

Prof. Dr. med. Stephan Böse-O'Reilly MPH*Personal Information*

Head of the unit "Global Environmental Health and Climate Change" at the Institute and Clinic for Occupational, Social and Environmental Medicine, University Hospital, LMU Munich, Germany

Education

2011	Habilitation thesis: "Environmental Medicine and Public Health"
1995	Master of Public Health (MPH)
1993	Specialized graduation in paediatrics
1992-1995	Study of public health, Postgraduate School of Public Health and Epidemiology, LMU Munich, Germany
1980-1986	Study of medicine, LMU Munich, Germany

Professional Experience

2011-today	Head of the unit "Global Environmental Health and Climate Change" at the Institute and Clinic for Occupational, Social and Environmental Medicine, University Hospital, LMU Munich, Germany
2006-today	Senior Scientist, Department of Public Health, Health Services Research and Health Technology Assessment, UMIT, Hall i. T., Austria
2015-today	Consultant for the World Bank. Project: Lead and Children in Zambia

Supervision

Bachelor thesis, master thesis, medical promotion, PhD thesis

Major Funded Projects

2017-2022	"Human Biomonitoring for EU (HBM4EU)" Large scale EU project for human-biomonitoring Work packages: From exposure to health; training and dissemination Role: UMIT team leader; Funded by European Union (Horizon 2020)
2013-2019	HEALS – "Health and Environment-wide Associations based on Large population Surveys": Exposome research. Role: LMU team leader; Funded by European Union (FP7)
2015-2024	ZMERIP – "Environmental Remediation and Improvement Project" Providing technical expertise for a health intervention program as part of an environmental remediation program in Kabwe / Zambia. Role: Environmental health expert; Funded by World Bank
2016- 2020	Training modules for pediatrics (BMU)
2019-2022	Co-HEAT- project for evaluation impacts of heat stress and covid-19 on health care workers (BMU)
2020-2022	Heat service instead of heat stress - what do municipalities need? (BMG)
2020-2021	Care-Heat (BG)

Research Areas Children's environmental health, climate change and health, lead and mercury as health hazards, children and adolescent medicine, Policy science interface, human-biomonitoring, burden of disease, global environmental health

Professional Activity

- Member of the Climate Forum (LMU)
- Member of the "Examination Committee for the Master's Programme" at the Institute for Medical Information Processing, Biometry and Epidemiology (IBE) / (LMU)
- Member of the "Working Group - Climate Change and Health" of the German Medical Association (BÄK)
- Member of: "German Alliance on Climate Change and Health" (KLUG)
- Member of the Executive Scientific Committee on Mining Occupational Safety and Health (SC MinOSH). MinOSH is a member of the International Commission on Occupational Health (ICOH)
- Board member of the "German Academy for Prevention and Health Promotion in Childhood and Adolescence"
- Member of the "Committee for Prevention of the Bavarian Medical Association and the Bavarian Association of Statutory Health Insurance Physicians"
- Board member of INCHEs (International Network Child-Health-Environment-Safety)
- Delegate of the „Munich Medical Association“ and the „Bavarian Medical Association“ and the "German Medical Association"
- Member of the "Austrian Platform for Human Biomonitoring" at the Federal Environment Agency (UBA) Vienna, Austria

Lecturing Activity

- Regular lectures on environmental health:
 - + PhD Programme International Health, Center of International Health (CiH), LMU Munich
 - + Master of Public Health programme, LMU Munich
- Regular lectures in Health Sciences / Public Health:
 - + Master of Health Sciences / Public Health, Department of Public Health, Health Services Research and HTA, UMIT
- Regular seminars on occupational, social and environmental health:
 - + Institute for Occupational, Social and Environmental Medicine, LMU Hospital

Relevant Publications

- Becker, J., P. Furu, J. Singo, D. Shoko, J. Elbel, S. Bose-O'Reilly and N. Steckling-Muschack (2021). "Determinants of health and health needs assessment of artisanal and small-scale gold miners in Kadoma, Zimbabwe: a mixed method approach." *Environ Res*: 111081.
- Bose-O'Reilly, S., H. Daanen, K. Deering, N. ... D. Nowak (2021). "COVID-19 and heat waves: New challenges for healthcare systems." *Environ Res* 198: 111153.
- Jegodka, Y., L. Lagally, H. Mertes, K. Deering, J. Schoierer, B. Buchberger and S. Bose-O'Reilly (2021). "Hot days and Covid-19: Online survey of nurses and nursing assistants to assess occupational heat stress in Germany during summer 2020." *The Journal of Climate Change and Health* 3: 100031.

- Lechner, C., D. Schnaiter and S. Bose-O'Reilly (2021). "Application of the noise annoyance equivalents model for aircraft, rail and road traffic noise to self-reported sleep disturbance." *Acta Acust.* 5.
- Moonga, G., S. Bose-O'Reilly, U. Berger, K. Harttgen, C. Michelo, D. Nowak, U. Siebert, J. Yabe and J. Seiler (2021). "Modelling chronic malnutrition in Zambia: A Bayesian distributional regression approach." *PLoS One* 16(8): e0255073.
- Rakete, S., G. Moonga, ... S. Bose-O'Reilly (2021). "Biomonitoring of arsenic, cadmium and lead in two artisanal and small-scale gold mining areas in Zimbabwe." *Environ Sci Pollut Res Int.*
- Schweizer, A. K., M. Kabesch, C. Quartucci, S. Bose-O'Reilly and S. Rakete (2021). "Implementation of mercury biomonitoring in German adults using dried blood spot sampling in combination with direct mercury analysis." *Environ Monit Assess* 193(8): 488.
- Suraya, A., D. Nowak, A. W. Sulistomo, A. G. Icksan, U. Berger, E. Syahrudin and S. Bose-O'Reilly (2021). "Excess Risk of Lung Cancer Among Agriculture and Construction Workers in Indonesia." *Ann Glob Health* 87(1):
- Wahl, A.-M., S. Bose-O'Reilly, V. Mambrey, J. P. K. Rooney, D. Shoko, D. Moyo, S. Muteti-Fana, N. Steckling-Muschack and S. Rakete (2021). "Analysis of the Mercury Distribution in Blood as a Potential Tool for Exposure Assessment – Results from Two Artisanal and Small-Scale Gold Mining Areas in Zimbabwe." *Biological Trace Element Research.*
- Bose-O'Reilly, S., B. Lettmeier, D. Shoko, G. Roider, G. Drasch and U. Siebert (2020). "Infants and mothers levels of mercury in breast milk, urine and hair, data from an artisanal and small-scale gold mining area in Kadoma / Zimbabwe." *Environ Res* 184: 109266.
- Daanen, H., S. Bose-O'Reilly, M. ... P. Van den Hazel (2020). "COVID-19 and thermoregulation-related problems: Practical recommendations." *Temperature*: 1-11.
- Deering, K., E. Spiegel, C. Quaisser, D. Nowak, S. Rakete, M. Garí and S. Bose-O'Reilly (2020). "Exposure assessment of toxic metals and organochlorine pesticides among employees of a natural history museum." *Environmental Research* 184: 109271.
- Mambrey, V., S. Rakete, M. ... S. Bose-O'Reilly (2020). "Artisanal and small-scale gold mining: A cross-sectional assessment of occupational mercury exposure and exposure risk factors in Kadoma and Shurugwi, Zimbabwe." *Environ Res* 184: 109379.
- Kolbinger, V., K. Engstrom, U. Berger and S. Bose-O'Reilly (2019). "Polymorphisms in potential mercury transporter ABCC2 and neurotoxic symptoms in populations exposed to mercury vapor from goldmining." *Environ Res* 176: 108512.
- Landrigan, P. J., R. Fuller, S. Fisher, W. A. Suk, P. Sly, T. C. Chiles and S. Bose-O'Reilly (2019). "Pollution and children's health." *Science of The Total Environment* 650: 2389-2394.
- Landrigan PJ, Fuller R, Acosta NJR, ... Bose-O'Reilly S, ..., Zhong M (2018). „The Lancet Commission on pollution and health“. *Lancet* 391(10119):462-512.

(for a complete list, see <https://pubmed.ncbi.nlm.nih.gov/?term=bose-O%27Reilly&sort=date>)