

Curriculum Vitae Prof. Dr. Dr. Sören L. Becker

Personal Data

Title	Prof. Dr. med. Dr. phil.
First name	Sören Leif
Name	Becker
Current position	Director, Institute of Medical Microbiology and Hygiene
Current institution(s)/site(s), country	Institute of Medical Microbiology and Hygiene, Saarland University, Homburg, Germany
Identifiers/ORCID	0000-0003-3634-8802

Qualifications and Career

Stages	Periods and Details
Degree programme	<ul style="list-style-type: none"> • Infectious disease epidemiology (postgraduate), 2012–2015, University of Basel, Switzerland • License to practice medicine, 2012, Regierungspräsidium Stuttgart, Germany • Medicine, 2004–2011, University of Freiburg and Università Cattolica del Sacro Cuore, Rome, Italy
Doctorate	<ul style="list-style-type: none"> • 2015: Prof. Dr. Jürg Utzinger, University of Basel, Switzerland • 2011: Prof. Dr. Winfried V. Kern, University of Freiburg, Germany
Stages of academic/professional career	<ul style="list-style-type: none"> • 2022: Board certification (“Zusatzweiterbildung”) in Infectious Diseases and Tropical Medicine • 2018–: Professor (W2) and Director of the Institute of Medical Microbiology and Hygiene, Saarland University, Homburg, Germany • 2018–: Postdoctoral research fellow, Swiss Tropical and Public Health Institute, Basel, Switzerland • 2018: Habilitation in Medical Microbiology • 2017: Board certification (“Facharzt”) in Medical Microbiology, Virology and Infectious Disease Epidemiology • 2014: Diploma in Tropical Medicine and Hygiene, University of Alabama, USA and Institute of Tropical Medicine, Lima, Peru • 2012–2018: Research fellow, Swiss Tropical and Public Health Institute, Basel, Switzerland • 2012–2016: Resident physician, Saarland University Medical Center, Homburg, Germany

Supplementary Career Information

N/A

Engagement in the Research System

- 2023–2025: Member of the „Control and Review Committees for the Second Section of the Medical Examination“, Institute for Medical and Pharmaceutical Examination Questions
- 2022–: Dean of Studies, Medical Faculty, Saarland University

Scientific evaluator for the Swiss National Science Foundation (SNSF), German Federal Ministry of Education and Research (BMBF), Oxford Berlin University Alliance for Global Health, New Frontiers in Research Fund Canada, German Academic Exchange Service (DAAD), German Society for International Cooperation (GIZ)

Supervision of Researchers in Early Career Phases

- Medical doctoral thesis students: 15
- PhD students (Dr. rer. nat.): 3
- Further PhD students (e.g. Dr. rer. med.): 1
- Postdocs: 2

Scientific Results

Category A

- Dal-Ré, R.*; **Becker, S. L.**; Launay, O.; Pavli, A. Vaccine Certificates for International Travelers in Future Pandemics. *Eur J Clin Microbiol Infect Dis* **2023**, *42* (2), 227–228. <https://doi.org/10.1007/s10096-022-04544-y>. (OA)
- Klemis, V.; Schmidt, T.; Schub, D.; Mihm, J.; Marx, S.; Abu-Omar, A.; Ziegler, L.; Hielscher, F.; Guckelmuß, C.; Urschel, R.; Wagenpfeil, S.; Schneitler, S.; **Becker, S. L.**; Gärtner, B. C.; Sester, U.; Sester, M.* Comparative Immunogenicity and Reactogenicity of Heterologous ChAdOx1-NCoV-19-Priming and BNT162b2 or mRNA-1273-Boosting with Homologous COVID-19 Vaccine Regimens. *Nat Commun* **2022**, *13* (1), 4710. <https://doi.org/10.1038/s41467-022-32321-0>. (OA)
- Dal-Ré, R.*; **Becker, S. L.**; Bottieau, E.; Holm, S. Availability of Oral Antivirals against SARS-CoV-2 Infection and the Requirement for an Ethical Prescribing Approach. *The Lancet Infect Diseases* **2022**, *22* (8), e231–e238. [https://doi.org/10.1016/S1473-3099\(22\)00119-0](https://doi.org/10.1016/S1473-3099(22)00119-0). (OA)
- Rehner, J., Schmartz, G. P., Groeger, L., Dastbaz, J., Ludwig, N., Hannig, M., Rupf, S., Seitz, B., Flockerzi, E., Berger, T., Reichert, M.C., Krawczyk, M., Meese, E., Herr, C., Bals, R.*, **Becker, S.L.***, Keller, A.*, Müller, R.*; IMAGINE Consortium. Systematic Cross-biospecimen Evaluation of DNA Extraction Kits for Long- and Short-read Multi-metagenomic Sequencing Studies. *Genomics Proteomics Bioinformatics*. **2022**;20 (2), 405-417. <https://doi.org/10.1016/j.gpb.2022.05.006>.
- Schneitler, S.; Gülker, J.; Alhussein, F.; Bub, F.; Halfmann, A.; Klein, L.; Roth, S.; Jung, P.; **Becker, S. L.*** Experiences with Pre-Travel Diagnostic PCR Testing for SARS-CoV-2: Challenges and Opportunities. *Journal of Travel Medicine* **2021**, *28* (7), taab116. <https://doi.org/10.1093/jtm/taab116>. (OA)

- Schmidt, T.; Klemis, V.; Schub, D.; Mihm, J.; Hielscher, F.; Marx, S.; Abu-Omar, A.; Ziegler, L.; Guckelmus, C.; Urschel, R.; Schneitler, S.; **Becker, S. L.**; Gärtner, B. C.; Sester, U.; Sester, M.* Immunogenicity and Reactogenicity of Heterologous ChAdOx1 NCoV-19/MRNA Vaccination. *Nat Med* **2021**, 27 (9), 1530–1535. <https://doi.org/10.1038/s41591-021-01464-w>. (OA)
- Kühn, D.; Metz, C.; Seiler, F.; Wehrfritz, H.; Roth, S.; Alqudrah, M.; Becker, A.; Bracht, H.; Wagenpfeil, S.; Hoffmann, M.; Bals, R.; Hübner, U.; Geisel, J.; Lepper, P. M.; Becker, S. L. Antibiotic Therapeutic Drug Monitoring in Intensive Care Patients Treated with Different Modalities of Extracorporeal Membrane Oxygenation (ECMO) and Renal Replacement Therapy: A Prospective, Observational Single-Center Study. *Crit Care* **2020**, 24 (1), 664. <https://doi.org/10.1186/s13054-020-03397-1>.
- Nourkami-Tutdibi, N.*; Simon, A.; Fries, P.; **Becker, S. L.**; Ecker, P.; Zemlin, M.; Meyer, S. A 5-Year-Old Boy with a Chronic Cough Caused by Echinococcus Granulosus. *The Lancet* **2019**, 393 (10166), 74. [https://doi.org/10.1016/S0140-6736\(18\)32852-6](https://doi.org/10.1016/S0140-6736(18)32852-6).
- Van Ingen, J.; Kohl, T. A.; Kranzer, K.; Hasse, B.; Keller, P. M.; Katarzyna Szafrńska, A.; Hillemann, D.; Chand, M.; Schreiber, P. W.; Sommerstein, R.; Berger, C.; Genoni, M.; Rüegg, C.; Troillet, N.; Widmer, A. F.; **Becker, S. L.**; Herrmann, M.; Eckmanns, T.; Haller, S.; Höller, C.; Debast, S. B.; Wolfhagen, M. J.; Hopman, J.; Kluytmans, J.; Langelaar, M.; Notermans, D. W.; Ten Oever, J.; Van Den Barselaar, P.; Vonk, A. B. A.; Vos, M. C.; Ahmed, N.; Brown, T.; Crook, D.; Lamagni, T.; Phin, N.; Smith, E. G.; Zambon, M.; Serr, A.; Götting, T.; Ebner, W.; Thürmer, A.; Utpatel, C.; Spröer, C.; Bunk, B.; Nübel, U.; Bloemberg, G. V.; Böttger, E. C.; Niemann, S.; Wagner, D.; Sax, H.* Global Outbreak of Severe Mycobacterium Chimaera Disease after Cardiac Surgery: A Molecular Epidemiological Study. *The Lancet Infectious Diseases* **2017**, 17 (10), 1033–1041. [https://doi.org/10.1016/S1473-3099\(17\)30324-9](https://doi.org/10.1016/S1473-3099(17)30324-9).
- Lo, N. C.*; Bogoch, I. I.; Blackburn, B. G.; Raso, G.; N'Goran, E. K.; Coulibaly, J. T.; **Becker, S. L.**; Abrams, H. B.; Utzinger, J.; Andrews, J. R. Comparison of Community-Wide, Integrated Mass Drug Administration Strategies for Schistosomiasis and Soil-Transmitted Helminthiasis: A Cost-Effectiveness Modelling Study. *The Lancet Global Health* **2015**, 3 (10), e629–e638. [https://doi.org/10.1016/S2214-109X\(15\)00047-9](https://doi.org/10.1016/S2214-109X(15)00047-9). (OA)

* corresponding author

Category B

- Feucherolles, M.; Poppert, S.; Utzinger, J., **Becker, S.L.** MALDI-TOF mass spectrometry as a diagnostic tool in human and veterinary helminthology: a systematic review. *Parasites & Vectors* **2019**, 12 (1), 245. <https://doi.org/10.1186/s13071-019-3493-9>. (OA)
- Becker, D.M.; Tafoya, C.A.; **Becker, S.L.**, Kruger, G.H.; Tafoya, M.J.; Becker, T.K. The use of portable ultrasound devices in low- and middle-income countries: a systematic review of the literature. *Tropical Medicine & International Health* **2016**, 21 (3), 294-311. <https://doi.org/10.1111/tmi.12657>.

Utzinger, J.; **Becker, S.L.**; van Lieshout, L.; van Dam, G.J.; Knopp S. New diagnostic tools in schistosomiasis. *Clinical Microbiology & Infection* **2015**, *21* (6),529-42.
<https://doi.org/10.1016/j.cmi.2015.03.014>.

Becker, S.L.; Vogt, J.; Knopp, S.; Panning, M.; Warhurst, D.C.; Polman, K.; Marti, H.; von Müller, L.; Yansouni, C.P.; Jacobs, J.; Bottieau, E.; Sacko, M.; Rijal, S.; Meyanti, F.; Miles, M.A.; Boelaert, M.; Lutumba, P.; van Lieshout, L.; N'Goran, E.K.; Chappuis, F.; Utzinger, J. Persistent digestive disorders in the tropics: causative infectious pathogens and reference diagnostic tests. *BMC Infectious Diseases* **2013**, *24*, 13, 37.
<https://doi.org/10.1186/1471-2334-13-37>.

Academic Distinctions

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| 2022: | “Best teaching in the clinical study section”, Medical Faculty, Saarland University |
| 2021: | “Gesundheitspreis der saarländischen Ärzteschaft” (Health Award), Medical Assoziation Saarland |
| 2019: | “Best teaching in the clinical study section”, Medical Faculty, Saarland University |
| 2017: | Diagnostics Prize, German Society of Hygiene and Microbiology (DGHM) |
| 2012–2016: | PhD scholarship, Swiss School for Public Health, Bern, Switzerland |
| 2004–2011: | Scholarship, German National Merit Foundation |