

# Prof. Dr. rer. nat. Michael Lanzer



13/09/1959, Düsseldorf

Centre for Infectious Diseases  
Parasitology  
Heidelberg University Hospital  
69120 Heidelberg, Germany

Phone: +49-(0)6221-56 7845  
Fax: +49-(0)6221-56 4643  
E-mail: [michael.lanzer@med.uni-heidelberg.de](mailto:michael.lanzer@med.uni-heidelberg.de)  
Web: [www.ukhd.de/parasitologie](http://www.ukhd.de/parasitologie)

## CURRICULUM VITAE

2000	Offer for Professorship at the Seattle Biomedical Institute, USA (declined)
1999 – present	Full Professor and Head of Department of Parasitology, Heidelberg University
1996	Habilitation in Microbiology, University of Würzburg
1994 – 1998	Junior Group Leader, Research Center for Infectious Diseases, University of Würzburg
1988 – 1993	Postdoc, Sloan-Kettering Cancer Center, New York, USA.
1985 – 1988	Dr. rer. nat., Center for Molecular Biology, Heidelberg University
1984 – 1985	Diploma Thesis, Hoffman-La Roche und Co. AG, Basel, Switzerland
1979 – 1984	Biology School, Heidelberg University

## COORDINATING FUNCTIONS

2018 – present	Vice Dean, Graduate Studies, Faculty of Biosciences, Heidelberg University
2018 – present	Member, Faculty Board Biosciences, Heidelberg University
2018 – present	Member, Council for Graduate Studies, Graduate Academy, Heidelberg University
2015 - present	Member, Executive Board, Heidelberg Biosciences International Graduate School (HBIGS), German Excellence Initiative
2014 – present	Member, External Scientific Advisory Board of the European Vaccine Initiative (EVI)
2014 – 2020	Member, ERC (European Research Council) panel “Infection & Immunity” (Starting & Consolidator Grants)
2013 – present	Chair, External Scientific Advisory Board of the ANR-funded French Alliance for Parasitology and Health Care “ParaFrap”
2013 – 2016	Member, Wellcome Trust PhD Committee
2012 – 2014	Member, Council for Graduate Studies, Graduate Academy, Heidelberg University
2010 – 2015	Director, international EVIMalaR PhD Programme
2008 – 2015	Director, European Malaria Graduate School
2008 – 2015	Member, Executive Committee, European Network of Excellence “EVIMalaR”
2007 – 2015	Founding director and applicant, Heidelberg Biosciences International Graduate School (HBIGS), German Excellence Initiative
2007 – 2010	Member, External Scientific Advisory Board of the European Malaria Vaccine Development Association (EMVDA)
2005 – present	Initiator and coordinator, MD/PhD program at Heidelberg University
2005 – 2009	Member, Executive Committee, Marie-Curie Fellowship program “MalParTraining”
2004 – 2009	Member, Executive Committee, European Network of Excellence “BioMalPar”
2004 – 2008	Member, Executive Committee, European Malaria Graduate School
1999 – 2002	Co-chairman, SFB 544 “Control of Tropical Infectious Diseases”
1993 – present	Coordinator of various EU-funded research networks (6 in total)

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## HONORS

- 2011 Heidelberg Molecular Life Sciences (HMLS) Investigator Award  
1995 Prize for Tropical Medicine, Awarded by the German Society for Tropical Medicine

## REVIEWER TASKS

Ad hoc reviewer for scientific journals (including Cell, Science, Nature, EMBO J, PNAS, etc.) and national and international funding organizations (including DFG, Alexander von Humboldt Stiftung, DAAD, French National Research Agency (ANR), Israel Science Foundation, MRC, European Commission, Medicines for Malaria Venture, Boehringer Ingelheim Fonds, MWK Hessen, Institut Pasteur etc.)

## FIELDS OF INTEREST

Molecular Parasitology, drug resistance mechanisms of the malarial parasite, antigenic variation, cytoadherence, protein trafficking in *P. falciparum*, membrane transport processes, natural protection from malaria by haemoglobinopathies.

## PUBLICATIONS (10 most important publications)

- Blank A, Furle K, Jaschke A, Mikus G, Lehmann M, Husing J, Heiss K, Giese T, Carter D, Bohnlein E, Lanzer M, Haefeli WE, Bujard H. 2020. Immunization with full-length Plasmodium falciparum merozoite surface protein 1 is safe and elicits functional cytophilic antibodies in a randomized first-in-human trial. NPJ Vaccines 5, p. 10
- Pegoraro S, Duffey M, Otto TD, Wang Y, Rosemann R, Baumgartner R, Fehler SK, Lucantoni L, Avery VM, Moreno-Sabater A, Mazier D, Vial HJ, Strobl S, Sanchez CP, Lanzer M. 2017. SC83288 is a clinical development candidate for the treatment of severe malaria. Nat Commun 8: 14193
- Cyrklaff M, Srismith S, Nyboer B, Burda K, Hoffmann A, Lasitschka F, Adjalley S, Bisseye C, Simpore J, Mueller AK, Sanchez CP, Frischknecht F, Lanzer M. 2016. Oxidative insult can induce malaria-protective trait of sickle and fetal erythrocytes. Nat Commun 7: 13401
- Rieger H, Yoshikawa HY, Quadt K, Nielsen MA, Sanchez CP, Salanti A, Tanaka M, Lanzer M. 2015. Cytoadhesion of Plasmodium falciparum-infected erythrocytes to chondroitin-4-sulfate is cooperative and shear enhanced. Blood 125: 383-391
- Sanchez CP, Liu CH, Mayer S, Nurhasanah A, Cyrklaff M, Mu J, Ferdig MT, Stein WD, Lanzer M. 2014. A HECT ubiquitin-protein ligase as a novel candidate gene for altered quinine and quinidine responses in Plasmodium falciparum. PLoS genetics 10: e1004382
- Summers RL, Dave A, Dolstra TJ, Bellanca S, Marchetti RV, Nash MN, Richards SN, Goh V, Schenk RL, Stein WD, Kirk K, Sanchez CP, Lanzer M\*, Martin RE\*. 2014. Diverse mutational pathways converge on saturable chloroquine transport via the malaria parasite's chloroquine resistance transporter. PNAS 111: E1759-1767;
- Cyrklaff M, Sanchez CP, Kilian N, Bisseye C, Simpore J, Frischknecht F, Lanzer M. 2011. Hemoglobins S and C interfere with actin remodeling in Plasmodium falciparum-infected erythrocytes. Science 334: 1283-1286
- Rohrbach P, Sanchez CP, Hayton K, Friedrich O, Patel J, Sidhu AB, Ferdig MT, Fidock DA, Lanzer M. 2006. Genetic linkage of pfmdr1 with food vacuolar solute import in Plasmodium falciparum. The EMBO journal 25: 3000-3011
- del Portillo HA, Fernandez-Becerra C, Bowman S, Oliver K, Preuss M, Sanchez CP, Schneider NK, Villalobos JM, Rajandream MA, Harris D, Pereira da Silva LH, Barrell B, Lanzer M. 2001. A superfamily of variant genes encoded in the subtelomeric region of Plasmodium vivax. Nature 410: 839-842
- Scherf A, Hernandez-Rivas R, Buffet P, Bottius E, Benatar C, Pouvelle B, Gysin J, Lanzer M. 1998. Antigenic variation in malaria: in situ switching, relaxed and mutually exclusive transcription of var genes during intra-erythrocytic development in Plasmodium falciparum. The EMBO journal 17: 5418-5426