Erh-Min Lai

List of Publications by Year in Descending Order

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	Modular evolution of secretion systems and virulence plasmids in a bacterial species complex.. *BMC Biology*, **2022**, 20, 16	7.3	1
62	AGROBEST: A Highly Efficient Agrobacterium-Mediated Transient Expression System in Arabidopsis Seedlings.. *Methods in Molecular Biology*, **2022**, 2379, 113-123	1.4	
61	Agrobacterium tumefaciens Deploys a Versatile Antibacterial Strategy To Increase Its Competitiveness. *Journal of Bacteriology*, **2021**, 203,	3.5	3
60	Diversification of the Type VI Secretion System in Agrobacteria. *MBio*, **2021**, 12, e0192721	7.8	3
59	Solving the Puzzle: Connecting a Heterologous T6SS Effector to a Spike Complex. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 291	5.9	3
58	A High-throughput Interbacterial Competition Platform. *Bio-protocol*, **2020**, 10, e3736	0.9	
57	Effector loading onto the VgrG carrier activates type VI secretion system assembly. *EMBO Reports*, **2020**, 21, e47961	6.5	13
56	Role of Recipient Susceptibility Factors During Contact-Dependent Interbacterial Competition. *Frontiers in Microbiology*, **2020**, 11, 603652	5.7	7
55	Cyclic di-GMP inactivates T6SS and T4SS activity in Agrobacterium tumefaciens. *Molecular Microbiology*, **2019**, 112, 632-648	4.1	8
54	The RNase YbeY Is Vital for Ribosome Maturation, Stress Resistance, and Virulence of the Natural Genetic Engineer. *Journal of Bacteriology*, **2019**, 201,	3.5	6
53	Plant-Pathogenic Strains Have Diverse Type VI Effector-Immunity Pairs and Vary in In-Planta Competitiveness. *Molecular Plant-Microbe Interactions*, **2019**, 32, 961-971	3.6	13
52	A High-Throughput Interbacterial Competition Screen Identifies ClpAP in Enhancing Recipient Susceptibility to Type VI Secretion System-Mediated Attack by. *Frontiers in Microbiology*, **2019**, 10, 3077	5.7	8
51	Redundancy and Specificity of Type VI Secretion Loci in Antibacterial Activity of 1D1609 Strain. *Frontiers in Microbiology*, **2019**, 10, 3004	5.7	10
50	Differentiations in Gene Content and Expression Response to Virulence Induction Between Two Strains. *Frontiers in Microbiology*, **2019**, 10, 1554	5.7	8
49	Functional Exploration of the Bacterial Type VI Secretion System in Mutualism: Azorhizobium caulinodans ORS571-Sesbania rostrata as a Research Model. *Molecular Plant-Microbe Interactions*, **2018**, 31, 856-867	3.6	8
48	Differential roles of glucosinolates and camalexin at different stages of Agrobacterium-mediated transformation. *Molecular Plant Pathology*, **2018**, 19, 1956	5.7	6
47	TagF-mediated repression of bacterial type VI secretion systems involves a direct interaction with the cytoplasmic protein Fha. *Journal of Biological Chemistry*, **2018**, 293, 8829-8842	5.4	20

46	Complete Genome Sequence of Agrobacterium tumefaciens 1D1609. *Genome Announcements*, **2018**, 6,		5
45	The Agrobacterium Type VI Secretion System: A Contractile Nanomachine for Interbacterial Competition. *Current Topics in Microbiology and Immunology*, **2018**, 418, 215-231	3.3	4
44	Stable pH Suppresses Defense Signaling and is the Key to Enhance Agrobacterium-Mediated Transient Expression in Arabidopsis Seedlings. *Scientific Reports*, **2018**, 8, 17071	4.9	12
43	Warfare between Host Immunity and Bacterial Weapons. *Cell Host and Microbe*, **2017**, 21, 3-4	23.4	6
42	Agrobacterium-mediated plant transformation: biology and applications. *The Arabidopsis Book*, **2017**, 15, e0186	3	110
41	Protein-Protein Interactions: Yeast Two-Hybrid System. *Methods in Molecular Biology*, **2017**, 1615, 177-187	1.4	13
40	Protein-Protein Interactions: Co-Immunoprecipitation. *Methods in Molecular Biology*, **2017**, 1615, 211-219	1.4	66
39	Type VI Secretion Effectors: Methodologies and Biology. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 254	5.9	51
38	VgrG C terminus confers the type VI effector transport specificity and is required for binding with PAAR and adaptor-effector complex. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3931-40	11.5	99
37	Overexpression of the HspL Promotes Agrobacterium tumefaciens Virulence in Arabidopsis Under Heat Shock Conditions. *Phytopathology*, **2015**, 105, 160-8	3.8	6
36	Complete Genome Sequence of Agrobacterium tumefaciens Ach5. *Genome Announcements*, **2015**, 3,		18
35	Agrobacterium tumefaciens deploys a superfamily of type VI secretion DNase effectors as weapons for interbacterial competition in planta. *Cell Host and Microbe*, **2014**, 16, 94-104	23.4	191
34	AGROBEST: an efficient Agrobacterium-mediated transient expression method for versatile gene function analyses in Arabidopsis seedlings. *Plant Methods*, **2014**, 10, 19	5.8	115
33	Expression and functional characterization of the Agrobacterium VirB2 amino acid substitution variants in T-pilus biogenesis, virulence, and transient transformation efficiency. *PLoS ONE*, **2014**, 9, e101142	3.7	9
32	Profound impact of Hfq on nutrient acquisition, metabolism and motility in the plant pathogen Agrobacterium tumefaciens. *PLoS ONE*, **2014**, 9, e110427	3.7	24
31	Fha interaction with phosphothreonine of TssL activates type VI secretion in Agrobacterium tumefaciens. *PLoS Pathogens*, **2014**, 10, e1003991	7.6	35
30	The Tzs protein and exogenous cytokinin affect virulence gene expression and bacterial growth of Agrobacterium tumefaciens. *Phytopathology*, **2013**, 103, 888-99	3.8	17
29	Systematic dissection of the agrobacterium type VI secretion system reveals machinery and secreted components for subcomplex formation. *PLoS ONE*, **2013**, 8, e67647	3.7	53

28	Hfq influences multiple transport systems and virulence in the plant pathogen Agrobacterium tumefaciens. *Journal of Bacteriology*, **2012**, 194, 5209-17	3.5	53
27	One out of four: HspL but no other small heat shock protein of Agrobacterium tumefaciens acts as efficient virulence-promoting VirB8 chaperone. *PLoS ONE*, **2012**, 7, e49685	3.7	11
26	Acid-induced type VI secretion system is regulated by ExoR-ChvG/ChvI signaling cascade in Agrobacterium tumefaciens. *PLoS Pathogens*, **2012**, 8, e1002938	7.6	65
25	IcmF family protein TssM exhibits ATPase activity and energizes type VI secretion. *Journal of Biological Chemistry*, **2012**, 287, 15610-21	5.4	58
24	Agrobacterium-produced and exogenous cytokinin-modulated Agrobacterium-mediated plant transformation. *Molecular Plant Pathology*, **2010**, 11, 677-90	5.7	32
23	The small heat-shock protein HspL is a VirB8 chaperone promoting type IV secretion-mediated DNA transfer. *Journal of Biological Chemistry*, **2010**, 285, 19757-66	5.4	19
22	Proteomic and transcriptomic characterization of a virulence-deficient phosphatidylcholine-negative Agrobacterium tumefaciens mutant. *Molecular Genetics and Genomics*, **2010**, 283, 575-89	3.1	27
21	An IcmF 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. *Journal of Bacteriology*, **2009**, 191, 4316-29	3.5	116
20	Small heat-shock protein HspL is induced by VirB protein(s) and promotes VirB/D4-mediated DNA transfer in Agrobacterium tumefaciens. *Microbiology (United Kingdom)*, **2009**, 155, 3270-3280	2.9	23
19	A citrate-inducible gene, encoding a putative tricarboxylate transporter, is downregulated by the organic solvent DMSO in Agrobacterium tumefaciens. *Journal of Applied Microbiology*, **2008**, 105, 1372-83	4.7	14
18	Secretome analysis uncovers an Hcp-family protein secreted via a type VI secretion system in Agrobacterium tumefaciens. *Journal of Bacteriology*, **2008**, 190, 2841-50	3.5	116
17	Proteomic analysis of rice defense response induced by probenazole. *Phytochemistry*, **2008**, 69, 715-28	4	32
16	Characterization of a Bacillus anthracis spore coat-surface protein that influences coat-surface morphology. *FEMS Microbiology Letters*, **2008**, 289, 110-7	2.9	15
15	Differential Protein Expression of Two Photosystem II Subunits, PsbO and PsbP, in an Albino Mutant of Bambusa edulis with Chloroplast DNA Aberration. *Journal of the American Society for Horticultural Science*, **2008**, 133, 270-277	2.3	6
14	Proteomic analysis of Agrobacterium tumefaciens response to the Vir gene inducer acetosyringone. *Proteomics*, **2006**, 6, 4130-6	4.8	40
13	Proteomic screening and identification of differentially distributed membrane proteins in Escherichia coli. *Molecular Microbiology*, **2004**, 52, 1029-44	4.1	80
12	Proteomic analysis of the spore coats of Bacillus subtilis and Bacillus anthracis. *Journal of Bacteriology*, **2003**, 185, 1443-54	3.5	148
11	The Agrobacterium tumefaciens T pilus composed of cyclic T pilin is highly resilient to extreme environments. *FEMS Microbiology Letters*, **2002**, 210, 111-4	2.9	9

List of Publications

10	Biogenesis of T pili in Agrobacterium tumefaciens requires precise VirB2 propilin cleavage and cyclization. *Journal of Bacteriology*, **2002**, 184, 327-30	3.5	50
9	Genetic and environmental factors affecting T-pilin export and T-pilus biogenesis in relation to flagellation of Agrobacterium tumefaciens. *Journal of Bacteriology*, **2000**, 182, 3705-16	3.5	100
8	The T-pilus of Agrobacterium tumefaciens. *Trends in Microbiology*, **2000**, 8, 361-9	12.4	104
7	Conjugative pili of IncP plasmids, and the Ti plasmid T pilus are composed of cyclic subunits. *Journal of Biological Chemistry*, **1999**, 274, 22548-55	5.4	143
6	Processed VirB2 is the major subunit of the promiscuous pilus of Agrobacterium tumefaciens. *Journal of Bacteriology*, **1998**, 180, 2711-7	3.5	152
5	VirB2 is a processed pilin-like protein encoded by the Agrobacterium tumefaciens Ti plasmid. *Journal of Bacteriology*, **1996**, 178, 5706-11	3.5	56
4	Transcriptional activation of flanking sequences by Tn1000 insertion. *Molecular Genetics and Genomics*, **1994**, 245, 417-23		6
3	Effector loading onto VgrG spike proteins is critical for the assembly of the type VI secretion system inAgrobacterium tumefaciens		1
2	Redundancy and specificity of type VI secretion vgrG loci in antibacterial activity of Agrobacterium tumefaciens 1D1609 strain		1
1	Modular evolution of secretion systems and virulence plasmids in a bacterial species complex		1