

# Erh-Min Lai

## List of Publications by Citations

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63

papers

2,442

citations

25

h-index

49

g-index

66

ext. papers

3,100

ext. citations

5

avg, IF

5.18

L-index

#	Paper	IF	Citations
63	Agrobacterium tumefaciens deploys a superfamily of type VI secretion DNase effectors as weapons for interbacterial competition in planta. <i>Cell Host and Microbe</i> , <b>2014</b> , 16, 94-104	23.4	191
62	Processed VirB2 is the major subunit of the promiscuous pilus of Agrobacterium tumefaciens. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 2711-7	3.5	152
61	Proteomic analysis of the spore coats of Bacillus subtilis and Bacillus anthracis. <i>Journal of Bacteriology</i> , <b>2003</b> , 185, 1443-54	3.5	148
60	Conjugative pili of IncP plasmids, and the Ti plasmid T pilus are composed of cyclic subunits. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 22548-55	5.4	143
59	An lcmF family protein, ImpLM, is an integral inner membrane protein interacting with ImpKL, and its walker a motif is required for type VI secretion system-mediated Hcp secretion in Agrobacterium tumefaciens. <i>Journal of Bacteriology</i> , <b>2009</b> , 191, 4316-29	3.5	116
58	Secretome analysis uncovers an Hcp-family protein secreted via a type VI secretion system in Agrobacterium tumefaciens. <i>Journal of Bacteriology</i> , <b>2008</b> , 190, 2841-50	3.5	116
57	AGROBEST: an efficient Agrobacterium-mediated transient expression method for versatile gene function analyses in Arabidopsis seedlings. <i>Plant Methods</i> , <b>2014</b> , 10, 19	5.8	115
56	Agrobacterium-mediated plant transformation: biology and applications. <i>The Arabidopsis Book</i> , <b>2017</b> , 15, e0186	3	110
55	The T-pilus of Agrobacterium tumefaciens. <i>Trends in Microbiology</i> , <b>2000</b> , 8, 361-9	12.4	104
54	Genetic and environmental factors affecting T-pilin export and T-pilus biogenesis in relation to flagellation of Agrobacterium tumefaciens. <i>Journal of Bacteriology</i> , <b>2000</b> , 182, 3705-16	3.5	100
53	VgrG C terminus confers the type VI effector transport specificity and is required for binding with PAAR and adaptor-effector complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E3931-40	11.5	99
52	Proteomic screening and identification of differentially distributed membrane proteins in Escherichia coli. <i>Molecular Microbiology</i> , <b>2004</b> , 52, 1029-44	4.1	80
51	Protein-Protein Interactions: Co-Immunoprecipitation. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1615, 211-219	2.4	66
50	Acid-induced type VI secretion system is regulated by ExoR-ChvG/ChvI signaling cascade in Agrobacterium tumefaciens. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002938	7.6	65
49	lcmF family protein TssM exhibits ATPase activity and energizes type VI secretion. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 15610-21	5.4	58
48	VirB2 is a processed pilin-like protein encoded by the Agrobacterium tumefaciens Ti plasmid. <i>Journal of Bacteriology</i> , <b>1996</b> , 178, 5706-11	3.5	56
47	Hfq influences multiple transport systems and virulence in the plant pathogen Agrobacterium tumefaciens. <i>Journal of Bacteriology</i> , <b>2012</b> , 194, 5209-17	3.5	53

46	Systematic dissection of the agrobacterium type VI secretion system reveals machinery and secreted components for subcomplex formation. <i>PLoS ONE</i> , <b>2013</b> , 8, e67647	3.7	53
45	Type VI Secretion Effectors: Methodologies and Biology. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2017</b> , 7, 254	5.9	51
44	Biogenesis of T pili in <i>Agrobacterium tumefaciens</i> requires precise VirB2 propilin cleavage and cyclization. <i>Journal of Bacteriology</i> , <b>2002</b> , 184, 327-30	3.5	50
43	Proteomic analysis of <i>Agrobacterium tumefaciens</i> response to the Vir gene inducer acetosyringone. <i>Proteomics</i> , <b>2006</b> , 6, 4130-6	4.8	40
42	Fha interaction with phosphothreonine of TssL activates type VI secretion in <i>Agrobacterium tumefaciens</i> . <i>PLoS Pathogens</i> , <b>2014</b> , 10, e1003991	7.6	35
41	<i>Agrobacterium</i> -produced and exogenous cytokinin-modulated <i>Agrobacterium</i> -mediated plant transformation. <i>Molecular Plant Pathology</i> , <b>2010</b> , 11, 677-90	5.7	32
40	Proteomic analysis of rice defense response induced by probenazole. <i>Phytochemistry</i> , <b>2008</b> , 69, 715-28	4	32
39	Proteomic and transcriptomic characterization of a virulence-deficient phosphatidylcholine-negative <i>Agrobacterium tumefaciens</i> mutant. <i>Molecular Genetics and Genomics</i> , <b>2010</b> , 283, 575-89	3.1	27
38	Profound impact of Hfq on nutrient acquisition, metabolism and motility in the plant pathogen <i>Agrobacterium tumefaciens</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e110427	3.7	24
37	Small heat-shock protein HspL is induced by VirB protein(s) and promotes VirB/D4-mediated DNA transfer in <i>Agrobacterium tumefaciens</i> . <i>Microbiology (United Kingdom)</i> , <b>2009</b> , 155, 3270-3280	2.9	23
36	TagF-mediated repression of bacterial type VI secretion systems involves a direct interaction with the cytoplasmic protein Fha. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 8829-8842	5.4	20
35	The small heat-shock protein HspL is a VirB8 chaperone promoting type IV secretion-mediated DNA transfer. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 19757-66	5.4	19
34	Complete Genome Sequence of <i>Agrobacterium tumefaciens</i> Ach5. <i>Genome Announcements</i> , <b>2015</b> , 3,		18
33	The Tzs protein and exogenous cytokinin affect virulence gene expression and bacterial growth of <i>Agrobacterium tumefaciens</i> . <i>Phytopathology</i> , <b>2013</b> , 103, 888-99	3.8	17
32	Characterization of a <i>Bacillus anthracis</i> spore coat-surface protein that influences coat-surface morphology. <i>FEMS Microbiology Letters</i> , <b>2008</b> , 289, 110-7	2.9	15
31	A citrate-inducible gene, encoding a putative tricarboxylate transporter, is downregulated by the organic solvent DMSO in <i>Agrobacterium tumefaciens</i> . <i>Journal of Applied Microbiology</i> , <b>2008</b> , 105, 1372-83	4.7	14
30	Plant-Pathogenic Strains Have Diverse Type VI Effector-Immunity Pairs and Vary in In-Planta Competitiveness. <i>Molecular Plant-Microbe Interactions</i> , <b>2019</b> , 32, 961-971	3.6	13
29	Protein-Protein Interactions: Yeast Two-Hybrid System. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1615, 177-187	4	13

28	Effector loading onto the VgrG carrier activates type VI secretion system assembly. <i>EMBO Reports</i> , <b>2020</b> , 21, e47961	6.5	13
27	Stable pH Suppresses Defense Signaling and is the Key to Enhance Agrobacterium-Mediated Transient Expression in Arabidopsis Seedlings. <i>Scientific Reports</i> , <b>2018</b> , 8, 17071	4.9	12
26	One out of four: HspL but no other small heat shock protein of Agrobacterium tumefaciens acts as efficient virulence-promoting VirB8 chaperone. <i>PLoS ONE</i> , <b>2012</b> , 7, e49685	3.7	11
25	Redundancy and Specificity of Type VI Secretion Loci in Antibacterial Activity of 1D1609 Strain. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 3004	5.7	10
24	Expression and functional characterization of the Agrobacterium VirB2 amino acid substitution variants in T-pilus biogenesis, virulence, and transient transformation efficiency. <i>PLoS ONE</i> , <b>2014</b> , 9, e101142	3.7	9
23	The Agrobacterium tumefaciens T pilus composed of cyclic T pilin is highly resilient to extreme environments. <i>FEMS Microbiology Letters</i> , <b>2002</b> , 210, 111-4	2.9	9
22	Cyclic di-GMP inactivates T6SS and T4SS activity in Agrobacterium tumefaciens. <i>Molecular Microbiology</i> , <b>2019</b> , 112, 632-648	4.1	8
21	A High-Throughput Interbacterial Competition Screen Identifies ClpAP in Enhancing Recipient Susceptibility to Type VI Secretion System-Mediated Attack by. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 3077	5.7	8
20	Functional Exploration of the Bacterial Type VI Secretion System in Mutualism: Azorhizobium caulinodans ORS571-Sesbania rostrata as a Research Model. <i>Molecular Plant-Microbe Interactions</i> , <b>2018</b> , 31, 856-867	3.6	8
19	Differentiations in Gene Content and Expression Response to Virulence Induction Between Two Strains. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 1554	5.7	8
18	Role of Recipient Susceptibility Factors During Contact-Dependent Interbacterial Competition. <i>Frontiers in Microbiology</i> , <b>2020</b> , 11, 603652	5.7	7
17	Warfare between Host Immunity and Bacterial Weapons. <i>Cell Host and Microbe</i> , <b>2017</b> , 21, 3-4	23.4	6
16	The RNase YbeY Is Vital for Ribosome Maturation, Stress Resistance, and Virulence of the Natural Genetic Engineer. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	6
15	Overexpression of the HspL Promotes Agrobacterium tumefaciens Virulence in Arabidopsis Under Heat Shock Conditions. <i>Phytopathology</i> , <b>2015</b> , 105, 160-8	3.8	6
14	Differential roles of glucosinolates and camalexin at different stages of Agrobacterium-mediated transformation. <i>Molecular Plant Pathology</i> , <b>2018</b> , 19, 1956	5.7	6
13	Transcriptional activation of flanking sequences by Tn1000 insertion. <i>Molecular Genetics and Genomics</i> , <b>1994</b> , 245, 417-23		6
12	Differential Protein Expression of Two Photosystem II Subunits, PsbO and PsbP, in an Albino Mutant of Bambusa edulis with Chloroplast DNA Aberration. <i>Journal of the American Society for Horticultural Science</i> , <b>2008</b> , 133, 270-277	2.3	6
11	Complete Genome Sequence of Agrobacterium tumefaciens 1D1609. <i>Genome Announcements</i> , <b>2018</b> , 6,		5

10	The Agrobacterium Type VI Secretion System: A Contractile Nanomachine for Interbacterial Competition. <i>Current Topics in Microbiology and Immunology</i> , <b>2018</b> , 418, 215-231	3.3	4
9	Solving the Puzzle: Connecting a Heterologous T6SS Effector to a Spike Complex. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2020</b> , 10, 291	5.9	3
8	Agrobacterium tumefaciens Deploys a Versatile Antibacterial Strategy To Increase Its Competitiveness. <i>Journal of Bacteriology</i> , <b>2021</b> , 203,	3.5	3
7	Diversification of the Type VI Secretion System in Agrobacteria. <i>MBio</i> , <b>2021</b> , 12, e0192721	7.8	3
6	Modular evolution of secretion systems and virulence plasmids in a bacterial species complex.. <i>BMC Biology</i> , <b>2022</b> , 20, 16	7.3	1
5	Effector loading onto VgrG spike proteins is critical for the assembly of the type VI secretion system in Agrobacterium tumefaciens		1
4	Redundancy and specificity of type VI secretion vgrG loci in antibacterial activity of Agrobacterium tumefaciens 1D1609 strain		1
3	Modular evolution of secretion systems and virulence plasmids in a bacterial species complex		1
2	A High-throughput Interbacterial Competition Platform. <i>Bio-protocol</i> , <b>2020</b> , 10, e3736	0.9	
1	AGROBEST: A Highly Efficient Agrobacterium-Mediated Transient Expression System in Arabidopsis Seedlings.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2379, 113-123	1.4	