

Curriculum Vitae

Gerald Burgstaller Dr. rer. nat.

d.o.b. Nov 15, 1972, in Schwarzach im Pongau, Austria

University Education

2005 University of Salzburg, Cellular Biochemistry, Dr. rer. nat.

2002 University of Salzburg, Cellular Biochemistry, Mag. rer. nat.

Scientific Career

2016-present Principal Investigator / Head of Imaging Core Unit, Helmholtz München, CPC, Institute Lung Health and Immunity (LHI)

Since 2017 PI in German Center of Lung Research (DZL)

2014-2016 Staff Scientist & Head of Imaging Core Unit, Helmholtz München, CPC, Institute for Lung Biology and Disease (ILBD)

2010-2014 Senior Postdoctoral Fellow / Head of Imaging Core Unit, Helmholtz München, CPC, Institute for Lung Biology and Disease (ILBD) Eickelberg Lab

2009 - 2010 Senior Postdoctoral Fellow, HMGU, Institute of Clinical Molecular Biology and Tumor Genetics

2005-2009 Postdoctoral Fellow, University of Vienna, Max-Perutz Laboratories, Prof. Gerhard Wiche Lab

2005 Postgraduate Fellow, University of Salzburg, Department of Cell Biology

2002 - 2005 Postgraduate Fellow, Austrian Academy of Sciences, Institute of Molecular Biotechnology, Dr. Vic Small / Dr. Mario Gimona Lab

Patents

"Novel anti-fibrotic drugs" PCT/EP2022/065773. Applicant: Helmholtz Munich. Priority application: EP21178481.4. Priority date: 09.06.2021.

Citation Record

Total citations: 2204; h-index:20; h-index since 2017: 18 (Google Scholar September 26th, 2022)

Top-10 selected Publications

Gerckens M, Schorpp K, Pelizza F, Wögrath M, Reichau K, Ma H, Dworsky AM, Sengupta A, Stoleriu MG, Heinzlmann K, Merl-Pham J, Irmeler M, Alsafadi HN, Trenkenschuh E, Sarnova L, Jirouskova M, Frieß W, Hauck SM, Beckers J, Kneidinger N, Behr J, Hilgendorff A, Hadian K, Lindner M, Königshoff M, Eickelberg O, Gregor M, Plettenburg O, Yildirim AÖ, **Burgstaller G**. Phenotypic drug screening in a human fibrosis model identified a novel class of antifibrotic therapeutics. **Sci Adv**. 2021 Dec 24;7(52):eabb3673. doi: 10.1126/sciadv.abb3673. Epub 2021 Dec 22. PMID: 34936468; PMCID: PMC8694600.

Günes Günsel G, Conlon TM, Jeridi A, Kim R, Ertüz Z, Lang NJ, Ansari M, Novikova M, Jiang D, Strunz M, Gaianova M, Hollauer C, Gabriel C, Angelidis I, Doll S, Pestoni JC, Edelmann SL, Kohlhepp MS, Guillot A, Bassler K, Van Eeckhoutte HP, Kayalar Ö, Konyalilar N, Kanashova T, Rodius S, Ballester-López C, Genes Robles CM, Smirnova N, Rehberg M, Agarwal C, Krikki I, Piavaux B, Verleden SE, Vanaudenaerde B, Königshoff M, Dittmar G, Bracke KR, Schultze JL, Watz H, Eickelberg O, Stoeger T, **Burgstaller G**, Tacke F, Heissmeyer V, Rinkevich Y, Bayram H, Schiller HB, Conrad M, Schneider R, Yildirim AÖ. The arginine methyltransferase PRMT7 promotes extravasation of monocytes resulting in tissue injury in COPD. **Nat Commun**. 2022 Mar 14;13(1):1303. doi: 10.1038/s41467-022-28809-4. PMID: 35288557; PMCID: PMC8921220.

Baldassi D, Ambike S, Feuerherd M, Cheng CC, Peeler DJ, Feldmann DP, Porras-Gonzalez DL, Wei X, Keller LA, Kneidinger N, Stoleriu MG, Popp A, **Burgstaller G**, Pun SH, Michler T, Merkel OM. Inhibition of SARS-CoV-2 replication in the lung with siRNA/VIPER polyplexes. **J Control Release**. 2022 May;345:661-674. doi: 10.1016/j.jconrel.2022.03.051. Epub 2022 Mar 29. PMID: 35364120; PMCID: PMC8963978.

Ambike S, Cheng CC, Feuerherd M, Velkov S, Baldassi D, Afridi SQ, Porras-Gonzalez D, Wei X, Hagen P, Kneidinger N, Stoleriu MG, Grass V, **Burgstaller G**, Pichlmair A, Merkel OM, Ko C, Michler T. Targeting genomic SARS-CoV-2 RNA with siRNAs allows efficient inhibition of viral replication and spread. **Nucleic Acids Res**. 2022 Jan 11;50(1):333-349. doi: 10.1093/nar/gkab1248. PMID: 34928377; PMCID: PMC8754636.

Conlon TM, John-Schuster G, Heide D, Pfister D, Lehmann M, Hu Y, Ertüz Z, Lopez MA, Ansari M, Strunz M, Mayr C, Angelidis I, Ciminieri C, Costa R, Kohlhepp MS, Guillot A, Günes G, Jeridi A, Funk MC, Beroshvili G, Prokosch S, Hetzer J, Verleden SE, Alsafadi H, Lindner M, **Burgstaller G**, Becker L, Irmeler M, Dudek M, Janzen J, Goffin E, Gosens R, Knolle P, Pirotte B, Stoeger T, Beckers J, Wagner D, Singh I, Theis FJ, de Angelis MH, O'Connor T, Tacke F, Boutros M, Dejardin E, Eickelberg O, Schiller HB, Königshoff M, Heikenwalder M, Yildirim AÖ. Inhibition of LT β R signalling activates WNT-induced regeneration in lung. **Nature**. 2020 Dec;588(7836):151-156. doi: 10.1038/s41586-020-2882-8. Epub 2020 Nov 4. Erratum in: *Nature*. 2021 Jan;589(7842):E6. PMID: 33149305; PMCID: PMC7718297.

Erben A, Hörning M, Hartmann B, Becke T, Eisler SA, Southan A, Cranz S, Hayden O, Kneidinger N, Königshoff M, Lindner M, Tovar GEM, **Burgstaller G**, Clausen-Schaumann H, Sudhop S, Heymann M. Precision 3D-Printed Cell Scaffolds Mimicking Native Tissue Composition and Mechanics. **Adv Healthc Mater**. 2020 Dec;9(24):e2000918. doi: 10.1002/adhm.202000918. Epub 2020 Oct 7. PMID: 33025765.

Sun N, Fernandez IE, Wei M, Witting M, Aichler M, Feuchtinger A, **Burgstaller G**, Verleden SE, Schmitt-Kopplin P, Eickelberg O, Walch A. Pharmacometabolic response to pirfenidone in pulmonary fibrosis detected by MALDI-FTICR-MSI. **Eur Respir J**. 2018 Sep 15;52(3):1702314. doi: 10.1183/13993003.02314-2017. PMID: 30072508.

Yang L, Feuchtinger A, Möller W, Ding Y, Kutschke D, Möller G, Schittny JC, **Burgstaller G**, Hofmann W, Stoeger T, Daniel Razansky, Walch A, Schmid O. Three-Dimensional Quantitative Co-Mapping of Pulmonary Morphology and Nanoparticle Distribution with Cellular Resolution in Nondissected Murine Lungs. **ACS Nano**. 2019 Feb 26;13(2):1029-1041. doi: 10.1021/acsnano.8b07524. Epub 2019 Jan 14. PMID: 30566327.

Burgstaller G, Oehrle B, Gerckens M, White ES, Schiller HB, Eickelberg O. The instructive extracellular matrix of the lung: basic composition and alterations in chronic lung disease. **Eur Respir J**. 2017 Jul 5;50(1):1601805. doi: 10.1183/13993003.01805-2016. PMID: 28679607.

Schiller HB, Fernandez IE, **Burgstaller G**, Schaab C, Scheltema RA, Schwarzmayer T, Strom TM, Eickelberg O, Mann M. Time- and compartment-resolved proteome profiling of the extracellular niche in lung injury and repair. **Mol Syst Biol**. 2015 Jul 14;11(7):819. doi: 10.15252/msb.20156123. PMID: 26174933; PMCID: PMC4547847.