



Dr. med. Nicole Töpfer

Address: Klinik und Poliklinik für Kinder- und Jugendmedizin,
Universitätsklinikum Carl Gustav Carus,
Technische Universität Dresden,
Fetscherstr. 74, 01307 Dresden

Phone: +49 (0) 351 458 18715

Email: Nicole.Toepfner@uniklinikum-dresden.de

CURRICULUM VITAE

Professional Education

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| Since 2017 | Specialist training in Paediatric Haematology and Oncology University Children's Hospital, Technical University, Dresden, Germany |
| Since 2014 | Specialist in Paediatrics Paediatric Infectious Diseases and Immunology Service University Children's Hospital, Technical University, Dresden, Germany |
| 2008-2014 | Specialist training in Paediatrics University Children's Hospital, Technical University, Dresden, Germany University Children's Hospital, Albert-Ludwigs-University, Freiburg, Germany |
| 2004-2008 | Clinical Study of Human Medicine Heinrich-Heine University, Düsseldorf, Germany |
| 2001-2004 | Preclinical Study of Human Medicine Ruhr-University, Bochum, Germany |

Scientific Education and Career

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| 2015-2017 | Postdoc , Host: Prof. Edwin R. Chilvers Department of Medicine, University of Cambridge, Cambridge, United Kingdom |
| 2014-2015 | Postdoc , Host: Prof. Jochen Guck BIOTEC, Division of Cellular Machines, Technical University, Dresden, Germany |
| 2013-2014 | Principal Investigator for the GASbon Study Centre de Recherches Médicales de Lambaréné, Gabon, Africa |
| 2013 | Visiting Researcher , Host: PD Patric Nitsche / Prof. G. Singh Chhatwal Helmholtz Centre for Infection Research (HZI), Braunschweig, Germany |
| 2008-2011 | CCI Fellowship , Host: Prof. Philipp Henneke / Prof. Alexandra Nieters Project coordination and Study Doctor for the EU NTM-Kids CCI Study Centrum for Chronic Immunodeficiency (CCI), Albert-Ludwigs-University, Freiburg, Germany |
| 2004-2007 | MD thesis , Host: Prof. Bernhard Hemmer Department of Neurology, Heinrich Heine University, Düsseldorf, Germany |

Awards and Honors

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| 2014 | DFG Gerok Fellowship Clinical Research Group KFO249, Technical University, Dresden, Germany |
| 2013-2014 | MeDDrive Start Grant Technical University, Dresden, Germany |
| 2013 | DGPI Young Investigator Award German Society for Paediatric Infectious Diseases, Germany |
| 2004-2006 | DFG Student Stipendiary DFG Graduate School 320, Heinrich Heine University, Düsseldorf, Germany |

Selection of publications

A full list of publications is available via: www.nicole-toepfner.de

- P Konrad, M Hufnagel, R Berner, [N Toepfner](#), **Long-term, single-center surveillance of non-invasive group A streptococcal (GAS) infections, emm types and emm clusters**. *European Journal of Clinical Microbiology & Infectious Diseases* 39 (2), 273-280 (2020)
- AA Nawaz, M Urbanska, M Herbig, M Nötzel, M Kräter, P Rosendahl, C Herold, [N Toepfner](#), M Kubánková, R Goswami, S Abuhattum, F Reichel, P Müller, A Taubenberger, S Girardo, A Jacobi, J Guck, **Intelligent image-based deformation-assisted cell sorting with molecular specificity**. *Nature Methods* 17:595–599 (2020)
- KR Bashant, A Vassallo, C Herold, R Berner, L Menschner, J Subburayalu, MJ Kaplan, C Summers, J Guck, ER Chilvers, [N Toepfner](#), **Real-time deformability cytometry reveals sequential contraction and expansion during neutrophil priming**. *Journal of leukocyte biology*, 105 (6), 1143-1153 (2019)
- [N Toepfner](#), C Herold, O Otto, P Rosendahl, A Jacobi, M Krater, J Stachele, L Menschner, M Herbig, L Ciuffreda, L Ranford-Cartwright, M Grzybek, U Coskun, E Reithuber, G Garriss, P Mellroth, B Henriques-Normark, N Tregay, M Suttorp, M Bornhauser, E Chilvers, R Berner, J Guck, **Detection Of Human Disease Conditions By Single-Cell Morpho-Rheological Phenotyping Of Whole Blood**. *Elife* e29213 (2018)
- S Rößler, R Berner, E Jacobs, [N Toepfner](#), **Prevalence and molecular diversity of invasive *Streptococcus dysgalactiae* and *Streptococcus pyogenes* in a German tertiary care medical center**. *European Journal of Clinical Microbiology & Infectious Diseases* 37(7):1325-1332 (2018)
- P Rosendahl, K Plak, A Jacobi, M Kraeter, [N Toepfner](#), O Otto, C Herold, M Winzi, M Herbig, Y Ge, S Girardo, K Wagner, B Baum, J Guck, **Real-time fluorescence and deformability cytometry**. *Nature methods* 15(5):355-358 (2018)
- J Windfuhr, [N Toepfner](#), G Steffen, F Waldfahner, R Berner, **Clinical practice guideline: tonsillitis I. Diagnostics and nonsurgical management**. *European Archives of Oto-Rhino-Laryngology* 273(4), 973-987 (2016)
- S Bélard, [N Toepfner](#), B Arnold, A Alabi, R Berner, **β -hemolytic streptococcal throat carriage and tonsillopharyngitis: a cross-sectional prevalence study in Gabon, Central Africa**. *Infection* 43(2), 177-183 (2015)
- O Otto, P Rosendahl, A Mietke, S Golfier, C Herold, D Klaue, S Girardo, S Pagliara, A Ekpenyong, A Jacobi, M Wobus, [N Toepfner](#), U Keyser, J Mansfeld, E Fischer-Friedrich, J Guck, **Real-time deformability cytometry: on-the-fly cell mechanical phenotyping**. *Nature methods* 12(3), 199-202 (2015)
- [N Toepfner](#), P Henneke, R Berner, M Hufnagel, **Impact of technical training on rapid antigen detection tests (RADT) in group A streptococcal tonsillopharyngitis**. *European Journal of Clinical Microbiology & Infectious Diseases* 32(5), 609-611 (2013)

References

Prof. Dr. Reinhard Berner

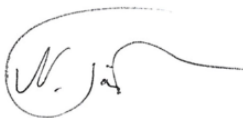
Director of the Clinic and Policlinic of Pediatric and Adolescent Medicine, TU Dresden
Phone: +49 (0)351 458-2440/2508, Email: Reinhard.berner@uniklinikum-dresden.de

Prof. Dr. Jochen Guck

Director of Max Planck Institute for the Science of Light & Max Planck Center for Physics and Medicine
Phone: +49 (0)9131 7133-501, Email: jochen.guck@mpl.mpg.de

Prof. Edwin R. Chilvers, PhD, FRCP, FHEA, ScD, FMedSci

Head of the National Heart and Lung Institute, Imperial College London
Phone: +44 (0)20 7594 5570, Email: e.chilvers@imperial.ac.uk



Dr. Nicole Toepfner

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