Curriculum Vitae

Name & Address Mathias Müller
Professor of Veterinary Molecular Genetics and Biotechnology
Department of Biological Sciences and Pathobiology,
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Date of Birth & April 17, 1960, in Krefeld, Germany
Marital Status: Married, one child

University Studies

1980-1986 "Veterinary Medicine" at the Ludwig Maximilians University Munich
1986-1990 PhD thesis 'Molecular genetic characterisation of the porcine Mx- and IGF-I genes and functional examination of Mx-transgenic pigs' supervised by Prof. Dr. Dr. habil. G. Brem (Dept. of Molecular Animal Breeding, LMU Munich) and Prof. Dr. E.-L. Winnacker (Institute of Biochemistry, LMU Munich); Ph.D. defense with “first class honors” (summa cum laude).

Research & Professional Experience

Feb. 1990 - April 1991, postdoctoral fellow at the Department of Molecular Animal Breeding (Prof. Gottfried Brem) and the Institute of Biochemistry (Prof. Ernst-Ludwig Winnacker) at the LMU Munich
May 1991 - Sept. 1993, postdoctoral fellowship at the Imperial Cancer Research Fund, London UK in the Biological Regulatory Mechanisms Laboratory, headed by Ian M. Kerr, PhD, FRS and George R. Stark
Sept. 1993 - April 1994, assistant professor at the Department of Molecular Animal Breeding, LMU Munich
May 1994 - Jan. 1998, associate professor at the Institute of Animal Breeding and Genetics of the University of Veterinary Medicine Vienna, Austria and deputy head of the Department of Biotechnology in Animal Production at the IFA Tulln, Austria
since Jan. 1998, Chair (C4 professorship) 'Veterinary Biotechnology and Molecular Genetics' and Head of Institute of Animal Breeding and Genetics, Vetmeduni Vienna
2002 - 2016, Head of Institute of Biotechnology in Animal Production at the IFA Tulln
2000 - 2005, Initiator and Head of Biomodels Austria (formerly Austrian Center of Biomodels and Transgenetics, ÖZBT) of Vetmeduni Vienna
2005 - 2007, Head of Department of Agrobiotechnology IFA Tulln at the University of Natural Resources and Applied Life Sciences (BOKU), Vienna
since 2006, Chairman of the Supervisary Board of Biomodels Austria at Vetmeduni Vienna (former Austrian Center of Biomodels and Transgenetics)
2006 - 2016, Speaker of the Austrian Science Fund FWF Special Research Program SFB F28 ‘Jak-Stat Signalling: From Basics to Disease’
2008 - 2017, Head of Department of Biomedical Sciences at Vetmeduni Vienna
2017 - 2026, Speaker of the Austrian Science Fund FWF Special Research Program SFB F61 ‘Jak-Stat Monarchies’
2020 - 2026, Head of Department of Biological Sciences and Pathobiology at Vetmeduni Vienna

Honors, Awards & University Positions Offered

1987 - 1990, 'Stipendium nach dem Gesetz zur Förderung des wissenschaftlichen und künstlerischen

Nachwuchses' (Stipend for promoting talented students in sciences and the arts), Munich, Bavaria
May 1991 - May 1992, Fellow of the European Molecular Biology Organization (EMBO Long Term Fellowship)
June 1992 - June 1993, Fellow of the Commission of the European Communities (CEC Fellowship at Senior Level in the Framework of the Medical Research Programme)
July 1993 - Sept. 1993, Fellow of the Imperial Cancer Research Fund
Aug. 1994, Governor's Lectureship at St Mary's Hospital Medical School (Imperial College of Science, Technology and Medicine in the University of London), London, UK
Jan. 1996, offered chair (C4 full professorship) for Animal Breeding and Genetics at the Tierärztliche Hochschule Hannover, Germany
June 1996, offered position Professor (C4) of Animal Genetics at The Royal Veterinary and Agricultural University KVL, Copenhagen, Denmark
Aug. 1997, offered chair (C4 full professorship) of Veterinary Biotechnology and Molecular Genetics at the Veterinary University Vienna
Sept. 2001, elected member of the Leopoldina Nationale Akademie der Wissenschaften (German National Academy of Sciences)
Jan. 2025, elected member of the Niedersächsische Akademie der Wissenschaften zu Göttingen (Lower Saxony Academy of Sciences)

Specialist in Veterinary Sciences, Member of Commitees and Editoral Board Activities

since 1995, Veterinary Medical Specialist for Animal Breeding and Genetics (Austria)
1996 - 2023, 'Mitglied des wissenschaftlichen Ausschusses der Gentechnikkommission für Freisetzungen und Inverkehrbringen' §90 GTG BM:SGPK, *"Gene Technology Commission"* of the Federal Ministry of Republic of Austria for Social Affairs, Health, Care and Consumer Protection - a panel of national experts to advice the federal government in all scientific questions in life sciences and biotechnology as they relate to the Austrian Gene Technology Law
1999 - 2016, Editorial Board of *Transgenic Research*
2003 - 2011, Member of the curatorship of the Austrian Science Foundation (FWF)
2004 - 2008, Member of the scientific board of the Federal Ministry of Education and Research of Germany funding 'FUGATO' (Functional Genome Analysis of Animal Organisms)
2004 - 2017, Member of the Scientific Decision Board of the Bavarian Ministry of Science, Research and Arts funding 'BayGene' (Bavarian Genome Research Networks)
2006 - 2008, Scientific Member of the Governing Council of the Roslin Institute Edinburgh UK
2007 - 2014, Scientific consultant for the Institute of Science and Technology Austria (IST Austria)
2008 - 2015, Member of the Scientific Advisary Board of the Roslin Institute UK
since 2009, Reviewer for the French National Research Agency (ANR)
since 2010, Reviewer for the German Research Funding Agency (Deutsche Forschungsgemeinschaft, DFG)
2011 - 2018, Member of the Scientific Advisary Board of the ‚Virtual Institute on Viral Strategies of Immune Evasion (VISTRIE)' Helmholtz Center for Infection Research, Braunschweig D
since 2012, Reviewer for VEGA, grant agency of the Ministry of Education, Science, Research and Sport of the Slovac Republic and of the Slovak Academy of Sciences
since 2012, Member of the evaluation panel of the Slowenian Research Agency (AARS)
since Sept. 2012, Member of the Ethical Committee of PreSeed/Seedfinancing Life Sciences of Austria Economy Services GmbH (AWS)
2013 - 2019, Member of the Committee for the Stipend Programs of the Austrian Academy of Sciences ÖAW
since 2014, Reviewer for program calls of the ANR, Agenece National De La Recherche France
2017-2028, Appointment to the Senat (Scientific Advisory Board) of the Christian Doppler Research Society (CDG)

Working Fields

- Jak-Stat signaling at the interface of infection, inflammation and cancer
- Biomedicine using transgenic laboratory animals and comparative medicine as models for human diseases, infection processes and therapeutic strategies

Recent Funding

Austrian Science Funds (FWF) SFB F61, 2021-2026, Special Research Programme 'Monarchies and Hierarchies in Shaping Chromatin Landscapes'; www.jak-stat.at; Co-ordination project and subproject (1.7 Mio € and 0.45 Mio €)
FWF SFB F61, 2017-2021, 'Monarchies and Hierarchies in Shaping Chromatin Landscapes'; www.jak-stat.at; Co-ordination project and subproject (1.5 Mio € and 0.4 Mio €)
EC Seventh Framework Programme Infect-ERA, 2015-2018, ‚eDEVILLI', (300 k€)
FWF SFB F28, 2006-2016, ‚JakStat Signaling'; www.jak-stat.at; Co-ordination project and subproject (3.9 Mio € and 1.0 Mio €)
FWF DK W1212, 2010-2019, ‚Inflammation and Immunity', (360 k€)

Publications:
Original papers: >240; peer-reviewed reviews & Book Chapters: 16; invited lectures: >90

Five Most Important Publications (Scientific Career):

1. Fortelny, N., Farlik, M., Fife, V., Gorki, A.-D., Lassnig, C., Maurer, B., Meissl, K., Dolezal, M., Boccuni, L., Ravi Sundar Jose Geetha, A., Akagha, M.J., Karjalainen, A., Shoebridge, S., Farhat, A., Mann, U., Jain, R., Tikoo, S., Zila, N., Esser-Skala, W., Krausgruber, T., Sitnik, K., Penz, T., Hladik, A., Suske, T., Zahalka, S., Senekowitsch, M., Barreca, D., Halbritter, F., Macho-Maschler, S., Weninger, W., Neubauer, H.A., Moriggl, R., Knapp, S., Sexl, V., Strobl, B., Decker, T.*, Müller, M.*, and Bock, C.* (2024). JAK-STAT signaling maintains homeostasis in T cells and macrophages. **Nat Immunol** *25*, 847-859. https://doi.org/10.1038/s41590-024-01804-1 ; *shared last authorship
2. Lassnig, C., Sanchez, C.M., Egerbacher, M., Walter, I., Majer, S., Kolbe, T., Pallares, P., Enjuanes, L., Müller, M. (2005) Development of a transgenic mouse model susceptible to human coronavirus 229E. **Proc Natl Acad Sci USA** 102, 8275-8280. https://doi.org/10.1073/pnas.0408589102.
3. Karaghiosoff, M., Steinborn, R., Kovarik, P., Kriegshäuser, G., Baccarini, M., Donabauer, B., Reichart, U., Kolbe, T., Bogdan, C., Leanderson, T., Levy, D., Decker, T., and Müller, M. (2003). Central role for type I interferons and Tyk2 in lipopolysaccharide-induced endotoxin shock. **Nat Immunol** 4, 471-477. https://doi.org/10.1038/ni910.
4. Karaghiosoff, M., Neubauer, H., Lassnig, C., Kovarik, P., Schindler, H., Pircher, H., McCoy, B., Bogdan, C., Decker, T., Brem, G., Pfeffer, K., and Müller, M. (2000). Partial impairment of cytokine responses in Tyk2-deficient mice. **Immunity** 13, 549-560. https://doi.org/10.1016/S1074-7613(00)00054-6.
5. Müller, M., Briscoe, J., Laxton, C., Guschin, D., Ziemicki, A., Silvennoinen, O., Harpur, A.G., Barbieri, G., Witthuhn, B.A., Schindler, C., Pellegrini, S., Wilks, A.F., Ihle, J.N., Stark, G.R. and Kerr, I.M. (1993). The protein tyrosine kinase JAK1 complements defects in the interferon-a/b and -g signal transduction. **Nature** 366, 129-135. https://doi.org/10.1038/366129a0.

Vienna, June 2026