

# 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  
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89  
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89  
docs citations

89  
times ranked

5536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interspecies Interactions within Oral Microbial Communities. <i>Microbiology and Molecular Biology Reviews</i> , 2007, 71, 653-670.	6.6	461
2	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 244-249.	7.1	405
3	Extracellular polysaccharides mediate pilus retraction during social motility of <i>Myxococcus xanthus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5443-5448.	7.1	235
4	The <i>Fusobacterium nucleatum</i> outer membrane protein RadD is an arginine-inhibitable adhesin required for inter-species adherence and the structured architecture of multispecies biofilm. <i>Molecular Microbiology</i> , 2009, 71, 35-47.	2.5	173
5	<i>Fusobacterium nucleatum</i> Outer Membrane Proteins Fap2 and RadD Induce Cell Death in Human Lymphocytes. <i>Infection and Immunity</i> , 2010, 78, 4773-4778.	2.2	142
6	Dynamic Changes in the Subgingival Microbiome and Their Potential for Diagnosis and Prognosis of Periodontitis. <i>MBio</i> , 2015, 6, e01926-14.	4.1	139
7	Precision-guided antimicrobial peptide as a targeted modulator of human microbial ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7569-7574.	7.1	135
8	Inactivation of the <i>ciaH</i> Gene in <i>Streptococcus mutans</i> Diminishes Mutacin Production and Competence Development, Alters Sucrose-Dependent Biofilm Formation, and Reduces Stress Tolerance. <i>Infection and Immunity</i> , 2004, 72, 4895-4899.	2.2	122
9	Mapping the Tail Fiber as the Receptor Binding Protein Responsible for Differential Host Specificity of <i>Pseudomonas aeruginosa</i> Bacteriophages PaP1 and JG004. <i>PLoS ONE</i> , 2013, 8, e68562.	2.5	118
10	Motility and Chemotaxis in Tissue Penetration of Oral Epithelial Cell Layers by <i>Treponema denticola</i> . <i>Infection and Immunity</i> , 2001, 69, 6276-6283.	2.2	109
11	An in vitro biofilm model system maintaining a highly reproducible species and metabolic diversity approaching that of the human oral microbiome. <i>Microbiome</i> , 2013, 1, 25.	11.1	106
12	Effect of UV-photofunctionalization on oral bacterial attachment and biofilm formation to titanium implant material. <i>Biomaterials</i> , 2015, 67, 84-92.	11.4	106
13	Exopolysaccharide biosynthesis genes required for social motility in <i>Myxococcus xanthus</i> . <i>Molecular Microbiology</i> , 2004, 55, 206-220.	2.5	105
14	Chromosomal DNA deletion confers phage resistance to <i>Pseudomonas aeruginosa</i> . <i>Scientific Reports</i> , 2014, 4, 4738.	3.3	84
15	The social structure of microbial community involved in colonization resistance. <i>ISME Journal</i> , 2014, 8, 564-574.	9.8	83
16	Three-Dimensional Macromolecular Organization of Cryofixed <i>Myxococcus xanthus</i> Biofilms as Revealed by Electron Microscopic Tomography. <i>Journal of Bacteriology</i> , 2009, 191, 2077-2082.	2.2	80
17	Chemotaxis-guided Movements in Bacteria. <i>Critical Reviews in Oral Biology and Medicine</i> , 2004, 15, 207-220.	4.4	74
18	Phenotypic and Physiological Characterization of the Epibiotic Interaction Between TM7x and Its Basibiont Actinomyces. <i>Microbial Ecology</i> , 2016, 71, 243-255.	2.8	68

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19	The subgingival microbiome associated with periodontitis in type 2 diabetes mellitus. ISME Journal, 2020, 14, 519-530.	9.8	65
20	The well-coordinated linkage between acidogenicity and aciduricity via insoluble glucans on the surface of <i>Streptococcus mutans</i> . Scientific Reports, 2016, 5, 18015.	3.3	64
21	Meta-omics uncover temporal regulation of pathways across oral microbiome genera during <i>in vitro</i> sugar metabolism. ISME Journal, 2015, 9, 2605-2619.	9.8	63
22	<i>Fusobacterium nucleatum</i> secretes amyloid-like FadA to enhance pathogenicity. EMBO Reports, 2021, 22, e52891.	4.5	61
23	Determinants of chemotactic signal amplification in <i>Escherichia coli</i> . Journal of Molecular Biology, 2001, 307, 119-135.	4.2	57
24	DNA Builds and Strengthens the Extracellular Matrix in <i>Myxococcus xanthus</i> Biofilms by Interacting with Exopolysaccharides. PLoS ONE, 2012, 7, e51905.	2.5	57
25	Identification and characterization of a novel <i>Fusobacterium nucleatum</i> adhesin involved in physical interaction and biofilm formation with <i>Streptococcus gordonii</i> . MicrobiologyOpen, 2017, 6, e00444.	3.0	57
26	Design and Characterization of an Acid-Activated Antimicrobial Peptide. Chemical Biology and Drug Design, 2010, 75, 127-132.	3.2	55
27	Development and evaluation of a safe and effective sugar-free herbal lollipop that kills cavity-causing bacteria. International Journal of Oral Science, 2011, 3, 13-20.	8.6	55
28	Targeted Antimicrobial Therapy Against <i>Streptococcus mutans</i> Establishes Protective Non-cariogenic Oral Biofilms and Reduces Subsequent Infection. International Journal of Oral Science, 2010, 2, 66-73.	8.6	54
29	Characterization of <i>aid1</i> , a Novel Gene Involved in <i>Fusobacterium nucleatum</i> Interspecies Interactions. Microbial Ecology, 2014, 68, 379-387.	2.8	53
30	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
31	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
32	<i>Fusobacterium nucleatum</i> Adheres to <i>Clostridioides difficile</i> via the RadD Adhesin to Enhance Biofilm Formation in Intestinal Mucus. Gastroenterology, 2021, 160, 1301-1314.e8.	1.3	46
33	The Denture-Associated Oral Microbiome in Health and Stomatitis. MSphere, 2016, 1, .	2.9	44
34	Adherence to Streptococci Facilitates <i>Fusobacterium nucleatum</i> Integration into an Oral Microbial Community. Microbial Ecology, 2012, 63, 532-542.	2.8	43
35	<i>Streptococcus mutans</i> SpaP binds to RadD of <i>Fusobacterium nucleatum</i> ssp. <i>polymorphum</i> . Molecular Oral Microbiology, 2017, 32, 355-364.	2.7	42
36	Investigating Acid Production by <i>Streptococcus mutans</i> with a Surface-Displayed pH-Sensitive Green Fluorescent Protein. PLoS ONE, 2013, 8, e57182.	2.5	42

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37	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
38	Impact of Physical Chemical Characteristics of Abutment Implant Surfaces on Bacteria Adhesion. Journal of Oral Implantology, 2016, 42, 153-158.	1.0	38
39	PilA localization affects extracellular polysaccharide production and fruiting body formation in Myxococcus xanthus. Molecular Microbiology, 2010, 76, 1500-1513.	2.5	36
40	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
41	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
42	Construction and Characterization of a cheA Mutant of Treponema denticola. Journal of Bacteriology, 2002, 184, 3130-3134.	2.2	30
43	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
44	<i>Klebsiella</i> and <i>Providencia</i> 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
45	Oral-Derived Bacterial Flora Defends Its Domain by Recognizing and Killing Intruders—A Molecular Analysis Using Escherichia coli as a Model Intestinal Bacterium. Microbial Ecology, 2010, 60, 655-664.	2.8	29
46	The Influence of Iron Availability on Human Salivary Microbial Community Composition. Microbial Ecology, 2012, 64, 152-161.	2.8	28
47	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
48	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
49	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
50	Exopolysaccharide-Independent Social Motility of Myxococcus xanthus. PLoS ONE, 2011, 6, e16102.	2.5	24
51	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
52	Overproduced Salmonella typhimurium flagellar motor switch complexes. Journal of Molecular Biology, 2000, 298, 577-583.	4.2	23
53	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
54	Analyses of Streptococcus mutans in Saliva with Species-Specific Monoclonal Antibodies. Hybridoma, 2002, 21, 225-232.	0.4	21

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55	Direct visualization of the interaction between pilin and exopolysaccharides of <i>Myxococcus xanthus</i> with eGFP-fused PilA protein. <i>FEMS Microbiology Letters</i> , 2012, 326, 23-30.	1.8	21
56	The impact of fixed orthodontic appliances and clear aligners on the oral microbiome and the association with clinical parameters: A longitudinal comparative study. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, e475-e485.	1.7	21
57	Natural Transformation of <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 2011, 193, 2122-2132.	2.2	20
58	Killing of <i>Escherichia coli</i> by <i>Myxococcus xanthus</i> in Aqueous Environments Requires Exopolysaccharide-Dependent Physical Contact. <i>Microbial Ecology</i> , 2013, 66, 630-638.	2.8	20
59	In Vitro Communities Derived from Oral and Gut Microbial Floras Inhibit the Growth of Bacteria of Foreign Origins. <i>Microbial Ecology</i> , 2010, 60, 665-676.	2.8	18
60	Interplay between type IV pili activity and exopolysaccharides secretion controls motility patterns in single cells of <i>Myxococcus xanthus</i> . <i>Scientific Reports</i> , 2016, 6, 17790.	3.3	18
61	Histone Lys demethylase KDM3C demonstrates anti-inflammatory effects by suppressing NF- $\kappa$ B signaling and osteoclastogenesis. <i>FASEB Journal</i> , 2019, 33, 10515-10527.	0.5	18
62	Divergent Regulatory Pathways Control A and S Motility in <i>Myxococcus xanthus</i> through FrzE, a CheA-CheY Fusion Protein. <i>Journal of Bacteriology</i> , 2005, 187, 1716-1723.	2.2	17
63	$\beta$ -D-Allose Inhibits Fruiting Body Formation and Sporulation in <i>Myxococcus xanthus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 169-178.	2.2	17
64	Development of a New Model System to Study Microbial Colonization on Dentures. <i>Journal of Prosthodontics</i> , 2013, 22, 344-350.	3.7	17
65	Transcriptional Responses of <i>Treponema denticola</i> to Other Oral Bacterial Species. <i>PLoS ONE</i> , 2014, 9, e88361.	2.5	16
66	Transcriptional Profiles of <i>Treponema denticola</i> in Response to Environmental Conditions. <i>PLoS ONE</i> , 2010, 5, e13655.	2.5	15
67	A novel bacterial signalling system with a combination of a Ser/Thr kinase cascade and a His/Asp two-component system. <i>Molecular Microbiology</i> , 2005, 58, 345-348.	2.5	14
68	Protein-protein interactions in the chemotaxis signalling pathway of <i>Treponema denticola</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 1801-1807.	1.8	13
69	Alanine 32 in PilA is important for PilA stability and type IV pili function in <i>Myxococcus xanthus</i> . <i>Microbiology (United Kingdom)</i> , 2011, 157, 1920-1928.	1.8	13
70	Ultraviolet Light Treatment of Titanium Suppresses Human Oral Bacterial Attachment and Biofilm Formation: A Short-Term In Vitro Study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2019, 34, 1105-1113.	1.4	12
71	The Microbiome in Periodontitis and Diabetes. <i>Frontiers in Oral Health</i> , 2022, 3, 859209.	3.0	12
72	Effects of exopolysaccharide production on liquid vegetative growth, stress survival, and stationary phase recovery in <i>Myxococcus xanthus</i> . <i>Journal of Microbiology</i> , 2012, 50, 241-248.	2.8	11

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73	Oral Microbiome: Streptococcus mutans/Caries Concordant-Discordant Children. <i>Frontiers in Microbiology</i> , 2022, 13, 782825.	3.5	11
74	The <i>clpB</i> gene is involved in the stress response of <i>Myxococcus xanthus</i> during vegetative growth and development. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2336-2343.	1.8	10
75	Omics and interspecies interaction. <i>Periodontology 2000</i> , 2021, 85, 101-111.	13.4	10
76	Development of In Vitro Denture Biofilm Models for Halitosis Related Bacteria and their Application in Testing the Efficacy of Antimicrobial Agents. <i>Open Dentistry Journal</i> , 2015, 9, 125-131.	0.5	9
77	Experimentally Guided Computational Model Discovers Important Elements for Social Behavior in Myxobacteria. <i>PLoS ONE</i> , 2011, 6, e22169.	2.5	7
78	Role of FAD-I in Fusobacterial Interspecies Interaction and Biofilm Formation. <i>Microorganisms</i> , 2020, 8, 70.	3.6	7
79	Rapid Probing of Biological Surfaces with a Sparse-Matrix Peptide Library. <i>PLoS ONE</i> , 2011, 6, e23551.	2.5	7
80	Analysis of interspecies adherence of oral bacteria using a membrane binding assay coupled with polymerase chain reaction-denaturing gradient gel electrophoresis profiling. <i>International Journal of Oral Science</i> , 2011, 3, 90-97.	8.6	6
81	Surface Characterization and Assessment of Biofilm Formation on Two Titanium-Based Implant Coating Materials. <i>Frontiers in Dental Medicine</i> , 2021, 2, .	1.4	6
82	Effect of Cigarette and E-Cigarette Smoke Condensates on <i>Candida albicans</i> Biofilm Formation and Gene Expression. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4626.	2.6	5
83	Production and Characterization of Species-Specific Monoclonal Antibodies against <i>Actinomyces naeslundii</i> and <i>Lactobacillus casei</i> . <i>Hybridoma</i> , 2002, 21, 469-478.	0.4	4
84	Clinical evaluation of Er,Cr:YSGG laser therapy used as an adjunct to non-surgical treatment of periodontitis: Twelve-month results from a pilot study. <i>Journal of Periodontology</i> , 2022, 93, 1314-1324.	3.4	3
85	Tooth-Specific <i>Streptococcus mutans</i> Distribution and Associated Microbiome. <i>Microorganisms</i> , 2022, 10, 1129.	3.6	3
86	Focal adhesion: getting a grasp on myxobacterial gliding. <i>Nature Chemical Biology</i> , 2007, 3, 205-206.	8.0	2
87	A Denture Use Model Associated with <i>Candida</i> spp. in Immunocompetent Male and Female Rats. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 466.	3.5	1