

# Ellen L Zechner

## List of Publications by Year in descending order

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64  
papers

3,116  
citations

159585

30  
h-index

168389

53  
g-index

66  
all docs

66  
docs citations

66  
times ranked

3198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conjugative DNA metabolism in Gram-negative bacteria. <i>FEMS Microbiology Reviews</i> , 2010, 34, 18-40.	8.6	318
2	Development and maturation of <i>Escherichia coli</i> K-12 biofilms. <i>Molecular Microbiology</i> , 2003, 48, 933-946.	2.5	303
3	In Vitro Biofilm Formation of Commensal and Pathogenic <i>Escherichia coli</i> Strains: Impact of Environmental and Genetic Factors. <i>Journal of Bacteriology</i> , 2006, 188, 3572-3581.	2.2	182
4	TraG-Like Proteins of DNA Transfer Systems and of the <i>Helicobacter pylori</i> Type IV Secretion System: Inner Membrane Gate for Exported Substrates?. <i>Journal of Bacteriology</i> , 2002, 184, 2767-2779.	2.2	148
5	Assembly and mechanisms of bacterial type IV secretion machines. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1073-1087.	4.0	142
6	Synergistic Effects in Mixed <i>Escherichia coli</i> Biofilms: Conjugative Plasmid Transfer Drives Biofilm Expansion. <i>Journal of Bacteriology</i> , 2006, 188, 3582-3588.	2.2	124
7	Gastric <i>Helicobacter pylori</i> Infection Affects Local and Distant Microbial Populations and Host Responses. <i>Cell Reports</i> , 2016, 14, 1395-1407.	6.4	122
8	Unsaturated fatty acids are inhibitors of bacterial conjugation. <i>Microbiology (United Kingdom)</i> , 2005, 151, 3517-3526.	1.8	100
9	Enterotoxicity of a nonribosomal peptide causes antibiotic-associated colitis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13181-13186.	7.1	96
10	Species-Specific Identification of <i>Campylobacters</i> by Partial 16S rRNA Gene Sequencing. <i>Journal of Clinical Microbiology</i> , 2003, 41, 2537-2546.	3.9	90
11	Genotypes of <i>Klebsiella oxytoca</i> Isolates from Patients with Nosocomial Pneumonia Are Distinct from Those of Isolates from Patients with Antibiotic-Associated Hemorrhagic Colitis. <i>Journal of Clinical Microbiology</i> , 2014, 52, 1607-1616.	3.9	69
12	Type 1 Fimbriae Contribute to Catheter-Associated Urinary Tract Infections Caused by <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2014, 196, 931-939.	2.2	68
13	Transmission of <i>Campylobacter hyointestinalis</i> from a Pig to a Human. <i>Journal of Clinical Microbiology</i> , 2002, 40, 2601-2605.	3.9	67
14	Inflammatory disease caused by intestinal pathobionts. <i>Current Opinion in Microbiology</i> , 2017, 35, 64-69.	5.1	60
15	Signal transduction and bacterial conjugation: characterization of the role of ArcA in regulating conjugative transfer of the resistance plasmid R1. <i>Journal of Molecular Biology</i> , 1998, 277, 309-316.	4.2	58
16	Molecular recognition determinants for type IV secretion of diverse families of conjugative relaxases. <i>Molecular Microbiology</i> , 2010, 78, 1539-1555.	2.5	57
17	Cryo-EM Structure of a Relaxase Reveals the Molecular Basis of DNA Unwinding during Bacterial Conjugation. <i>Cell</i> , 2017, 169, 708-721.e12.	28.9	56
18	Biosynthesis of the Enterotoxic Pyrrolbenzodiazepine Natural Product Tilivalline. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14753-14757.	13.8	55

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19	Tram of plasmid R1 controls transfer gene expression as an integrated control element in a complex regulatory network. <i>Molecular Microbiology</i> , 1997, 25, 495-507.	2.5	50
20	Cytotoxic Effects of <i>Klebsiella oxytoca</i> Strains Isolated from Patients with Antibiotic-Associated Hemorrhagic Colitis or Other Diseases Caused by Infections and from Healthy Subjects. <i>Journal of Clinical Microbiology</i> , 2010, 48, 817-824.	3.9	49
21	Antibiotic-Associated Hemorrhagic Colitis Caused by Cytotoxin-Producing <i>Klebsiella oxytoca</i> . <i>Pediatrics</i> , 2010, 125, e960-e963.	2.1	48
22	An activation domain of plasmid R1 Tral protein delineates stages of gene transfer initiation. <i>Molecular Microbiology</i> , 2011, 82, 1071-1085.	2.5	46
23	Transfer protein Tram stimulates Tral-catalyzed cleavage of the transfer origin of plasmid R1 in vivo 1 Edited by B. Holland. <i>Journal of Molecular Biology</i> , 1998, 275, 81-94.	4.2	45
24	<i>Klebsiella oxytoca</i> enterotoxins tilimycin and tilivalline have distinct host DNA-damaging and microtubule-stabilizing activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3774-3783.	7.1	45
25	A Genomic Island Defines Subspecies-Specific Virulence Features of the Host-Adapted Pathogen <i>Campylobacter fetus</i> subsp. <i>venerealis</i> . <i>Journal of Bacteriology</i> , 2010, 192, 502-517.	2.2	41
26	Structure of a translocation signal domain mediating conjugative transfer by type IV secretion systems. <i>Molecular Microbiology</i> , 2013, 89, 324-333.	2.5	40
27	A Translocation Motif in Relaxase TrwC Specifically Affects Recruitment by Its Conjugative Type IV Secretion System. <i>Journal of Bacteriology</i> , 2013, 195, 4999-5006.	2.2	36
28	Relaxases and Plasmid Transfer in Gram-Negative Bacteria. <i>Current Topics in Microbiology and Immunology</i> , 2017, 413, 93-113.	1.1	35
29	General Mutagenesis of F Plasmid Tral Reveals Its Role in Conjugative Regulation. <i>Journal of Bacteriology</i> , 2006, 188, 6346-6353.	2.2	34
30	Plasmid R1 Conjugative DNA Processing Is Regulated at the Coupling Protein Interface. <i>Journal of Bacteriology</i> , 2009, 191, 6877-6887.	2.2	33
31	In situ monitoring of IncF plasmid transfer on semi-solid agar surfaces reveals a limited invasion of plasmids in recipient colonies. <i>Plasmid</i> , 2012, 67, 155-161.	1.4	33
32	Comparative Genome Analysis of <i>Campylobacter fetus</i> Subspecies Revealed Horizontally Acquired Genetic Elements Important for Virulence and Niche Specificity. <i>PLoS ONE</i> , 2014, 9, e85491.	2.5	33
33	Recombinogenic engineering of conjugative plasmids with fluorescent marker cassettes. <i>FEMS Microbiology Ecology</i> , 2002, 42, 251-259.	2.7	27
34	Protein and DNA Effectors Control the Tral Conjugative Helicase of Plasmid R1. <i>Journal of Bacteriology</i> , 2009, 191, 6888-6899.	2.2	27
35	Interbacterial Macromolecular Transfer by the <i>Campylobacter fetus</i> subsp. <i>venerealis</i> Type IV Secretion System. <i>Journal of Bacteriology</i> , 2011, 193, 744-758.	2.2	27
36	Conjugative DNA Transfer Is Enhanced by Plasmid R1 Partitioning Proteins. <i>Frontiers in Molecular Biosciences</i> , 2016, 3, 32.	3.5	26

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37	Transfer Protein TraY of Plasmid R1 Stimulates Tral-Catalyzed oriT Cleavage In Vivo. <i>Journal of Bacteriology</i> , 2001, 183, 909-914.	2.2	25
38	General requirements for protein secretion by the F-like conjugation system R1. <i>Plasmid</i> , 2012, 67, 128-138.	1.4	25
39	So close and yet so far – Molecular microbiology of <i>Campylobacter fetus</i> subspecies. <i>European Journal of Microbiology and Immunology</i> , 2012, 2, 66-75.	2.8	23
40	Determination of specific DNA strand discontinuities with nucleotide resolution in exponentially growing bacteria harboring rolling circle-replicating plasmids. <i>FEMS Microbiology Letters</i> , 2006, 152, 363-369.	1.8	19
41	Pathogenesis of <i>Campylobacter fetus</i> . , 2014, , 401-428.		19
42	Tilivalline- and Tilimycin-Independent Effects of <i>Klebsiella oxytoca</i> on Tight Junction-Mediated Intestinal Barrier Impairment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5595.	4.1	19
43	Development of Experimental Genetic Tools for <i>Campylobacter fetus</i> . <i>Applied and Environmental Microbiology</i> , 2007, 73, 4619-4630.	3.1	18
44	The Toxin-Producing Pathobiont <i>Klebsiella oxytoca</i> Is Not Associated with Flares of Inflammatory Bowel Diseases. <i>Digestive Diseases and Sciences</i> , 2015, 60, 3393-3398.	2.3	16
45	Extent of Single-stranded DNA Required for Efficient Tral Helicase Activity in Vitro. <i>Journal of Biological Chemistry</i> , 2003, 278, 48696-48703.	3.4	15
46	Making and Breaking Leupeptin Protease Inhibitors in Pathogenic Gammaproteobacteria. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17872-17880.	13.8	15
47	Bacterial Indole as a Multifunctional Regulator of <i>Klebsiella oxytoca</i> Complex Enterotoxicity. <i>MBio</i> , 2022, 13, e0375221.	4.1	14
48	Fic Proteins of <i>Campylobacter fetus</i> subsp. <i>venerealis</i> Form a Network of Functional Toxin Antitoxin Systems. <i>Frontiers in Microbiology</i> , 2017, 8, 1965.	3.5	13
49	Concomitant Reconstitution of Tral-catalyzed DNA Transesterase and DNA Helicase Activity in Vitro. <i>Journal of Biological Chemistry</i> , 2004, 279, 45477-45484.	3.4	12
50	Common Requirement for the Relaxosome of Plasmid R1 in Multiple Activities of the Conjugative Type IV Secretion System. <i>Journal of Bacteriology</i> , 2014, 196, 2108-2121.	2.2	12
51	Variation in Accessory Genes Within the <i>Klebsiella oxytoca</i> Species Complex Delineates Monophyletic Members and Simplifies Coherent Genotyping. <i>Frontiers in Microbiology</i> , 2021, 12, 692453.	3.5	12
52	TrhR, TrhY and HtdA, a novel regulatory circuit that modulates conjugation of the IncHI plasmids. <i>Molecular Microbiology</i> , 2014, 94, 1146-1161.	2.5	10
53	Causes of hematochezia and hemorrhagic antibiotic-associated colitis in children and adolescents. <i>Medicine (United States)</i> , 2017, 96, e7793.	1.0	9
54	Toxin-Producing <i>Klebsiella oxytoca</i> in Healthy Infants. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2022, 74, .	1.8	9

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55	In vivo definition of the functional origin of leading strand replication on the lactococcal plasmid pFX2. <i>Molecular Genetics and Genomics</i> , 1998, 260, 38-47.	2.4	8
56	Simultaneous quantification of enterotoxins tilimycin and tilivalline in biological matrices using HPLC high resolution ESMS2 based on isotopically <sup>15</sup> N-labeled internal standards. <i>Talanta</i> , 2021, 222, 121677.	5.5	7
57	Functional analysis of the finO distal region of plasmid R1. <i>Plasmid</i> , 2011, 65, 159-168.	1.4	6
58	The transfer operon of plasmid R1 extends beyond finO into the downstream replication genes. <i>Plasmid</i> , 2011, 65, 150-158.	1.4	6
59	New molecular microbiology approaches in the study of <i>Campylobacter fetus</i> . <i>Microbial Biotechnology</i> , 2011, 4, 8-19.	4.2	5
60	Biosynthese des enterotoxischen Pyrrolbenzodiazepin-Naturstoffs Tilivallin. <i>Angewandte Chemie</i> , 2017, 129, 14948-14952.	2.0	3
61	Determination of specific DNA strand discontinuities with nucleotide resolution in exponentially growing bacteria harboring rolling circle-replicating plasmids. <i>FEMS Microbiology Letters</i> , 1997, 152, 363-369.	1.8	2
62	<i>Helicobacter pylori</i> , 2017, , .		1
63	<sup>1</sup> H, <sup>13</sup> C, <sup>15</sup> N resonance assignment of the C-terminal domain of the bifunctional enzyme Tral of plasmid R1. <i>Biomolecular NMR Assignments</i> , 2019, 13, 121-125.	0.8	0
64	Making and Breaking Leupeptin Protease Inhibitors in Pathogenic Gammaproteobacteria. <i>Angewandte Chemie</i> , 2020, 132, 18028-18036.	2.0	0