

Thomas Gutschmann

List of Publications by Year in descending order

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79
papers

4,337
citations

101496

36
h-index

110317

64
g-index

80
all docs

80
docs citations

80
times ranked

5993
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The role of mycobacterial ESX-1 secretion systems in phagosome escape. <i>Biophysical Journal</i> , 2022, 121, 369a. | 0.2 | 1 |
| 2 | Encapsulation and release of Aspidasept peptides in polysaccharide formulation for oral application. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 158, 105687. | 1.9 | 5 |
| 3 | Flagellin lysine methyltransferase FliB catalyzes a [4Fe-4S] mediated methyl transfer reaction. <i>PLoS Pathogens</i> , 2021, 17, e1010052. | 2.1 | 3 |
| 4 | The Beauty of Asymmetric Membranes: Reconstitution of the Outer Membrane of Gram-Negative Bacteria. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 586. | 1.8 | 21 |
| 5 | Inactivation of Bacteria by I^{137} -Irradiation to Investigate the Interaction with Antimicrobial Peptides. <i>Biophysical Journal</i> , 2019, 117, 1805-1819. | 0.2 | 8 |
| 6 | The C-Terminal VPRTES Tail of LL-37 Influences the Mode of Attachment to a Lipid Bilayer and Antimicrobial Activity. <i>Biochemistry</i> , 2019, 58, 2447-2462. | 1.2 | 18 |
| 7 | Antibacterial action of synthetic antilipopolsaccharide peptides (SALP) involves neutralization of both membrane-bound and free toxins. <i>FEBS Journal</i> , 2019, 286, 1576-1593. | 2.2 | 12 |
| 8 | ADAM10 sheddase activation is controlled by cell membrane asymmetry. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 979-993. | 1.5 | 48 |
| 9 | Virulence-associated protein A from <i>Rhodococcus equi</i> is an intercompartmental pH-neutralising virulence factor. <i>Cellular Microbiology</i> , 2019, 21, e12958. | 1.1 | 30 |
| 10 | Peptide drug stability: The anti-inflammatory drugs Pep19-2.5 and Pep19-4LF in cream formulation. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 115, 240-247. | 1.9 | 8 |
| 11 | Novel Synthetic, Host-defense Peptide Protects Against Organ Injury/Dysfunction in a Rat Model of Severe Hemorrhagic Shock. <i>Annals of Surgery</i> , 2018, 268, 348-356. | 2.1 | 18 |
| 12 | Antimicrobial endotoxin-neutralizing peptides promote keratinocyte migration via P2X7 receptor activation and accelerate wound healing in vivo. <i>British Journal of Pharmacology</i> , 2018, 175, 3581-3593. | 2.7 | 26 |
| 13 | Inhibition of Lipopolysaccharide- and Lipoprotein-Induced Inflammation by Antitoxin Peptide Pep19-2.5. <i>Frontiers in Immunology</i> , 2018, 9, 1704. | 2.2 | 48 |
| 14 | Effects of SecDF on the antimicrobial functions of cathelicidins against <i>Staphylococcus aureus</i> . <i>Veterinary Microbiology</i> , 2017, 200, 52-58. | 0.8 | 8 |
| 15 | Coupling killing to neutralization: combined therapy with ceftriaxone/Pep19-2.5 counteracts sepsis in rabbits. <i>Experimental and Molecular Medicine</i> , 2017, 49, e345-e345. | 3.2 | 17 |
| 16 | Testing cathelicidin susceptibility of bacterial mastitis isolates: Technical challenges and data output for clinical isolates. <i>Veterinary Microbiology</i> , 2017, 210, 107-115. | 0.8 | 8 |
| 17 | Neutrophil extracellular trap formation in the <i>Streptococcus suis</i> -infected cerebrospinal fluid compartment. <i>Cellular Microbiology</i> , 2017, 19, e12649. | 1.1 | 79 |
| 18 | Immunogenic properties of the human gut-associated archaeon <i>Methanomassiliicoccus luminyensis</i> and its susceptibility to antimicrobial peptides. <i>PLoS ONE</i> , 2017, 12, e0185919. | 1.1 | 21 |

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|----|---|------|-----------|
| 19 | Candidalysin is a fungal peptide toxin critical for mucosal infection. <i>Nature</i> , 2016, 532, 64-68. | 13.7 | 628 |
| 20 | In vitro activity of human and animal cathelicidins against livestock-associated methicillin-resistant <i>Staphylococcus aureus</i> . <i>Veterinary Microbiology</i> , 2016, 194, 107-111. | 0.8 | 19 |
| 21 | Biophysical Investigations on the Interaction between Antimicrobial Peptides and Bacteria Killed by Cs-137 Irradiation. <i>Biophysical Journal</i> , 2016, 110, 79a. | 0.2 | 1 |
| 22 | Enhancing actions of peptides derived from the β -chain of fetal human hemoglobin on the immunostimulant activities of monophosphoryl lipid A. <i>Innate Immunity</i> , 2016, 22, 168-180. | 1.1 | 0 |
| 23 | Protein reconstitution into freestanding planar lipid membranes for electrophysiological characterization. <i>Nature Protocols</i> , 2015, 10, 188-198. | 5.5 | 134 |
| 24 | Mechanism of Hb β -35-induced an increase in the activation of the human immune system by endotoxins. <i>Innate Immunity</i> , 2015, 21, 305-313. | 1.1 | 11 |
| 25 | Quantification of the Influence of Endotoxins on the Mechanics of Adult and Neonatal Red Blood Cells. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7837-7845. | 1.2 | 10 |
| 26 | Bacterial lipopolysaccharides form physically cross-linked, two-dimensional gels in the presence of divalent cations. <i>Soft Matter</i> , 2015, 11, 6037-6044. | 1.2 | 49 |
| 27 | Therapeutical Administration of Peptide Pep19-2.5 and Ibuprofen Reduces Inflammation and Prevents Lethal Sepsis. <i>PLoS ONE</i> , 2015, 10, e0133291. | 1.1 | 9 |
| 28 | The Intestinal Archaea <i>Methanosphaera stadtmanae</i> and <i>Methanobrevibacter smithii</i> Activate Human Dendritic Cells. <i>PLoS ONE</i> , 2014, 9, e99411. | 1.1 | 127 |
| 29 | Biophysical analysis of the interaction of the serum protein human β 2GPI with bacterial lipopolysaccharide. <i>FEBS Open Bio</i> , 2014, 4, 432-440. | 1.0 | 5 |
| 30 | Interaction Between Host Defence Peptides and Mycobacterial Membranes. <i>Biophysical Journal</i> , 2014, 106, 507a. | 0.2 | 0 |
| 31 | Cellular distribution of lipid A and LPS R595 after in vitro application to isolated human monocytes by freeze-fracture replica immunogold-labelling. <i>Innate Immunity</i> , 2013, 19, 588-595. | 1.1 | 1 |
| 32 | Structure and function of a unique pore-forming protein from a pathogenic acanthamoeba. <i>Nature Chemical Biology</i> , 2013, 9, 37-42. | 3.9 | 36 |
| 33 | Surface activity and structures of two fragments of the human antimicrobial LL-37. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 129-135. | 2.5 | 17 |
| 34 | Preclinical Investigations Reveal the Broad-Spectrum Neutralizing Activity of Peptide Pep19-2.5 on Bacterial Pathogenicity Factors. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1480-1487. | 1.4 | 78 |
| 35 | Lipid Labeling Facilitates a Novel Magnetic Isolation Procedure to Characterize Pathogen-Containing Phagosomes. <i>Traffic</i> , 2013, 14, 321-336. | 1.3 | 23 |
| 36 | Biophysical Mechanisms of the Neutralization of Endotoxins by Lipopolyamines. <i>The Open Biochemistry Journal</i> , 2013, 7, 82-93. | 0.3 | 8 |

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|----|---|-----|-----------|
| 37 | Biophysical investigations into the interactions of endotoxins with bile acids. <i>Innate Immunity</i> , 2012, 18, 307-317. | 1.1 | 3 |
| 38 | Modulation of enrofloxacin binding in OmpF by Mg ²⁺ as revealed by the analysis of fast flickering single-porin current. <i>Journal of General Physiology</i> , 2012, 140, 69-82. | 0.9 | 23 |
| 39 | Bacterial Cell Wall Compounds as Promising Targets of Antimicrobial Agents II. Immunological and Clinical Aspects. <i>Current Drug Targets</i> , 2012, 13, 1131-1137. | 1.0 | 10 |
| 40 | Structure-Activity Analysis of the Dermcidin-derived Peptide DCD-1L, an Anionic Antimicrobial Peptide Present in Human Sweat. <i>Journal of Biological Chemistry</i> , 2012, 287, 8434-8443. | 1.6 | 85 |
| 41 | Bacterial Cell Wall Compounds as Promising Targets of Antimicrobial Agents I. Antimicrobial Peptides and Lipopolyamines. <i>Current Drug Targets</i> , 2012, 13, 1121-1130. | 1.0 | 62 |
| 42 | Morphology, size distribution, and aggregate structure of lipopolysaccharide and lipid A dispersions from enterobacterial origin. <i>Innate Immunity</i> , 2011, 17, 427-438. | 1.1 | 54 |
| 43 | Biophysical Mechanisms of Endotoxin Neutralization by Cationic Amphiphilic Peptides. <i>Biophysical Journal</i> , 2011, 100, 2652-2661. | 0.2 | 111 |
| 44 | Peptide-based treatment of sepsis. <i>Applied Microbiology and Biotechnology</i> , 2011, 90, 799-808. | 1.7 | 41 |
| 45 | Multiple Peptide Resistance Factor (MprF)-mediated Resistance of <i>Staphylococcus aureus</i> against Antimicrobial Peptides Coincides with a Modulated Peptide Interaction with Artificial Membranes Comprising Lysyl-Phosphatidylglycerol. <i>Journal of Biological Chemistry</i> , 2011, 286, 18692-18700. | 1.6 | 84 |
| 46 | Impact of the glycostructure of amphiphilic membrane components on the function of the outer membrane of Gram-negative bacteria as a matrix for incorporated channels and a target for antimicrobial peptides or proteins. <i>European Journal of Cell Biology</i> , 2010, 89, 11-23. | 1.6 | 37 |
| 47 | Molecular basis for endotoxin neutralization by amphipathic peptides derived from the α -helical cationic core-region of NK-lysin. <i>Biophysical Chemistry</i> , 2010, 150, 80-87. | 1.5 | 31 |
| 48 | New Antiseptic Peptides To Protect against Endotoxin-Mediated Shock. <i>Antimicrobial Agents and Chemotherapy</i> , 2010, 54, 3817-3824. | 1.4 | 111 |
| 49 | Quantitative determination of ion distributions in bacterial lipopolysaccharide membranes by grazing-incidence X-ray fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 9147-9151. | 3.3 | 112 |
| 50 | Effect of Matrix Elasticity on the Maintenance of the Chondrogenic Phenotype. <i>Tissue Engineering - Part A</i> , 2010, 16, 1281-1290. | 1.6 | 109 |
| 51 | Physicochemical and Biological Characterization of Anti-Endotoxin Peptides and Their Influence on Lipid Properties. <i>Protein and Peptide Letters</i> , 2010, 17, 1328-1333. | 0.4 | 10 |
| 52 | Dermcidin-Derived Peptides Show a Different Mode of Action than the Cathelicidin LL-37 against <i>Staphylococcus aureus</i> . <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 2499-2509. | 1.4 | 61 |
| 53 | Membrane activity of a α -reactive protein. <i>FEBS Letters</i> , 2009, 583, 1001-1005. | 1.3 | 6 |
| 54 | Hydramacin-1, Structure and Antibacterial Activity of a Protein from the Basal Metazoan Hydra. <i>Journal of Biological Chemistry</i> , 2009, 284, 1896-1905. | 1.6 | 107 |

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|----|---|-----|-----------|
| 55 | Structural polymorphism of hydrated ether-linked dimyristyl maltoside and melibioside. <i>Chemistry and Physics of Lipids</i> , 2008, 151, 18-29. | 1.5 | 9 |
| 56 | Surface Acoustic Wave Biosensor as a Tool to Study the Interaction of Antimicrobial Peptides with Phospholipid and Lipopolysaccharide Model Membranes. <i>Langmuir</i> , 2008, 24, 9148-9153. | 1.6 | 54 |
| 57 | Physicochemical and Biological Analysis of Synthetic Bacterial Lipopeptides. <i>Journal of Biological Chemistry</i> , 2007, 282, 11030-11037. | 1.6 | 48 |
| 58 | The physicochemistry of endotoxins in relation to bioactivity. <i>International Journal of Medical Microbiology</i> , 2007, 297, 341-352. | 1.5 | 98 |
| 59 | Thermodynamic Analysis of the Lipopolysaccharide-Dependent Resistance of Gram-Negative Bacteria against Polymyxin B. <i>Biophysical Journal</i> , 2007, 92, 2796-2805. | 0.2 | 54 |
| 60 | Structural preferences of dioleoyl glycolipids with mono- and disaccharide head groups. <i>Chemistry and Physics of Lipids</i> , 2007, 149, 52-58. | 1.5 | 10 |
| 61 | Sacrificial Bonds and Hidden Length: Unraveling Molecular Mesostructures in Tough Materials. <i>Biophysical Journal</i> , 2006, 90, 1411-1418. | 0.2 | 273 |
| 62 | The mode of action of the lantibiotic lactacin 3147 - a complex mechanism involving specific interaction of two peptides and the cell wall precursor lipid II. <i>Molecular Microbiology</i> , 2006, 61, 285-296. | 1.2 | 202 |
| 63 | Mechanisms of endotoxin neutralization by synthetic cationic compounds. <i>Journal of Endotoxin Research</i> , 2006, 12, 261-277. | 2.5 | 48 |
| 64 | Localization of the Lipopolysaccharide-binding Protein in Phospholipid Membranes by Atomic Force Microscopy. <i>Journal of Biological Chemistry</i> , 2006, 281, 2757-2763. | 1.6 | 26 |
| 65 | Probing the Properties of Lipopolysaccharide Monolayers and Their Interaction with the Antimicrobial Peptide Polymyxin B by Atomic Force Microscopy. <i>Langmuir</i> , 2005, 21, 6970-6978. | 1.6 | 37 |
| 66 | Sacrificial Bonds in Polymer Brushes from Rat Tail Tendon Functioning as Nanoscale Velcro. <i>Biophysical Journal</i> , 2005, 89, 536-542. | 0.2 | 21 |
| 67 | Giant Bent-Core Mesogens in the Thread Forming Process of Marine Mussels. <i>Biomacromolecules</i> , 2004, 5, 1351-1355. | 2.6 | 57 |
| 68 | Correlation of AFM and SFA Measurements Concerning the Stability of Supported Lipid Bilayers. <i>Biophysical Journal</i> , 2004, 86, 870-879. | 0.2 | 68 |
| 69 | Inner Field Compensation as a Tool for the Characterization of Asymmetric Membranes and Peptide-Membrane Interactions. <i>Biophysical Journal</i> , 2004, 86, 913-922. | 0.2 | 23 |
| 70 | Force Spectroscopy of Collagen Fibers to Investigate Their Mechanical Properties and Structural Organization. <i>Biophysical Journal</i> , 2004, 86, 3186-3193. | 0.2 | 111 |
| 71 | Investigations into the polymorphism of rat tail tendon fibrils using atomic force microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2003, 303, 508-513. | 1.0 | 38 |
| 72 | Evidence that Collagen Fibrils in Tendons Are Inhomogeneously Structured in a Tubelike Manner. <i>Biophysical Journal</i> , 2003, 84, 2593-2598. | 0.2 | 109 |

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|----|---|-----|-----------|
| 73 | Towards antibacterial strategies: studies on the mechanisms of interaction between antibacterial peptides and model membranes. <i>Journal of Endotoxin Research</i> , 2003, 9, 67-84. | 2.5 | 34 |
| 74 | Surfactant Protein A Inhibits Lipopolysaccharide-Induced Immune Cell Activation by Preventing the Interaction of Lipopolysaccharide with Lipopolysaccharide-Binding Protein. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2002, 27, 353-360. | 1.4 | 55 |
| 75 | Pore Formation and Function of Phosphoprotein PhoE of <i>Escherichia coli</i> Are Determined by the Core Sugar Moiety of Lipopolysaccharide. <i>Journal of Biological Chemistry</i> , 2002, 277, 34247-34253. | 1.6 | 26 |
| 76 | Innate recognition of bacteria: engagement of multiple receptors. <i>Critical Reviews in Immunology</i> , 2002, 22, 251-68. | 1.0 | 16 |
| 77 | Interaction of CAP18-Derived Peptides with Membranes Made from Endotoxins or Phospholipids. <i>Biophysical Journal</i> , 2001, 80, 2935-2945. | 0.2 | 62 |
| 78 | Dual Role of Lipopolysaccharide (LPS)-Binding Protein in Neutralization of LPS and Enhancement of LPS-Induced Activation of Mononuclear Cells. <i>Infection and Immunity</i> , 2001, 69, 6942-6950. | 1.0 | 187 |
| 79 | Lipopolysaccharide-binding protein-mediated interaction of lipid A from different origin with phospholipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4521-4528. | 1.3 | 46 |