

Schmid, Johannes A., PhD, Associate Prof. – Curriculum Vitae 2021-05-31



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Personal Data

Date of Birth: 1966-07-11
Place of Birth: Mödling, Lower Austria
Nationality: Austria

Education

1990 - 1994 PhD-thesis at the Dept. of General and Experimental Pathology, University Vienna (now: Inst. of Pathophysiology, Med. Univ. Vienna), Topic: "Endocytosis and Transcytosis in Hepatocytes". Doctorate with distinction.
1984 - 1990 Studies of food technology and biotechnology at the University of Natural Resources and Applied Life Sciences, Vienna.
1976 - 1984 Secondary school in Mödling, (with emphasis on foreign languages).
Final examination with excellent success.
1972 - 1976 Elementary school in Wiener Neudorf, Lower Austria

Career History

Since 10/2020 Head of the Inst. of Vascular Biology and Thrombosis Research, Med. Univ. Vienna
Since 2/2018 Speaker and coordinator for the 2nd funding period of the Special Research Program (SFB-F54; Cellular mediators linking inflammation and thrombosis)
9/2015 Ranked 2nd for a full-professorship at the Medical Univ. Vienna (for the field "Molecular Physiology).
Since 2/2014 Speaker of a Special Research Program (SFB-F54) of the Austrian Science Fund (FWF), coordinating a consortium of 10 groups of the Medical University of Vienna (Title: Cellular mediators linking inflammation and thrombosis)
4/2011 Ranked 2nd at an application for the position of a vice-rector for research at the University of Veterinary Medicine, Vienna
Since 7/2008 Associate Professor and Group Leader at the Medical University Vienna, Center for Physiology and Pharmacology.
8. 5. 2008 2nd Habilitation for Biochemistry at the Univ. of Natural Resources and Life Sciences, Vienna
9/2005 – 6/2008 Co-founder and Deputy Director of the Ludwig Boltzmann Institute for Cancer Research heading one of the research groups and serving as Chief Financial Officer
1/2004 – 9/2005 Research Assistant at the Dept. of Vascular Biology and Thrombosis Research, Univ. Vienna and Group Leader at the Competence Center "Bio Molecular Therapeutics"
Dec. 2004 Award of a comprehensive research grant for the foundation of a new "Ludwig Boltzmann Institute for Cancer Research" with a size of about 18 scientists (as co-applicant)
2/2003 – 1/2004 Sabbatical at the Yale University Medical School, Dept. of Immunobiology in the group of Sankar Ghosh (funded by a Max Kade Grant from the Austrian Academy of Sciences).

6. 6. 2002	Habilitation (University Lecture Qualification) for Vascular Biology at the Medical Univ. Vienna
9/2000 – 03/2003	Group Leader at the Competence Center "Bio Molecular Therapeutics (BMT)"
2/1998 – 9/2000	Research Assistant at the Dept. of Vascular Biology and Thrombosis Research, Univ. Vienna
10/1996 – 2/1998	Postdoctoral Fellowship at the Dept. of Vascular Biology and Thrombosis Research, Univ. Vienna (Research on activation of endothelial cells).
11/1994 - 10/1996	Postdoctoral Fellowship at the Novartis Research Institute, Vienna (Dept. of General Dermatology: Investigation of the effects of vitamin D ₃ -metabolites on human keratinocytes).

Career-related Activities

8/1988 - 9/1988	Temporary employment at the Unilever Research Laboratory, Bedford, England, in co-operation with the Austrian Research Center, Seibersdorf.
2/1991 - 4/1991	Scientific investigations at the Research Institute of Scripps Clinic, La Jolla, California, USA.
2/1993 - 3/1993	Research at the Carnegie Mellon University, Pittsburgh, USA.
5/2000 – 6/2000	Short term fellowship at the European Advanced Light Microscopy Facility, localized at the EMBL Heidelberg, Germany

Memberships

- Austrian Association of Molecular Life Sciences and Biotechnology (OeGMBT)
- European Atherosclerosis Society and Austrian Atherosclerosis Society
- Member of the Study group for equal treatment issues of the Med. Univ. Vienna: 2011 - 2013
- Member of the PhD Curriculum Committee of the Med. Univ. Vienna: 2011-2013

Description of research interests and most important scientific achievements

Current research interests focus on cooperativity of signaling processes in inflammation. Signal transduction pathways are studied with special focus on the NF-kappa B signaling, as well as interconnections with other signaling processes and the role of cell survival mechanisms. Signal transduction networks are studied with a variety of experimental systems, such as cell culture of primary and transformed cells or transgene mouse models. Transfection and viral transduction strategies are applied to achieve either ectopic expression or gene suppression of effector molecules followed by analyzing a variety of biological readouts such as cell proliferation, apoptosis or activation of cells.

Publications, talks and citations

[Pubmed-Link](#)

88 publications, 61 lectures, 4 patents; <http://orcid.org/0000-0002-6586-3507>

Total number of citations: 8707; h-index: 38 (based on Google Scholar, Sept. 24th, 2021)

http://scholar.google.at/citations?user=7kJu_MYAAAAJ

SCOPUS: h-index: 32, 6174 citations

Top 10 Publications

1. Moser B, Hochreiter B, Basilio J, Gleitsmann V, Panhuber A, Pardo-Garcia A, . . . Schmid JA. The inflammatory kinase IKK α phosphorylates and stabilizes c-Myc and enhances its activity, *Mol Cancer* 2021, Vol. 20: 16, <https://doi.org/10.1186/s12943-021-01308-8>
2. Salzmann M, Schrottmaier WC, Kral-Pointner JB, Mussbacher M, Volz J, Hoesel B, . . . Assinger A. Genetic platelet depletion is superior in platelet transfusion compared to current models, *Haematologica* 2020, Vol. 105: 1738-1749, <https://doi.org/10.3324/haematol.2019.222448>
3. Salzmann M, Bleichert S, Moser B, Mussbacher M, Haase M, Hoesel B, . . . Schmid JA. I κ B kinase 2 is not essential for platelet activation, *Blood Adv* 2020, Vol. 4: 638-643, <https://doi.org/10.1182/bloodadvances.2019001044>

4. Mussbacher M, Salzmänn M, Haigl B, Basílio J, Hochreiter B, Gleitsmann V, . . . Schmid JA. Ikk2-mediated inflammatory activation of arterial endothelial cells promotes the development and progression of atherosclerosis, *Atherosclerosis* 2020, Vol. 307: 21-31, <https://doi.org/10.1016/j.atherosclerosis.2020.06.005>
5. Mussbacher M, Salzmänn M, Brostjān C, Hoesel B, Schoergenhofer C, Datler H, . . . Schmid JA. Cell Type-Specific Roles of NF-κB Linking Inflammation and Thrombosis, *Front Immunol* 2019, Vol. 10: 85, <https://doi.org/10.3389/fimmu.2019.00085>
6. Hoesel B, Mussbacher M, Dikorman B, Salzmänn M, Assinger A, Hell L, . . . Schmid JA. Androgen receptor dampens tissue factor expression via nuclear factor-κB and early growth response protein 1, *J Thromb Haemost* 2018, Vol. 16: 749-758, <https://doi.org/10.1111/jth.13971>
7. Asare Y, Ommer M, Azombo FA, Alampour-Rajabi S, Sternkopf M, Sanati M, . . . Bernhagen J. Inhibition of atherogenesis by the COP9 signalosome subunit 5 in vivo, *Proc Natl Acad Sci U S A* 2017, Vol. 114: E2766-e2775, <https://doi.org/10.1073/pnas.1618411114>
8. Hoesel B, Schmid JA. The complexity of NF-κB signaling in inflammation and cancer, *Mol Cancer* 2013, Vol. 12: 86, <https://doi.org/10.1186/1476-4598-12-86>
9. Orel L, Neumeier H, Hochrainer K, Binder BR, Schmid JA. Crosstalk between the NF-kappaB activating IKK-complex and the CSN signalosome, *J Cell Mol Med* 2010, Vol. 14: 1555-1568, <https://doi.org/10.1111/j.1582-4934.2009.00866.x>
10. Ebner K, Bandion A, Binder BR, de Martin R, Schmid JA. GM-CSF activates NF-kappaB via direct interaction of the GM-CSF receptor with I kappa B kinase beta, *Blood* 2003, Vol. 102: 192-199, <https://doi.org/10.1182/blood-2002-12-3753>

Further achievements

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| 03/2010 | Guest professorship: University of Salzburg, Austria, March 2010 |
| 04/2010 | Guest professorship: National University of Science and Technology, Islamabad, Pakistan, April 2010 |
| 1994 | Theodor-Körner-Award for natural sciences. |
| 1989 | Award of a scholarship for outstanding performance at the university. |
| Editorial board memberships: | <ul style="list-style-type: none"> • Associate Editor of the journal <i>Molecular Cancer</i> (IF: 27.4) • Section Editor of the journal <i>Cells</i> (Section: Cell signaling IF: 6.6) • Section Editor of <i>Frontiers in Cardiovascular Medicine</i>, section: Atherosclerosis and Vascular Medicine (IF: 6.05). • Editorial Board Member of <i>Atherosclerosis</i> (IF 5.16) |