

Curriculum Vitae

Natascha Köstlin-Gille Professor, Dr. med.
d.o.b. September 13th, 1983, in Stuttgart, Germany

University Education

2025 M.Sc. Biomedical Data Sciences, Hannover Medical School
2022-2025 Studies of Biomedical Data Sciences, Hannover Medical School
2022 Habilitation Pediatrics, Eberhard-Karls-University Tübingen
2011 Doctorate Medicine, Albert-Ludwigs-University Freiburg i. Br.
2004-2010 Studies of Medicine, Albert-Ludwigs-University Freiburg i. Br.

Scientific Career

Since 2026 W3 Else-Kröner-Fresenius Clinician Scientist Professorship for “Perinatal Immunology, Ruprecht-Karls-University Heidelberg
2023-2025 Senior Physician in Neonatology, University Hospital Tübingen, Germany
2023 Specialist in Neonatology
2021-2026 Group Leader, University Hospital Heidelberg, Germany
2020 Specialist in Pediatrics
2017-2026 Group Leader, University Hospital Tübingen, Germany
2011-2017 Research Assistant, University Hospital Tübingen, Germany
2011-2020 Speciality Training in Pediatrics

Awards and Honors

2025 Else-Kröner-Fresenius Clinician Scientist Professorship
2018 Heinrich Nestlé Research Award
2023 Theodor Escherich Award (German Society of Pediatric Infectious Diseases, DGPI)
2017 Margarete von Wrangell Habilitation Program for Women (Ministry of Science, Research and the Arts Baden-Württemberg (MWK) and European Social Fund (ESF))
2016 Research Award of the German Society of Neonatology and Pediatric Intensive Care (GNPI)

Citation Record

Total citations: 1,578; h-index:18; h-index since 2021: 17 (Google Scholar May 30th, 2026)

Top-10 selected Publications

Faust K, Strecker F, Haug C, Felderhoff-Müser U, Stein A, Jensen R, Fortmann MI, Marißen J, Silwedel C, Brebach K, Frommhold D, Wieg C, Hillebrand G, Naust B, Schmidt E, Koch L, Schmidtke S, Simon A, Zemlin M, Meyer S, Scholzen C, **Köstlin-Gille N**, Gille C, Longardt AC, Göpel W, Krone M, Kampmeier S, Nurjadi D, Herting E, Rupp J, König IR, Härtel C. Extended Barrier Precautions vs Hand Hygiene Alone and Neonatal Sepsis in Intensive Care Patients: The BALTIC Cluster-Randomized Clinical Trial. **JAMA Netw Open** 2026 May 1;9(5):e2612759. doi: 10.1001/jamanetworkopen.2026.12759.

Schwarz J, Hebel J, Dietz-Ziegler S, Rühle J, Lajqi T, Orlikowsky T, Poets CF, Gille C, **Köstlin-Gille N**. Depletion of Neonatal Neutrophilic Cells Worsens the Outcome of E. coli Sepsis in Newborn Mice. **Eur J Immunol**. 2026 Apr;56(4):e70171. doi: 10.1002/eji.70171.

Dietz-Ziegler S, Kewitz S, Kaiser G, Rühle J, Marmé A, Dalpke A, Cheaib B, Pauluschke-Fröhlich J, Henes M, Velic A, Pich A, Vollert A, Schaller M, Knab F, Lajqi T, Poets CF, Gille C, **Köstlin-Gille N**. Extracellular Vesicles Derived From the Feces of Pregnant Women Modulate T Cells Toward a Pregnancy-Supportive Phenotype In Vitro. **Eur J Immunol**. 2025 Sep;55(9):e70056. doi: 10.1002/eji.70056.

Fortmann I, Welp A, Hoffmann N, Faust K, Silwedel C, Retzmann J, Gembicki M, **Köstlin-Gille N**, Häfke A, Zemlin M, Marissen J, Bossung V, Soler Wenglein J, Scharf JL, Weichert J, Müller A, Ricklefs I, Rody A, Pirr S, Boutin S, Rupp J, Brinkmann F, Heideking M, Stichtenoth G, Göpel W, Herting E, Hanke K, Härtel C. Perinatal Antibiotic Exposure and Respiratory Outcomes in Children Born Preterm. **JAMA Netw Open**.

2025 May 1;8(5):e259647. doi: 10.1001/jamanetworkopen.2025.9647.

Schwarz J, Rühle J, Stephan K, Dietz S, Geißert J, Schoppmeier U, Frick JS, Hudalla H, Lajqi T, Poets CF, Gille C, **Köstlin-Gille N**, *Targeted deletion of HIF-1 α in myeloid cells of neonatal mice: decreased accumulation of myeloid-derived suppressor cells and altered microbiome.* **Eur J Immunol.**, **2023** Jul;53(7):e2250144. doi: 10.1002/eji.202250144.

Köstlin-Gille N*, Serna-Higuera LM*, Bubser C, Arand J, Haag L, Schwarz CE, Heideking M, Poets CF, Gille C, Early initiation of antibiotic therapy and short-term outcomes in preterm infants – a single-center retrospective cohort analysis. **Arch Dis Child-Fetal.** 2023 Nov;108(6):623-630. doi: 10.1136/archdischild-2022-325113.

Dietz S, Schwarz J, Velic A, González-Menéndez I, Quintanilla-Martinez L, Casadei N, Marmé A, Poets CF, Gille C, **Köstlin-Gille N**. *Human Leucocyte Antigen G and Murine Qa-2 Are Critical for Myeloid Derived Suppressor Cell Expansion and Activation and for Successful Pregnancy Outcome.* **Front Immunol.** **2022** Jan 17;12:787468. doi: 10.3389/fimmu.2021.787468.

Köstlin-Gille N, Flaig LA, Ginzler M, Arand J, Poets CF, Gille C. *Granulocytic myeloid-derived suppressor cells in breast milk (BM-MDSC) correlate with gestational age and postnatal age and are influenced by infant's sex.* **Nutrients**, **2020** Aug 25;12(9):2571. doi: 10.3390/nu12092571.

Köstlin N., Schoetensack C., Schwarz J, Spring B, Marmé A., Goelz R., Brodbeck G., Poets CF, Gille C. *Granulocytic myeloid-derived suppressor cells (GR-MDSC) in Breast Milk (BM): GR-MDSC accumulate in human BM and modulate T-cell and monocyte functions.* **Front Immunol**, **2018** May 17;9:1098. doi: 10.3389/fimmu.2018.01098.

Köstlin N, Hofstädter K, Ostermeier AL, Spring B, Leiber A, Haen S, Abele H, Bauer P, Pollheimer J, Hartl D, Poets CF, Gille C. *Granulocytic myeloid-derived suppressor cells accumulate in human placenta and polarize towards a Th2 phenotype.* **J Immunol**, **2016** Feb 1;196(3):1132-45. doi: 10.4049/jimmunol.1500340.