

Curriculum Vitae

Michael Kracht Professor, Dr. med.
d.o.b. July 30th, 1962, in Braunschweig, Germany

University Education

2007 Specialist for Pharmacology and Toxicology
2002 Apl. Professorship, Hannover Medical School
1999 Habilitation Molecular Pharmacology, Hannover Medical School
1989 Doctorate Medicine, Hannover Medical School
1981–1988 Studies of Medicine, Hannover Medical School

Scientific Career

Since 2020 Project leader in the Research Training Group GRK 2573/1 The inflammatory tumor secretome – from understanding to novel therapies, Marburg
Since 2019 Faculty member of the excellence cluster Cardio-Pulmonary Institute (CPI), Giessen
2018-2020 Board member of the Deutsche Gesellschaft für experimentelle und klinische Pharmakologie und Toxikologie e.V. (DGPT)
Since 2018 Member of the International Max Planck Research School for Heart and Lung Research (IMPRS-HLR Faculty), Bad Nauheim
Since 2016 Project leader in the DFG Clinical Research Group KFO 309 Virus-induced Lung Injury: Pathobiology and Novel Therapeutic Strategies, Giessen
Since 2016 Project leader in the DFG Collaborative Research Center SFB 1213 Pulmonary Hypertension and Cor Pulmonale, Giessen
Since 2013 Project leader in the DFG Collaborative Research Center SFB 1021 RNA viruses: RNA metabolism, host response and pathogenesis, Marburg
Since 2011 Member of Deutsches Zentrum für Lungenforschung (DZL)
Since 2010 Project leader in the DFG Collaborative Research Center TRR 81 Chromatin Changes in Differentiation and Malignancies, Giessen
Since 2010 Faculty member of UGMLC Universities of Giessen and Marburg Lung Center
Since 2009 Faculty member of ECCPS Excellence Cluster Cardio-Pulmonary System, Giessen
Since 2007 W3 Professorship for Pharmacology and Toxicology and Managing Director of the Rudolf Buchheim Institute of Pharmacology of the Justus Liebig University Giessen
2005 Professorship W2 for Molecular mechanisms of cytokine-mediated gene regulation at the Hannover Medical School (MHH)
Since 1998 Member of Signal Transduction Society (STS)
Since 1998 Member of Deutsche Gesellschaft für Immunologie (DGFI)
Since 1996 Member of Deutsche Gesellschaft für experimentelle und klinische Pharmakologie und Toxikologie e.V. (DGPT)
1995-2005 Academic Assistant and group leader at the Institute of Pharmacology, MHH
1992-1995 Post-doc as part of a Wellcome European Travelling Fellowship in the laboratory of Dr. J. Saklatvala, Strangeways Research Laboratory, Cambridge and AFRC Babraham Institute, Babraham, Great Britain
1990-1992 Post-Doc as a part of a DFG Post-doc scholarship in the working group of Prof. Dr. med. Marta Szamel at the Institute of Molecular Pharmacology, MHH
1988-1990 Doctor in internship and later assistance doctor at the hospital for Unfall-, Gefäß- und Abdominalchirurgie, Städtisches Krankenhaus Siloah, Hannover

Awards and Honors

2008 Genomic Pioneer Award, awarded on 30.09.2008 by Ocimum Biosolutions at HUGO's International Human Genome Meeting held at Hyderabad, India
2008 Dolph Adams award of the Journal of Leukocyte Biology for the most highly cited review article of years 2002-2007

1998 Young Investigator Award 1998, 1. price, International Cytokine Society on the occasion of the "Second Joint Meeting of the International Cytokine Society (ICS) and the International Society for Interferon and Cytokine Research (ISICR)", Jerusalem, Israel

Citation Record

Total citations: 14,145; h-index: 58; h-index since 2017: 34 (Google Scholar September 26th, 2022)

Top-10 selected Publications

Shaban MS, Mayr-Buro C, Meier-Soelch J, Albert BV, Schmitz ML, Ziebuhr J, **Kracht M**. Thapsigargin: key to new host-directed coronavirus antivirals? **Trends Pharmacol Sci** 2022, 43:557-568. doi: [10.1016/j.tips.2022.04.004](https://doi.org/10.1016/j.tips.2022.04.004).

Mansouri S, Heylmann D, Stiewe T, **Kracht M**, Savai R. Cancer genome and tumor microenvironment: Reciprocal crosstalk shapes lung cancer plasticity. **Elife** 2022, 11. doi: [10.7554/eLife.79895](https://doi.org/10.7554/eLife.79895).

Shaban MS, Muller C, Mayr-Buro C, Weiser H, Meier-Soelch J, Albert BV, Weber A, Linne U, Hain T, Babayev I, Karl N, Hofmann N, Becker S, Herold S, Schmitz ML, Ziebuhr J, **Kracht M**. Multi-level inhibition of coronavirus replication by chemical ER stress. **Nat Commun** 2021, 12:5536. doi: [10.1038/s41467-021-25551-1](https://doi.org/10.1038/s41467-021-25551-1).

Meier-Soelch J, Mayr-Buro C, Juli J, Leib L, Linne U, Dreute J, Papantonis A, Schmitz ML, **Kracht M**. Monitoring the Levels of Cellular NF- κ B Activation States. **Cancers** 2021, 13(21), 5351. doi: [10.3390/cancers13215351](https://doi.org/10.3390/cancers13215351).

Weiterer SS, Meier-Soelch J, Georgomanolis T, Mizi A, Beyerlein A, Weiser H, Brant L, Mayr-Buro C, Jurida L, Beuerlein K, Muller H, Weber A, Tenekeci U, Dittrich-Breiholz O, Bartkuhn M, Nist A, Stiewe T, van IWF, Riedlinger T, Schmitz ML, Papantonis A, **Kracht M**. Distinct IL-1 α -responsive enhancers promote acute and coordinated changes in chromatin topology in a hierarchical manner. **EMBO J** 2020, 39:e101533. doi: [10.15252/embj.2019101533](https://doi.org/10.15252/embj.2019101533).

Weber A, Dam S, Saul VV, Kuznetsova I, Muller C, Fritz-Wolf K, Becker K, Linne U, Gu H, Stokes MP, Pleschka S, **Kracht M**, Schmitz ML. Phosphoproteome Analysis of Cells Infected with Adapted and Nonadapted Influenza A Virus Reveals Novel Pro- and Antiviral Signaling Networks. **J Virol** 2019, 93. doi: [10.1128/JVI.00528-19](https://doi.org/10.1128/JVI.00528-19).

Kracht M, Muller-Ladner U, Schmitz ML. Mutual regulation of metabolic processes and proinflammatory NF- κ B signaling. **J Allergy Clin Immunol** 2020, 146:694-705. doi: [10.1016/j.jaci.2020.07.027](https://doi.org/10.1016/j.jaci.2020.07.027).

Mayr-Buro C, Schlereth E, Beuerlein K, Tenekeci U, Meier-Soelch J, Schmitz ML, **Kracht M**. Single-Cell Analysis of Multiple Steps of Dynamic NF- κ B Regulation in Interleukin-1 α -Triggered Tumor Cells Using Proximity Ligation Assays. **Cancers (Basel)** 2019, 11. doi: [10.3390/cancers11081199](https://doi.org/10.3390/cancers11081199).

Meier-Soelch J, Jurida L, Weber A, Newel D, Kim J, Braun T, Schmitz ML, **Kracht M**. RNAi-Based Identification of Gene-Specific Nuclear Cofactor Networks Regulating Interleukin-1 Target Genes. **Frontiers in Immunology** 2018, 9. doi: [10.3389/fimmu.2018.00775](https://doi.org/10.3389/fimmu.2018.00775).

Poppe M, Wittig S, Jurida L, Bartkuhn M, Wilhelm J, Muller H, Beuerlein K, Karl N, Bhuju S, Ziebuhr J, Schmitz ML, **Kracht M**. The NF- κ B-dependent and -independent transcriptome and chromatin landscapes of human coronavirus 229E-infected cells. **PLoS Pathog** 2017, 13:e1006286. doi: [10.1371/journal.ppat.1006286](https://doi.org/10.1371/journal.ppat.1006286).