Renate Lux

List of Publications by Year
in descending order

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87 papers	4,598 citations	101543 36 h-index	114465 63 g-index
89 all docs	89 docs citations	89 times ranked	5536 citing authors

#	Article	IF	Citations
1	Oral Microbiome: Streptococcus mutans/Caries Concordant-Discordant Children. Frontiers in Microbiology, 2022, 13, 782825.	3.5	11
2	Clinical evaluation of Er,Cr:YSGG laser therapy used as an adjunct to nonâ€surgical treatment of periodontitis: Twelveâ€month results from a pilot study. Journal of Periodontology, 2022, 93, 1314-1324.	3.4	3
3	The impact of fixed orthodontic appliances and clear aligners on the oral microbiome and the association with clinical parameters: A longitudinal comparative study. American Journal of Orthodontics and Dentofacial Orthopedics, 2022, 161, e475-e485.	1.7	21
4	Effect of Cigarette and E-Cigarette Smoke Condensates on Candida albicans Biofilm Formation and Gene Expression. International Journal of Environmental Research and Public Health, 2022, 19, 4626.	2.6	5
5	The Microbiome in Periodontitis and Diabetes. Frontiers in Oral Health, 2022, 3, 859209.	3.0	12
6	A Denture Use Model Associated with Candida spp. in Immunocompetent Male and Female Rats. Journal of Fungi (Basel, Switzerland), 2022, 8, 466.	3.5	1
7	Tooth-Specific Streptococcus mutans Distribution and Associated Microbiome. Microorganisms, 2022, 10, 1129.	3.6	3
8	Fusobacterium nucleatum Adheres to Clostridioides difficile via the RadD Adhesin to Enhance Biofilm Formation in Intestinal Mucus. Gastroenterology, 2021, 160, 1301-1314.e8.	1.3	46
9	Omics and interspecies interaction. Periodontology 2000, 2021, 85, 101-111.	13.4	10
10	Fusobacterium nucleatum secretes amyloidâ€like FadA to enhance pathogenicity. EMBO Reports, 2021, 22, e52891.	4.5	61
11	Surface Characterization and Assessment of Biofilm Formation on Two Titanium-Based Implant Coating Materials. Frontiers in Dental Medicine, 2021, 2, .	1.4	6
12	The subgingival microbiome associated with periodontitis in type 2 diabetes mellitus. ISME Journal, 2020, 14, 519-530.	9.8	65
13	Role of FAD-I in Fusobacterial Interspecies Interaction and Biofilm Formation. Microorganisms, 2020, 8, 70.	3.6	7
14	Histone Lys demethylase KDM3C demonstrates antiâ€inflammatory effects by suppressing NFâ€ºB signaling and osteoclastogenesis. FASEB Journal, 2019, 33, 10515-10527.	0.5	18
15	Klebsiella and Providencia emerge as lone survivors following long-term starvation of oral microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8499-8504.	7.1	30
16	Ultraviolet Light Treatment of Titanium Suppresses Human Oral Bacterial Attachment and Biofilm Formation: A Short-Term In Vitro Study. International Journal of Oral and Maxillofacial Implants, 2019, 34, 1105-1113.	1.4	12
17	The Oral Bacterium Fusobacterium nucleatum Binds Staphylococcus aureus and Alters Expression of the Staphylococcal Accessory Regulator sarA. Microbial Ecology, 2019, 78, 336-347.	2.8	22
18	Quorum Sensing Modulates the Epibiotic-Parasitic Relationship Between Actinomyces odontolyticus and Its Saccharibacteria epibiont, a Nanosynbacter lyticus Strain, TM7x. Frontiers in Microbiology, 2018, 9, 2049.	3.5	32

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19	Conceptual Perspectives: Bacterial Antimicrobial Peptide Induction as a Novel Strategy for Symbiosis with the Human Host. Frontiers in Microbiology, 2018, 9, 302.	3.5	24
20	Streptococcus mutans SpaP binds to RadD of Fusobacterium nucleatum ssp. polymorphum. Molecular Oral Microbiology, 2017, 32, 355-364.	2.7	42
21	Identification and characterization of a novel Fusobacterium nucleatum adhesin involved in physical interaction and biofilm formation with Streptococcus gordonii. MicrobiologyOpen, 2017, 6, e00444.	3.0	57
22	Effect of titanium and zirconia dental implant abutments on a cultivable polymicrobial saliva community. Journal of Prosthetic Dentistry, 2017, 118, 481-487.	2.8	26
23	The well-coordinated linkage between acidogenicity and aciduricity via insoluble glucans on the surface of Streptococcus mutans. Scientific Reports, 2016, 5, 18015.	3.3	64
24	The Denture-Associated Oral Microbiome in Health and Stomatitis. MSphere, 2016, 1, .	2.9	44
25	Interplay between type IV pili activity and exopolysaccharides secretion controls motility patterns in single cells of Myxococcus xanthus. Scientific Reports, 2016, 6, 17790.	3.3	18
26	Characterization of Fusobacterium nucleatum ATCC 23726 adhesins involved in strain-specific attachment to Porphyromonas gingivalis. International Journal of Oral Science, 2016, 8, 138-144.	8.6	32
27	FAD-I, a Fusobacterium nucleatum Cell Wall-Associated Diacylated Lipoprotein That Mediates Human Beta Defensin 2 Induction through Toll-Like Receptor-1/2 (TLR-1/2) and TLR-2/6. Infection and Immunity, 2016, 84, 1446-1456.	2.2	30
28	Phenotypic and Physiological Characterization of the Epibiotic Interaction Between TM7x and Its Basibiont Actinomyces. Microbial Ecology, 2016, 71, 243-255.	2.8	68
29	Impact of Physical Chemical Characteristics of Abutment Implant Surfaces on Bacteria Adhesion. Journal of Oral Implantology, 2016, 42, 153-158.	1.0	38
30	Meta-omics uncover temporal regulation of pathways across oral microbiome genera during in vitro sugar metabolism. ISME Journal, 2015, 9, 2605-2619.	9.8	63
31	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 244-249.	7.1	405
32	Effect of UV-photofunctionalization on oral bacterial attachment and biofilm formation to titanium implant material. Biomaterials, 2015, 67, 84-92.	11.4	106
33	Precision-guided antimicrobial peptide as a targeted modulator of human microbial ecology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 7569-7574.	7.1	135
34	Dynamic Changes in the Subgingival Microbiome and Their Potential for Diagnosis and Prognosis of Periodontitis. MBio, 2015, 6, e01926-14.	4.1	139
35	Development of In Vitro Denture Biofilm Models for Halitosis Related Bacteria and their Application in Testing the Efficacy of Antimicrobial Agents. Open Dentistry Journal, 2015, 9, 125-131.	0.5	9
36	The social structure of microbial community involved in colonization resistance. ISME Journal, 2014, 8, 564-574.	9.8	83

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37	Characterization of aid1, a Novel Gene Involved in Fusobacterium nucleatum Interspecies Interactions. Microbial Ecology, 2014, 68, 379-387.	2.8	53
38	Chromosomal DNA deletion confers phage resistance to Pseudomonas aeruginosa. Scientific Reports, 2014, 4, 4738.	3.3	84
39	Transcriptional Responses of Treponema denticola to Other Oral Bacterial Species. PLoS ONE, 2014, 9, e88361.	2.5	16
40	Killing of Escherichia coli by Myxococcus xanthus in Aqueous Environments Requires Exopolysaccharide-Dependent Physical Contact. Microbial Ecology, 2013, 66, 630-638.	2.8	20
41	An in vitrobiofilm model system maintaining a highly reproducible species and metabolic diversity approaching that of the human oral microbiome. Microbiome, 2013, 1, 25.	11.1	106
42	Development of a New Model System to Study Microbial Colonization on Dentures. Journal of Prosthodontics, 2013, 22, 344-350.	3.7	17
43	Mapping the Tail Fiber as the Receptor Binding Protein Responsible for Differential Host Specificity of Pseudomonas aeruginosa Bacteriophages PaP1 and JG004. PLoS ONE, 2013, 8, e68562.	2.5	118
44	Investigating Acid Production by Streptococcus mutans with a Surface-Displayed pH-Sensitive Green Fluorescent Protein. PLoS ONE, 2013, 8, e57182.	2.5	42
45	The clpB gene is involved in the stress response of Myxococcus xanthus during vegetative growth and development. Microbiology (United Kingdom), 2012, 158, 2336-2343.	1.8	10
46	DNA Builds and Strengthens the Extracellular Matrix in Myxococcus xanthus Biofilms by Interacting with Exopolysaccharides. PLoS ONE, 2012, 7, e51905.	2.5	57
47	Effects of exopolysaccharide production on liquid vegetative growth, stress survival, and stationary phase recovery in Myxococcus xanthus. Journal of Microbiology, 2012, 50, 241-248.	2.8	11
48	The Influence of Iron Availability on Human Salivary Microbial Community Composition. Microbial Ecology, 2012, 64, 152-161.	2.8	28
49	Direct visualization of the interaction between pilin and exopolysaccharides of Myxococcus xanthus with eGFP-fused PilA protein. FEMS Microbiology Letters, 2012, 326, 23-30.	1.8	21
50	Adherence to Streptococci Facilitates Fusobacterium nucleatum Integration into an Oral Microbial Community. Microbial Ecology, 2012, 63, 532-542.	2.8	43
51	Identifying Low pH Active and Lactate-Utilizing Taxa within Oral Microbiome Communities from Healthy Children Using Stable Isotope Probing Techniques. PLoS ONE, 2012, 7, e32219.	2.5	49
52	Co-Localized or Randomly Distributed? Pair Cross Correlation of In Vivo Grown Subgingival Biofilm Bacteria Quantified by Digital Image Analysis. PLoS ONE, 2012, 7, e37583.	2.5	39
53	Analysis of interspecies adherence of oral bacteria using a membrane binding assay coupled with polymerase chain reactionâ€denaturing gradient gel electrophoresis profiling. International Journal of Oral Science, 2011, 3, 90-97.	8.6	6
54	Development and evaluation of a safe and effective sugarâ€free herbal lollipop that kills cavityâ€causing bacteria. International Journal of Oral Science, 2011, 3, 13-20.	8.6	55

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55	Molecular Characterization of the Microbial Flora Residing at the Apical Portion of Infected Root Canals of Human Teeth. Journal of Endodontics, 2011, 37, 1359-1364.	3.1	46
56	Exopolysaccharide-Independent Social Motility of Myxococcus xanthus. PLoS ONE, 2011, 6, e16102.	2.5	24
57	Experimentally Guided Computational Model Discovers Important Elements for Social Behavior in Myxobacteria. PLoS ONE, 2011, 6, e22169.	2.5	7
58	Natural Transformation of Myxococcus xanthus. Journal of Bacteriology, 2011, 193, 2122-2132.	2.2	20
59	Alanine 32 in PilA is important for PilA stability and type IV pili function in Myxococcus xanthus. Microbiology (United Kingdom), 2011, 157, 1920-1928.	1.8	13
60	Rapid Probing of Biological Surfaces with a Sparse-Matrix Peptide Library. PLoS ONE, 2011, 6, e23551.	2.5	7
61	Oral-Derived Bacterial Flora Defends Its Domain by Recognizing and Killing Intrudersâ€"A Molecular Analysis Using Escherichia coli as a Model Intestinal Bacterium. Microbial Ecology, 2010, 60, 655-664.	2.8	29
62	In Vitro Communities Derived from Oral and Gut Microbial Floras Inhibit the Growth of Bacteria of Foreign Origins. Microbial Ecology, 2010, 60, 665-676.	2.8	18
63	Design and Characterization of an Acidâ€Activated Antimicrobial Peptide. Chemical Biology and Drug Design, 2010, 75, 127-132.	3.2	55
64	PilA localization affects extracellular polysaccharide production and fruiting body formation in Myxococcus xanthus. Molecular Microbiology, 2010, 76, 1500-1513.	2.5	36
65	Fusobacterium nucleatumOuter Membrane Proteins Fap2 and RadD Induce Cell Death in Human Lymphocytes. Infection and Immunity, 2010, 78, 4773-4778.	2.2	142
66	Targeted Antimicrobial Therapy Against Streptococcus mutans Establishes Protective Nonâ€cariogenic Oral Biofilms and Reduces Subsequent Infection. International Journal of Oral Science, 2010, 2, 66-73.	8.6	54
67	Transcriptional Profiles of Treponema denticola in Response to Environmental Conditions. PLoS ONE, 2010, 5, e13655.	2.5	15
68	Three-Dimensional Macromolecular Organization of Cryofixed Myxococcus xanthus Biofilms as Revealed by Electron Microscopic Tomography. Journal of Bacteriology, 2009, 191, 2077-2082.	2.2	80
69	The Fusobacterium nucleatum outer membrane protein RadD is an arginineâ€inhibitable adhesin required for interâ€species adherence and the structured architecture of multispecies biofilm. Molecular Microbiology, 2009, 71, 35-47.	2.5	173
70	Î²- d -Allose Inhibits Fruiting Body Formation and Sporulation in Myxococcus xanthus. Journal of Bacteriology, 2007, 189, 169-178.	2.2	17
71	Interspecies Interactions within Oral Microbial Communities. Microbiology and Molecular Biology Reviews, 2007, 71, 653-670.	6.6	461
72	Focal adhesion: getting a grasp on myxobacterial gliding. Nature Chemical Biology, 2007, 3, 205-206.	8.0	2

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73	A novel bacterial signalling system with a combination of a Ser/Thr kinase cascade and a His/Asp two-component system. Molecular Microbiology, 2005, 58, 345-348.	2.5	14
74	Analysis of type IV pilus and its associated motility in Myxococcus xanthus using an antibody reactive with native pilin and pili. Microbiology (United Kingdom), 2005, 151, 353-360.	1.8	25
75	Divergent Regulatory Pathways Control A and S Motility in Myxococcus xanthus through FrzE, a CheA-CheY Fusion Protein. Journal of Bacteriology, 2005, 187, 1716-1723.	2.2	17
76	Proteinâ€"protein interactions in the chemotaxis signalling pathway of Treponema denticola. Microbiology (United Kingdom), 2005, 151, 1801-1807.	1.8	13
77	In situ and non-invasive detection of specific bacterial species in oral biofilms using fluorescently labeled monoclonal antibodies. Journal of Microbiological Methods, 2005, 62, 145-160.	1.6	25
78	Inactivation of the ciaH Gene in Streptococcus mutans Diminishes Mutacin Production and Competence Development, Alters Sucrose-Dependent Biofilm Formation, and Reduces Stress Tolerance. Infection and Immunity, 2004, 72, 4895-4899.	2.2	122
79	Exopolysaccharide biosynthesis genes required for social motility in Myxococcus xanthus. Molecular Microbiology, 2004, 55, 206-220.	2.5	105
80	C<scp>hemotaxis-guided</scp> M<scp>ovements in</scp> B<scp>acteria</scp>. Critical Reviews in Oral Biology and Medicine, 2004, 15, 207-220.	4.4	74
81	Extracellular polysaccharides mediate pilus retraction during social motility of Myxococcus xanthus. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5443-5448.	7.1	235
82	Production and Characterization of Species-Specific Monoclonal Antibodies againstActinomyces naeslundiiandLactobacillus casei. Hybridoma, 2002, 21, 469-478.	0.4	4
83	Construction and Characterization of a cheA Mutant of Treponema denticola. Journal of Bacteriology, 2002, 184, 3130-3134.	2.2	30
84	Analyses ofStreptococcus mutansin Saliva with Species-Specific Monoclonal Antibodies. Hybridoma, 2002, 21, 225-232.	0.4	21
85	Determinants of chemotactic signal amplification in Escherichia coli. Journal of Molecular Biology, 2001, 307, 119-135.	4.2	57
86	Motility and Chemotaxis in Tissue Penetration of Oral Epithelial Cell Layers byTreponema denticola. Infection and Immunity, 2001, 69, 6276-6283.	2.2	109
87	Overproduced Salmonella typhimurium flagellar motor switch complexes. Journal of Molecular Biology, 2000, 298, 577-583.	4.2	23