung cancer lesions reveals an axis of immune cell activation associated with tumor antigen load and TP53 mutations.

Andrew M. Leader, John A. Grout, Christie Chang, Barbara Maier, Alexandra Tabachnikova, Laura Walker, Alona Lansky, Jessica LeBerichel, Naussica Malissen, Melanie Davila, Jerome Martin, Giuliana Magri, Kevin Tuballes, Zhen Zhao, Francesca Petralia, Robert Samstein, Natalie Roy D'Amore, Gavin Thurston, Alice Kamphorst, Andrea Wolf, Raja Flores, Pei Wang, Mary Beth Beasley, Helene Salmon, Adeeb H. Rahman, Thomas U. Marron, Ephraim Kenigsberg, Miriam Merad. bioRxiv 2020-07-17 preprint. doi:10.1101/2020.07.16.207605.

2020 Open Source ImmGen: network perspective on metabolic diversity among mononuclear phagocytes.

Anastasiia Gainullina, Li-Hao Huang, Helena Todorov, Kiwook Kim, Lim Sheau Yng, Andrew Kent, Baosen Jia, Kumba Seddu, Karen Krchma, Jun Wu, Karine Crozat, Elena Tomasello, Vipin Narang, Regine Dress, Peter See, Charlotte Scott, Sophie Gibbings, Geetika Bajpai, Jigar V. Desai, Barbara Maier, Sébastien This, Peter Wang, Stephanie Vargas Aguilar, Lucie Poupel, Sébastien Dussaud, Tyng-An Zhou, Veronique Angeli, J. Magarian Blander, Kyunghye Choi, Marc Dalod, Ivan Dzhagalov, Emmanuel L. Gautier, Claudia Jakubzick, Kory Lavine, Michail S. Lionakis, Helena Paidassi, Michael H. Sieweke, Florent Ginhoux, Martin Williams, Christophe Benoist, Miriam Merad, Gwendalyn J. Randolph, Alexey Sergushichev, Maxim N. Artyomov, ImmGen Consortium. bioRxiv 2020-07-16 preprint. doi: 10.1101/2020.07.15.204388.