

Cheryl A Nickerson

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

3,517
citations

136950

32
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

3287
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A vision for spaceflight microbiology to enable human health and habitat sustainability. <i>Nature Microbiology</i> , 2022, 7, 471-474. | 13.3 | 3 |
| 2 | Evaluating the effect of spaceflight on the host-pathogen interaction between human intestinal epithelial cells and <i>Salmonella Typhimurium</i> . <i>Npj Microgravity</i> , 2021, 7, 9. | 3.7 | 10 |
| 3 | Modeling Host-Pathogen Interactions in the Context of the Microenvironment: Three-Dimensional Cell Culture Comes of Age. <i>Infection and Immunity</i> , 2018, 86, . | 2.2 | 108 |
| 4 | Gene Expression Profiling and Assessment of Vitamin D and Serotonin Pathway Variations in Patients With Irritable Bowel Syndrome. <i>Journal of Neurogastroenterology and Motility</i> , 2018, 24, 96-106. | 2.4 | 20 |
| 5 | Antimicrobial efficacy against <i>Pseudomonas aeruginosa</i> biofilm formation in a three-dimensional lung epithelial model and the influence of fetal bovine serum. <i>Scientific Reports</i> , 2017, 7, 43321. | 3.3 | 62 |
| 6 | Three-dimensional organotypic co-culture model of intestinal epithelial cells and macrophages to study <i>Salmonella enterica</i> colonization patterns. <i>Npj Microgravity</i> , 2017, 3, 10. | 3.7 | 45 |
| 7 | A three-dimensional culture system recapitulates placental syncytiotrophoblast development and microbial resistance. <i>Science Advances</i> , 2016, 2, e1501462. | 10.3 | 86 |
| 8 | Outpacing Infectious Disease: Mimicking the Host-Pathogen Microenvironment in Three-Dimensions. , 2016, , 93-119. | | 2 |
| 9 | Spaceflight modulates gene expression in the whole blood of astronauts. <i>Npj Microgravity</i> , 2016, 2, 16039. | 3.7 | 36 |
| 10 | Physiological fluid shear alters the virulence potential of invasive multidrug-resistant non-typhoidal <i>Salmonella Typhimurium</i> D23580. <i>Npj Microgravity</i> , 2016, 2, 16021. | 3.7 | 17 |
| 11 | A Three-Dimensional Cell Culture Model To Study Enterovirus Infection of Polarized Intestinal Epithelial Cells. <i>MSphere</i> , 2016, 1, . | 2.9 | 41 |
| 12 | Biomedical Advances in Three Dimensions: An Overview of Human Cellular Studies in Space and Spaceflight Analogues. , 2016, , 83-92. | | 0 |
| 13 | Recellularization of Decellularized Lung Scaffolds Is Enhanced by Dynamic Suspension Culture. <i>PLoS ONE</i> , 2015, 10, e0126846. | 2.5 | 58 |
| 14 | Characterization of the Invasive, Multidrug Resistant Non-typhoidal <i>Salmonella</i> Strain D23580 in a Murine Model of Infection. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003839. | 3.0 | 40 |
| 15 | Mimicking the host and its microenvironment <i>in vitro</i> for studying mucosal infections by <i>Pseudomonas aeruginosa</i> . <i>Pathogens and Disease</i> , 2014, 71, 1-19. | 2.0 | 43 |
| 16 | Conservation of the Low-shear Modeled Microgravity Response in Enterobacteriaceae and Analysis of the trp Genes in this Response. <i>Open Microbiology Journal</i> , 2014, 8, 51-58. | 0.7 | 30 |
| 17 | Spaceflight Enhances Cell Aggregation and Random Budding in <i>Candida albicans</i> . <i>PLoS ONE</i> , 2013, 8, e80677. | 2.5 | 80 |
| 18 | Glycerol Supplementation Enhances <i>L. reuteri</i> 's Protective Effect against <i>S. Typhimurium</i> Colonization in a 3-D Model of Colonic Epithelium. <i>PLoS ONE</i> , 2012, 7, e37116. | 2.5 | 45 |

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|----|---|------|-----------|
| 19 | New Insights into the Bacterial Fitness-Associated Mechanisms Revealed by the Characterization of Large Plasmids of an Avian Pathogenic <i>E. coli</i> . PLoS ONE, 2012, 7, e29481. | 2.5 | 24 |
| 20 | Evaluation of Microorganisms Cultured from Injured and Repressed Tissue Regeneration Sites in Endangered Giant Aquatic Ozark Hellbender Salamanders. PLoS ONE, 2011, 6, e28906. | 2.5 | 24 |
| 21 | Alveolar epithelium protects macrophages from quorum sensing-induced cytotoxicity in a three-dimensional co-culture model. Cellular Microbiology, 2011, 13, 469-481. | 2.1 | 36 |
| 22 | Transcriptional and Proteomic Responses of <i>Pseudomonas aeruginosa</i> PAO1 to Spaceflight Conditions Involve Hfq Regulation and Reveal a Role for Oxygen. Applied and Environmental Microbiology, 2011, 77, 1221-1230. | 3.1 | 157 |
| 23 | Induction of Attachment-Independent Biofilm Formation and Repression of <i>hfq</i> Expression by Low-Fluid-Shear Culture of <i>Staphylococcus aureus</i> . Applied and Environmental Microbiology, 2011, 77, 6368-6378. | 3.1 | 111 |
| 24 | The generation of 3-D tissue models based on hyaluronan hydrogel-coated microcarriers within a rotating wall vessel bioreactor. Biomaterials, 2010, 31, 8426-8435. | 11.4 | 90 |
| 25 | Organotypic 3D cell culture models: using the rotating wall vessel to study host-pathogen interactions. Nature Reviews Microbiology, 2010, 8, 791-801. | 28.6 | 257 |
| 26 | Response of <i>Pseudomonas aeruginosa</i> PAO1 to low shear modelled microgravity involves AlgU regulation. Environmental Microbiology, 2010, 12, 1545-1564. | 3.8 | 95 |
| 27 | Analysis of Interactions of Salmonella Type Three Secretion Mutants with 3-D Intestinal Epithelial Cells. PLoS ONE, 2010, 5, e15750. | 2.5 | 54 |
| 28 | Development and Characterization of a Three-Dimensional Organotypic Human Vaginal Epithelial Cell Model. Biology of Reproduction, 2010, 82, 617-627. | 2.7 | 87 |
| 29 | Closing the phenotypic gap between transformed neuronal cell lines in culture and untransformed neurons. Journal of Neuroscience Methods, 2008, 174, 31-41. | 2.5 | 35 |
| 30 | Skim milk enhances the preservation of thawed -80°C bacterial stocks. Journal of Microbiological Methods, 2008, 75, 135-138. | 1.6 | 55 |
| 31 | Media Ion Composition Controls Regulatory and Virulence Response of Salmonella in Spaceflight. PLoS ONE, 2008, 3, e3923. | 2.5 | 133 |
| 32 | Novel Quantitative Biosystem for Modeling Physiological Fluid Shear Stress on Cells. Applied and Environmental Microbiology, 2007, 73, 699-705. | 3.1 | 60 |
| 33 | In Vitro Cell Culture Infectivity Assay for Human Noroviruses. Emerging Infectious Diseases, 2007, 13, 396-403. | 4.3 | 246 |
| 34 | Studying Host-Pathogen Interactions in 3-D: Organotypic Models for Infectious Disease and Drug Development. Journal of NeuroImmune Pharmacology, 2007, 2, 26-31. | 4.1 | 60 |
| 35 | Cell Culture Assay for Human Noroviruses. Emerging Infectious Diseases, 2007, 13, 1117-1118. | 4.3 | 3 |
| 36 | Three-dimensional organotypic models of human colonic epithelium to study the early stages of enteric salmonellosis. Microbes and Infection, 2006, 8, 1813-1825. | 1.9 | 91 |

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|----|---|-----|-----------|
| 37 | Microbial Responses to Microgravity and Other Low-Shear Environments. <i>Microbiology and Molecular Biology Reviews</i> , 2004, 68, 345-361. | 6.6 | 302 |
| 38 | Low-shear modeled microgravity: a global environmental regulatory signal affecting bacterial gene expression, physiology, and pathogenesis. <i>Journal of Microbiological Methods</i> , 2003, 54, 1-11. | 1.6 | 128 |
| 39 | Microarray analysis identifies <i>Salmonella</i> genes belonging to the low-shear modeled microgravity regulon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 13807-13812. | 7.1 | 144 |
| 40 | Low-Shear Modeled Microgravity Alters the <i>Salmonella enterica</i> Serovar Typhimurium Stress Response in an RpoS-Independent Manner. <i>Applied and Environmental Microbiology</i> , 2002, 68, 5408-5416. | 3.1 | 122 |
| 41 | MlrA, a novel regulator of curli (AgF) and extracellular matrix synthesis by <i>Escherichia coli</i> and <i>Salmonella enterica</i> serovar Typhimurium. <i>Molecular Microbiology</i> , 2001, 41, 349-363. | 2.5 | 160 |
| 42 | Three-Dimensional Tissue Assemblies: Novel Models for the Study of <i>Salmonella enterica</i> Serovar Typhimurium Pathogenesis. <i>Infection and Immunity</i> , 2001, 69, 7106-7120. | 2.2 | 117 |
| 43 | Microgravity as a Novel Environmental Signal Affecting <i>Salmonella enterica</i> Serovar Typhimurium Virulence. <i>Infection and Immunity</i> , 2000, 68, 3147-3152. | 2.2 | 194 |
| 44 | Spaceflight Analogue Culture Enhances the Host-Pathogen Interaction Between <i>Salmonella</i> and a 3-D Biomimetic Intestinal Co-Culture Model. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, . | 3.9 | 6 |