

Curriculum vitae: Erich Gulbins

Date & Place of birth: April 16th, 1966 in Ludwigshafen am Rhein, Germany

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Position Univ-Prof. and Chair

Children 1 son, 1 daughter (1993, 1999)

Academic education

1985-1991 Medical School, Universities of Heidelberg, Germany; Guy's Hospital, London, UK; Louisville, Kentucky, USA

Advanced Professional Degrees

1992 Dissertation (Dr. med.), Institute of Physiology, University of Heidelberg, Germany (with Prof. Dr. Dr. M. Steinhausen)

1996 Habilitation in Physiology, Medical Faculty of the University of Tübingen, Germany (with Prof. Dr. Dr. F. Lang)

1999 Extension of the Habilitation in Immunology, University of Tübingen, Germany (with Prof. Dr. H.J. Rammensee)

Positions

1992-1994 Postdoctoral Fellow, La Jolla Institute for Allergy and Immunology, La Jolla, California, USA

March 1994 Guest Scientist, Dept. of Microbiology, Ohio State University, Columbus, Ohio, USA

1994-2000 Research Scientist (C1) and Assistant Professor (C2), Institute for Physiology, University of Tübingen, Germany

2000-2002 Associate Professor, Department of Immunology, St. Jude Children's Research Hospital, Memphis, Tennessee, USA

Since Dec. 2001 Full Professor and Acting Chair (C4), Department of Molecular Biology, University of Duisburg-Essen, Essen, Germany

2011-2021 Adjunct Professor, Dept. of Surgery, University of Cincinnati, Ohio, USA

Stipends and awards

Since 1986 Member of the German National Scholarship Foundation
1991 Travel Award from the International Society of Microcirculation
1991 Award from the German Nephrology Society
1992-1994 Fellowship, BASF-AG and German National Scholarship Foundation
1994 Fellowship from the Leukemia and Lymphoma Society

1994 Sandoz Prize for Young Investigators
1999 Du-Bois-Reymond Award, German Physiological Society
Since 2011 Member of the National Academy of Sciences Leopoldina
2014 Annika Liese Award on Major Depression
2015 Eva and Klaus Grohe Award on Infectious Biology of the Berlin-Brandenburg Academy of Sciences

2007-2013 Speaker/Coordinator of the DFG Special Research Program 1267 "Sphingolipids – Signals and Disease"
2014-2020 Vice-Speaker of the DFG Research Group 2123 "Sphingolipid dynamics in infection control"
2015-2021 Speaker of the DFG-Graduate School 2098 "Biomedicine of the acid sphingomyelinase/acid ceramidase system"

Professional activities

Since 1994 AAAS-Member
Since 1997 Member of the German Society for Physiology
Since 1998 Member of the American Association of Immunologists
Since 1998 Member of the American Society for Microbiology
Since 2002 Member of the American Society for Biochemistry and Molecular Biology

Since 2011 Member of the German Society for Microbiology
Since 2011 Member of the American Chemical Society
Since 2013 Member of the International Society of Neurochemistry

2012/14/16/18	Chair/Vice-Chair of the International Meeting "Molecular Medicine of Sphingolipids" in Israel (2012/18), Germany (2014), USA (2016)
2002-2019	Associate Editor of the Journal "Cellular Physiology and Biochemistry"
2006 to 2013	Associate Editor of the "Journal of Cystic Fibrosis"
2006 to 2013	Member of the Faculty Committee of the Medical Faculty, University of Duisburg-Essen
2010-2014	Editor, "PlosOne"
2015-2019	Associate Editor of the Journal "Neurosignals"
Since 2019	Editor of the Journal "Cellular Physiology and Biochemistry"
Since 2019	Editor of the "Neurosignals"

Publications (10 most important)

1. Carpinteiro A, Edwards MJ, Hoffmann M, Kochs G, Gripp B, Weigang S, Adams C, Carpinteiro E, Gulbins A, Keitsch S, Sehl C, Soddemann M, Wilker B, Kamler M, Bertsch T, Lang KS, Patel S, Wilson GC, Walter S, Hengel H, Pöhlmann S, Lang PA, Kornhuber J, Becker KA, Ahmad SA, Fassbender K, **Gulbins E**. Pharmacological inhibition of acid sphingomyelinase prevents uptake of SARS-CoV-2 by epithelial cells. **CELL Rep Med** 2020;1:100142.
2. Grassmé H, Henry B, Ziobro R, Becker KA, Riethmüller J, Gardner A, Seitz AP, Steinmann J, Lang S, Ward C, Schuchman EH, Caldwell CC, Kamler M, Edwards MJ, Brodlie M, **Gulbins E**. β 1-Integrin accumulates in cystic fibrosis luminal airway epithelial membranes and decreases sphingosine, promoting bacterial infections. **CELL Host Microbe** 2017;21:707-18.
3. Pewzner-Jung Y, Tavakoli Tabazavareh S, Grassmé H, Becker KA, Japtok L, Steinmann J, Joseph T, Lang S, Tuemmler B, Schuchman EH, Lentsch AB, Kleuser B, Edwards MJ, Futerman AH, **Gulbins E**. Sphingoid long chain bases prevent lung infection by *Pseudomonas aeruginosa*. **EMBO Mol Med** 2014;6:1205-1.
4. **Gulbins E**, Palmada M, Reichel M, Lüth A, Böhmer C, Amato D, Müller CP, Tischbirek CH, Groemer TW, Tabatabai G, Becker KA, Tripal P, Staedtler S, Ackermann TF, v. Brederode J, Alzheimer C, Weller M, Lang UE, Kleuser B, Grassmé H, Kornhuber J. Acid sphingomyelinase/ceramide system mediates effects of antidepressant drugs. **Nat Med** 2013;19:934-8.
5. Zhang Y, Li X, Carpinteiro A, Goettel JA, Soddemann M, **Gulbins E**. Kinase suppressor

- of Ras-1 protects against pulmonary *Pseudomonas aeruginosa* infections. **Nat Med** 2011;17:341-6.
6. Teichgräber V, Ulrich M, Endlich N, Riethmüller J, Wilker B, De Oliveira-Munding CC, van Heeckeren AM, Barr ML, von Kürthy G, Schmid KW, Weller M, Tümmler B, Lang F, Grassmé H, Döring G, **Gulbins E**. Ceramide accumulation mediates inflammation, cell death and infection susceptibility in cystic fibrosis. **Nat Med** 2008;14:382-91.
 7. Grassmé H, Jendrossek V, Riehle A, von Kürthy G, Berger J, Schwarz H, Weller M, Kolesnick R, **Gulbins E**. Host defense against *Pseudomonas aeruginosa* requires ceramide-rich membrane rafts. **Nat Med** 2003;9:322-30.
 8. Grassmé H, Jekle A, Riehle A, Schwarz H, Berger J, Sandhoff K, Kolesnick R, **Gulbins E**. CD95 signaling via ceramide-rich membrane rafts. **J Biol Chem** 2001;276:20589-96.
 9. Grassmé H, Kirschnek S, Riethmueller J, Riehle A, von Kürthy G, Lang F, Weller M, **Gulbins E**. CD95/CD95 ligand interactions on epithelial cells in host defense to *Pseudomonas aeruginosa*. **Science** 2000;290:527-30.
 10. *Grassmé H, ***Gulbins E**, Brenner B, Ferlinz K, Sandhoff K, Harzer K, Lang F, Meyer TF. Acidic sphingomyelinase mediates entry of *N. gonorrhoeae* into nonphagocytic cells. **CELL** 1997;91:605-15. (*shared first authorship).