

Benjamin Seeliger Privatdozent, Dr. med.
d.o.b. December 12th, 1989

Current Position Attending Physician-Scientist, Respiratory and Intensive Care Medicine, Co-Chair Interstitial Lung Disease Unit

University Education

2008-2015 Medical School (University of Jena; University of Zurich and University of Oxford)
2015 Medical License Germany (Approbation)
2017 M.D.-Thesis (Dr. med) - *Efficacy of Interferon- α in Eosinophilic Granulomatosis with Polyangiitis and its immunological implications.* (Magna cum laude). Supervision by Prof. C Kroegel.
2019-2020 Certificate of medical didactical qualification (MQ I & II)
2023 Venia Legendi („Habilitation“) for Internal Medicine and Respiratory Medicine: *“Distinctive Types of the Acute Respiratory Distress Syndrome and implications for the use of veno-venous Extracorporeal membrane oxygenation”*
2022 Board Certification Internal Medicine and Pulmonology
2023 Board Certification Intensive Care Medicine

Academic and Scientific career

2015 University of Oxford: Assistance in the Diagnostic and Classification Criteria in Systemic Vasculitis Study (DCVAS). Supervision by Prof RA Luqmani.
2015-2022 Medical Residency at MHH Department of Respiratory Medicine (Head of Department: Prof T Welte)
2019-2022 *Scholar of the Clinician Scientist Programme of Hannover Medical School (PRACTIS). Supervision by Prof. T Welte and Prof. A Prasse*
Since 2019 *Setup of the DZL Sepsis and ARDS Cohort (SPARE 14)*
2022-2023 Fellow Respiratory Medicine and Intensive Care Medicine, MHH
Since 2022 Principal Investigator Deutsches Zentrum für Lungenforschung (DZL) Disease Area: Pneumonia / Acute Lung Injury

Awards

2022 Research Award “Intensive Care Medicine” (Deutsche Gesellschaft für Internistische Intensivmedizin)

Additional professional activities

2009-today Member European Respiratory Society (ERS) and German Respiratory Society (ERS), European Society of Intensive Care Medicine (ESICM)
2023 Editorial Board Pneumonews

Scientific focus Acute Respiratory distress syndrome, intensive care medicine, interstitial lung diseases, rapid-progressive ILDs, Connective-tissue-disease associated ILD, extracorporeal cardiocirculatory support

Citation Record Total citations (Google Scholar; 12.04.2024): 1625; h-index 22, i10-index 37

Top 10 Selected Publications

Ostermann L*, **Seeliger B***, David S, Flasche C, Maus R, Reinboth MS, Christmann M, Neumann K, Brand K, Seltmann S, Bühling F, Paton JC, Roth J, Vogl T, Viemann D, Welte T, Maus UA. S100A9 is indispensable for survival of pneumococcal pneumonia in mice. *Plos Pathogens* 2023 (I) IF 2021: 7.464

Karagiannis F, Peukert K, Surace L, Michla M, Fox M, Weiss P, Feuerborn C, Schulz S, Al B, **Seeliger B**, Welte T, David S, Grondman I, de Nooijer A, Pickkers P, Berger M, Brenner T, Putensen C, Garbi N, Netea M, Placek K, Bode C, Wilhelm C. The Ketone Body β -hydroxybutyrate metabolically restores T cell function in severe COVID-19. *Nature* 2022 Jul (IF 2021: 69.504)

Ackermann M, Kamp JC, Werlein C, Walsh CL, Stark H, Prade V, Surabattula R, Wagner WL, Disney C, Bodey AJ, Illig T, Leeming DJ, Karsdal MA, Tzankov A, Boor P, Kühnel MP, Länger FP, Verleden SE, Kvasnicka, HM, Kreipe HH, Haverich A, Black SM, Walch A, Tafforeau P, Lee PD, Hoepfer MM, Welte T, **Seeliger B**, David S, Schuppan D, Mentzer SJ, Jonigk DD. The fatal trajectory of pulmonary COVID-19 is driven by lobular ischemia and fibrotic remodelling. *EBioMedicine* 2022 Nov;85:104296. [IF 2021: 11.205]

Seeliger B*, Doeblner M*, Hofmaenner DA*, Wendel-Garcia PD, Schuepbach RA, Schmidt JJ, Welte T, Hoepfer MM, Gillmann HJ, Kuehn C, Ehrentraut SF, Schewe JC, Putensen C, Stahl K, Bode C, David S. Intracranial hemorrhages on extracorporeal membrane oxygenation: differences between coronavirus disease 2019 and other viral acute respiratory distress syndrome. *Crit Care Med.* 2022 Jun 1;50(6):e526-e538. (IF 2021: 9.296)

Hofmaenner DA, Furfaro D, Wild LC, Wendel Garcia PD, Baedorf Kassis E, Pannu A, Erlebach R, Stahl K, Grandin EW, Putensen C, Shaefi S, David S, **Seeliger B***, Bode C*. Reduced anticoagulation strategy is associated with a lower incidence of intracerebral hemorrhage in COVID-19 patients on extracorporeal membrane oxygenation. *Intensive Care Medicine Experimental* 2023. 2023 Jun 12;11(1):38.

Kayser MZ*, **Seeliger B***, Valtin C, Ziesing S, Welte T, Pletz MW, Chhatwal P, Gottlieb J. Clinical decision making is improved by rapid multiplex-PCR in suspected lower respiratory tract infection after lung transplantation. *Transpl Infect Dis.* 2022 Feb;24(1):e13725. (IF 2020: 2.228)

Jaeger B*, **Seeliger B***, Terwolbeck O, Müller M, Warnecke G, Welte T, Bode C, Prasse A. The NLRP3-inflammasome-caspase-1 pathway is upregulated in idiopathic pulmonary fibrosis and acute exacerbations and is inducible by apoptotic A549 cells. *Front Immunol.* 2021 Apr 23;12:642855. (IF 8.786)

Garg A*, **Seeliger B***, Derda AA*, Xiao K, Scherf K, Pink I, Hoepfer MM, Welte T, Bauersachs J, David S, Bär C, Thum T. Cardiovascular microRNA signatures in the blood of SARS-CoV2-infected patients. *European Journal of Heart Failure.* 2021;23:468–475. (IF 2021: 17.349)

Seeliger B*, Döbler M*, Friedrich R, Stahl K, Kühn C, Bauersachs J, Steinhagen F, Ehrentraut S, Schewe JC, Putensen C, Welte T, Hoepfer MM, David S, Bode C. Comparison of anticoagulation strategies for veno-venous ECMO support in acute respiratory failure: a retrospective comparative cohort study. *Critical Care.* 2021 Jan 4;24(1):701. (IF 2021: 19.346)

Seeliger B*, Stahl K*, Schenk H, Schmidt JJ, Wiesner O, Welte T, Kuehn C, Bauersachs J, Hoepfer MM, David S. Extracorporeal membrane oxygenation for severe ARDS due to immune diffuse alveolar haemorrhage: a retrospective observational study. *Chest.* 2020 Mar;157(3):744-747. (IF 2020: 9.410)