

Curriculum Vitae

Susanne Krauss-Etschmann Professor, Dr. med.

Current position Deputy Director Research Center Borstel
Director Priority Area Chronic Lung Diseases
Head, Division of "Early Life Origins of Chronic Lung Disease"
Chair Experimental Asthma Research, CAU Kiel

University Education

1988 Doctorate Medicine, Ludwig-Maximilians University Munich, Germany
1984 - 1987 Studies of Medicine, Ludwig-Maximilians University Munich
1983 - 1984 Faculté de Médecine Cochin Port-Royal, Académie De Paris, Université René Descartes, France
1981 - 1983 Studies of Medicine, Ludwig-Maximilians University Munich

Scientific Career

Since 4/2021 Deputy Head Research Center Borstel, Leibniz Lung Center
Since 10/2020 Speaker EAACI Task Force "MicroRNAs in allergy and asthma"
Since 7/2020 Deputy Speaker Leibniz Research Alliance "Health Technologies"
Since 2/2019 Coordinator Basic Research within "Disease Area Asthma and Allergies"
Since 2/2018 German Center for Lung Research
Member of Directors Board Airway Research Center North (ARCN)
12/2017- 2018 Secretary ERS Task Force "MicroRNAs in allergy and asthma"
Since 4/2017 Director Priority Area Chronic Lung Diseases Research Center Borstel, Leibniz Lung Center
2017 Sino-German Society for Science: Symposium "(Organizer)
Since 2016 Leibniz Science Campus "Evolutionary Medicine of the Lung". Subproject PI Subproject "Host genetics and Lung microbiota".
Since 2016 Speaker Competence Area "Biomarker" Leibniz Health Technologies
2015 - 2027 Deputy Director Priority Area Asthma and Allergies Research Center Borstel
2015- 2018 Co-PI of the LRA Health Technologies joint project EXASENS to identify biomarkers for COPD
Since 2015 Principal Investigator "The lung Microbiota at the Interface between airway epithelium and the environment (Budget 1.2Mio€)
Since 2014 Full professor "Experimental Asthma Research, Research Center Borstel and University of Kiel
Since 2013 Principal Investigator German Center for Lung Research
2012 - 2016 Chair of European COST Action BM1201 "Developmental Origins of Chronic Lung Disease"
2010 - 2014 Head Research Group „Developmental Origins of Respiratory Disease“, Comprehensive Pneumology Center, Helmholtz Center Munich
2006 Habilitation Pediatrics, Ludwig-Maximilians University Munich
2004 Consultant specialist Immunology (DGFI)
2000 Consultant specialist Pediatrics

Reviewer Activities

DFG; Helmholtz Impulsfonds for Women professorships; Elitestudien Erlangen „Integrated Immunology Netherlands Asthma Foundation; Medical Research Council UK; Mildred Scheel Stiftung; NRW Rückkehrer Stipendium; Förderprogramm für Forschung und Lehre der Ludwig-Maximilians Universität; Fondazione CARIPO; Von Behring Röntgen Stiftung;

Reviewing Panel

American Journal of Respiratory Critical Care Medicine/ American Journal of Respiratory Cell and Molecular Biology/ BMC Immunology; British Journal of Nutrition/ Clinical and Experimental Allergy/ Clinical and Molecular Allergy/ Clinical Immunology/ Clinical Nutrition/ International Archives of Allergy and Immunology/ European Respiratory Journal/ FEMS Immunology and Medical Microbiology/ International Archives of Allergy and Immunology/ Journal of Immunological Methods/ Journal of Allergy and Clinical Immunology/ Journal of Molecular Medicine / Nanotoxicology/ Nutrition Research/ Pediatric Research/ PLoS One/ Results in Immunology/ Scientific Reports/ Thorax/ Tissue Antigens

10 Publications

S. Stanelle-Bertram, S. Beck, N. K. Mounogou, B.Schaumburg, F. Stoll, A. Al Jawazneh, Z. Schmal, T. Bai, M. Zickler, G. Beythien, K. Becker, M. de la Roi, F. Heinrich, C. Schulz, M. Sauter, S.Krasemann, P. Lange, A. Heinemann, D. van Riel, L. Leijten, L. Bauer, Th. P.P. van den Bosch, B. Lopuhaä, T. Busche, D.Wibberg, D. Schaudien, T. Goldmann, A. Lüttjohann, J. Ruschinski, H. Jania, Z. Müller, V. P. dos Reis, V. Krupp-Buzimkic, M. Wolff, C. Fallerini, M. Baldassarri, S. Furini, K. Norwood, C. Käufer, N. Schützenmeister, M. von Köckritz-Blickwede, M. Schroeder, D. Jarczak, A. Nierhaus, T. Welte, S.Kluge, A. C. McHardy, F. Sommer, J. Kalinowski, S. Krauss-Etschmann, F. Richter, J. von der Thüsen, W. Baumgärtner, K.Klingel, B. Ondruschka, GEN-COVID Multicenter Study , A. Renierand Gülsah Gabriel. CYP19A1 mediates severe SARS-CoV-2 disease outcome in males. *Cell Rep Med.* 2023 PMID: 37572667, IF 17

J. Chen, X. Wang, A. Schmalen, S., M., H. Ma, H. Zhang, M. G. Stoleriu, J.Nowak, M. Nakayama, M.Bueno, J. Brands, Ana L, J.S. Lee, S. Krauss-Etschmann, A.Dmitrieva, M.Frankenberger, T.P. Hofer, E. Noessner, A. Moosmann, J. Behr, K. Milger, C. A. Deeg, C.A. Staab-Weijnitz, S. M. Hauck, H. Adler, T. Goldmann, K. I. Gaede, J. Behrends, Ilona E. Kammerl, S. Meiners. Antiviral CD8+ T cell immune responses are impaired by cigarette smoke and in COPD *Eur Respir J.* 2023. PMID: 37385655, IF 33.8

H. Angstmann, S. Pfeiffer, S. Kublik, B. Ehrhardt, K. Uliczka, K.F. Rabe, Th. Roeder, C. Wagner, M. Schloter, S. Krauss-Etschmann. The microbial composition of larval airways from *Drosophila melanogaster* differ between specimens from laboratory and natural habitats. *Environmental Microbiome*, 18(1):55. PMID: 37370177, IF 7.8

Bossen J, Prange R, Kühle JP, Künzel S, Niu X, Hammel JU, Krieger L, Knop M, Ehrhardt B, Uliczka K, Krauss-Etschmann S, Roeder T. Adult and Larval Tracheal Systems Exhibit Different Molecular Architectures in *Drosophila*. *Int J Mol Sci.* 2023 Mar 15;24(6):5628. PMID: 36982710, IF 6.2

Shin H, Morty RE, Sucre JM, Negretti NM, Markmann M, Hossain H, Krauss-Etschmann S, Dehmel S, Hilgendorff A. Reference genes for the developing mouse lung under consideration of biological, technical and experimental confounders. *Sci Rep.* 2022 Oct 21;12(1):17679. PMID: 36271035, IF 5.0

Sirocko KT, Angstmann H, Papenmeier S, Wagner C, Spohn M, Indenbirken D, Ehrhardt B, Kovacevic D, Hammer B, Svanes C, Rabe KF, Roeder T, Uliczka K, Krauss-Etschmann S. Early-life exposure to tobacco smoke alters airway signaling pathways and later mortality in *D. melanogaster*. *Environ Pollut.* 2022, PMID: 35780997, IF 10.0

S. Pfeiffer, G. Jatzlauk, J.V. Lund, E. Boateng E, D. Kovacevic, M. Hylkema, S. Bartel, M. Schloter, S. Krauss-Etschmann. Oral application of vancomycin alters murine lung microbiome and pulmonary immune responses. *Immun Inflamm Dis.* 2022 Aug;10(8), PMID: 35894712, IF 7.3

S. Dehmel, K. J. Weiss, N. El-Merhie, J. Callegari, B. Konrad, K. Mutze, O. Eickelberg, M. Königshoff, S. Krauss-Etschman. microRNA Expression Profile of Purified Alveolar Epithelial Type II Cells. *Genes* 2022, 13(8), 1420; open access, PMID: 36011331, IF 12.9

Zissler, Ulrich; Jakwerth, Constanze; Chaker, Adam; Guerth, Ferdinand; Oelsner, Madlen; Pechtold, Lisa; zur Bonsen, Lynn; Ullmann, Julia; Krauss-Etschmann, Susanne; Erb, Anna; Kau, Josephine; Plaschke, Mirjam; Winkler, Marlene; Kurz, Alexandra; Kloss, Antonia; Esser-von-bieren, Julia; Schmidt-Weber, Carsten. Sputum microRNA-screening reveals Prostaglandin EP3 receptor as selective target in allergen-specific immunotherapy. *Clin Exp Allergy* (accepted), PMID: 34514658, IF 5.4

Jacobsen H, Walendy-Gnirß K, Tekin-Bubenheim N, Kouassi NM, Ben-Batalla I, Berenbrok N, Wolff M, Dos Reis VP, Zickler M, Scholl L, Gries A, Jania H, Kloetgen A, Düsedau A, Pilnitz-Stolze G, Jeridi A, Yildirim AÖ, Fuchs H, Gailus-Durner V, Stoeger C, de Angelis MH, Manuylova T, Klingel K, Culley FJ, Behrends J, Loges S, Schneider B, Krauss-Etschmann S, Openshaw P, Gabriel G. Offspring born to influenza A virus infected pregnant mice have increased susceptibility to viral and bacterial infections in early life. *Nat Commun.* 2021 Aug 16;12(1):4957. PMID: 34400653, IF 17.7