

# Ingyu Hwang

## List of Publications by Year in descending order

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74  
papers

3,156  
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172457  
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docs citations

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times ranked

3235  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Genomic Analysis of Pathogenic Factors of <i>Pectobacterium</i> Species Isolated in South Korea Using Whole-Genome Sequencing. <i>Plant Pathology Journal</i> , 2022, 38, 12-24.	1.7	1
2	Identification of a Genetically Linked but Functionally Independent Two-Component System Important for Cell Division of the Rice Pathogen <i>Burkholderia glumae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 700333.	3.5	3
3	Mutations in the Two-Component GluS-GluR Regulatory System Confer Resistance to $\hat{\text{I}}^2$ -Lactam Antibiotics in <i>Burkholderia glumae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 721444.	3.5	2
4	Essential roles of Lon protease in the morpho-physiological traits of the rice pathogen <i>Burkholderia glumae</i> . <i>PLoS ONE</i> , 2021, 16, e0257257.	2.5	3
5	Pan-Genome Analysis of Effectors in Korean Strains of the Soybean Pathogen <i>Xanthomonas citri</i> pv. <i>glycines</i> . <i>Microorganisms</i> , 2021, 9, 2065.	3.6	4
6	Membrane Depolarization and Apoptosis-Like Cell Death in an Alkaline Environment in the Rice Pathogen <i>Burkholderia glumae</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 755596.	3.5	5
7	Characterization of <i>Xanthomonas citri</i> pv. <i>glycines</i> Population Genetics and Virulence in a National Survey of Bacterial Pustule Disease in Korea. <i>Plant Pathology Journal</i> , 2021, 37, 652-661.	1.7	7
8	Disappearance of Quorum Sensing in <i>Burkholderia glumae</i> During Experimental Evolution. <i>Microbial Ecology</i> , 2020, 79, 947-959.	2.8	3
9	Adverse effects of adaptive mutation to survive static culture conditions on successful fitness of the rice pathogen <i>Burkholderia glumae</i> in a host. <i>PLoS ONE</i> , 2020, 15, e0238151.	2.5	0
10	Distribution of <i>Pectobacterium</i> Species Isolated in South Korea and Comparison of Temperature Effects on Pathogenicity. <i>Plant Pathology Journal</i> , 2020, 36, 346-354.	1.7	15
11	Unraveling the role of quorum sensing-dependent metabolic homeostasis of the activated methyl cycle in a cooperative population of <i>Burkholderia glumae</i> . <i>Scientific Reports</i> , 2019, 9, 11038.	3.3	5
12	Prediction of Host-Specific Genes by Pan-Genome Analyses of the Korean <i>Ralstonia solanacearum</i> Species Complex. <i>Frontiers in Microbiology</i> , 2019, 10, 506.	3.5	30
13	Quorum Sensing-Independent Cellulase-Sensitive Pellicle Formation Is Critical for Colonization of <i>Burkholderia glumae</i> in Rice Plants. <i>Frontiers in Microbiology</i> , 2019, 10, 3090.	3.5	13
14	Complete Genome Sequence of <i>Paracoccus yeei</i> TT13, Isolated from Human Skin. <i>Genome Announcements</i> , 2018, 6, .	0.8	18
15	Analysis of Genetic and Pathogenic Diversity of <i>Ralstonia solanacearum</i> Causing Potato Bacterial Wilt in Korea. <i>Plant Pathology Journal</i> , 2018, 34, 23-34.	1.7	23
16	Complete Genome Sequences of Three <i>Moraxella osloensis</i> Strains Isolated from Human Skin. <i>Genome Announcements</i> , 2018, 6, .	0.8	4
17	Glutamate uptake is important for osmoregulation and survival in the rice pathogen <i>Burkholderia glumae</i> . <i>PLoS ONE</i> , 2018, 13, e0190431.	2.5	22
18	Critical role of quorum sensing-dependent glutamate metabolism in homeostatic osmolality and outer membrane vesiculation in <i>Burkholderia glumae</i> . <i>Scientific Reports</i> , 2017, 7, 44195.	3.3	21

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19	Lethal Consequences of Overcoming Metabolic Restrictions Imposed on a Cooperative Bacterial Population. <i>MBio</i> , 2017, 8, .	4.1	17
20	Identification of <i>Pseudomonas syringae</i> pv. <i>syringae</i> causing bacterial leaf blight of <i>Miscanthus sinensis</i> . <i>Journal of Plant Diseases and Protection</i> , 2017, 124, 97-100.	2.9	10
21	Organization and characterization of genetic regions in <i>Bacillus subtilis</i> subsp. <i>kristiensis</i> ATCC55079 associated with the biosynthesis of iturin and surfactin compounds. <i>PLoS ONE</i> , 2017, 12, e0188179.	2.5	17
22	Structural Insights into an Oxalate-producing Serine Hydrolase with an Unusual Oxyanion Hole and Additional Lyase Activity. <i>Journal of Biological Chemistry</i> , 2016, 291, 15185-15195.	3.4	8
23	Functional and genomic insights into the pathogenesis of <i>Burkholderia</i> species to rice. <i>Environmental Microbiology</i> , 2016, 18, 780-790.	3.8	25
24	A CHASE3/GAF sensor hybrid histidine kinase BmsA modulates biofilm formation and motility in <i>Pseudomonas alkylphenolica</i> . <i>Microbiology (United Kingdom)</i> , 2016, 162, 1945-1954.	1.8	3
25	Comparative genome analysis of rice-pathogenic <i>Burkholderia</i> provides insight into capacity to adapt to different environments and hosts. <i>BMC Genomics</i> , 2015, 16, 349.	2.8	45
26	Control of bacterial metabolism by quorum sensing. <i>Trends in Microbiology</i> , 2015, 23, 567-576.	7.7	133
27	Quorum Sensing Controls Flagellar Morphogenesis in <i>Burkholderia glumae</i> . <i>PLoS ONE</i> , 2014, 9, e84831.	2.5	30
28	Structural Basis for Bacterial Quorum Sensing-mediated Oxalogenesis. <i>Journal of Biological Chemistry</i> , 2014, 289, 11465-11475.	3.4	9
29	Bacterial quorum sensing and metabolic slowing in a cooperative population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14912-14917.	7.1	125
30	Complete genome sequence of the mushroom-like aerial structure-forming <i>Pseudomonas alkylphenolica</i> , a platform bacterium for mass production of poly- $\beta$ -D-mannuronates. <i>Journal of Biotechnology</i> , 2014, 192, 20-21.	3.8	9
31	The crystal structure of type III effector protein XopQ from <i>Xanthomonas oryzae</i> complexed with adenosine diphosphate ribose. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 2910-2914.	2.6	13
32	A simple and sensitive biosensor strain for detecting toxoflavin using $\beta$ -galactosidase activity. <i>Biosensors and Bioelectronics</i> , 2013, 50, 256-261.	10.1	21
33	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i> Type III Effector XopN Targets OsVOZ2 and a Putative Thiamine Synthase as a Virulence Factor in Rice. <i>PLoS ONE</i> , 2013, 8, e73346.	2.5	40
34	Development of a Selective Medium for the Fungal Pathogen <i>Fusarium graminearum</i> Using Toxoflavin Produced by the Bacterial Pathogen <i>Burkholderia glumae</i> . <i>Plant Pathology Journal</i> , 2013, 29, 446-450.	1.7	13
35	RNAseq-based Transcriptome Analysis of <i>Burkholderia glumae</i> Quorum Sensing. <i>Plant Pathology Journal</i> , 2013, 29, 249-259.	1.7	14
36	Complete Genome Sequence of the Rice Pathogen <i>Pantoea ananatis</i> Strain PA13. <i>Journal of Bacteriology</i> , 2012, 194, 531-531.	2.2	26

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37	Toxoflavin Lyase Enzyme as a Marker for Selecting Potato Plant Transformants. <i>Bioscience, Biotechnology and Biochemistry</i> , 2012, 76, 2354-2356.	1.3	6
38	Regulation of Universal Stress Protein Genes by Quorum Sensing and RpoS in <i>Burkholderia glumae</i> . <i>Journal of Bacteriology</i> , 2012, 194, 982-992.	2.2	41
39	Bacterial quorum sensing, cooperativity, and anticipation of stationary-phase stress. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 19775-19780.	7.1	109
40	Structural and Functional Analysis of Phytotoxin Toxoflavin-Degrading Enzyme. <i>PLoS ONE</i> , 2011, 6, e22443.	2.5	18
41	A novel light-dependent selection marker system in plants. <i>Plant Biotechnology Journal</i> , 2011, 9, 348-358.	8.3	22
42	An HrpB-dependent but type III-independent extracellular aspartic protease is a virulence factor of <i>Ralstonia solanacearum</i> . <i>Molecular Plant Pathology</i> , 2011, 12, 373-380.	4.2	17
43	Complete Genome Sequence of <i>Burkholderia gladioli</i> BSR3. <i>Journal of Bacteriology</i> , 2011, 193, 3149-3149.	2.2	47
44	Small-molecule inhibitor binding to an <i>N</i> -acyl-homoserine lactone synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12089-12094.	7.1	102
45	Proteomic Analysis of Quorum Sensing-Dependent Proteins in <i>Burkholderia glumae</i> . <i>Journal of Proteome Research</i> , 2010, 9, 3184-3199.	3.7	43
46	Biochemical Evidence for ToxR and ToxJ Binding to the <i>tox</i> Operons of <i>Burkholderia glumae</i> and Mutational Analysis of ToxR. <i>Journal of Bacteriology</i> , 2009, 191, 4870-4878.	2.2	19
47	Complete Genome Sequence of <i>Burkholderia glumae</i> BGR1. <i>Journal of Bacteriology</i> , 2009, 191, 3758-3759.	2.2	59
48	The Quorum Sensing-Dependent Gene <i>katG</i> of <i>Burkholderia glumae</i> Is Important for Protection from Visible Light. <i>Journal of Bacteriology</i> , 2009, 191, 4152-4157.	2.2	46
49	Proteomic analysis of the proteins regulated by HrpB from the plant pathogenic bacterium <i>Burkholderia glumae</i> . <i>Proteomics</i> , 2008, 8, 106-121.	2.2	43
50	Identification, characterization and regulation of two secreted polygalacturonases of the emerging rice pathogen <i>Burkholderia glumae</i> . <i>FEMS Microbiology Ecology</i> , 2008, 65, 251-262.	2.7	22
51	Pyroloquinoline Quinone Is a Plant Growth Promotion Factor Produced by <i>Pseudomonas fluorescens</i> B16. <i>Plant Physiology</i> , 2008, 146, 657-668.	4.8	195
52	Amyloidogenesis of Type III-dependent Harpins from Plant Pathogenic Bacteria. <i>Journal of Biological Chemistry</i> , 2007, 282, 13601-13609.	3.4	94
53	Genetic Diversity and Distribution of Korean Isolates of <i>Ralstonia solanacearum</i> . <i>Plant Disease</i> , 2007, 91, 1277-1287.	1.4	73
54	Involvement of a Quorum-Sensing-Regulated Lipase Secreted by a Clinical Isolate of <i>Burkholderia glumae</i> in Severe Disease Symptoms in Rice. <i>Applied and Environmental Microbiology</i> , 2007, 73, 4950-4958.	3.1	82

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55	Regulation of polar flagellum genes is mediated by quorum sensing and FlhDC in <i>Burkholderia glumae</i> . <i>Molecular Microbiology</i> , 2007, 64, 165-179.	2.5	108
56	The barley ERF-type transcription factor HvRAF confers enhanced pathogen resistance and salt tolerance in <i>Arabidopsis</i> . <i>Planta</i> , 2007, 225, 575-588.	3.2	115
57	Comparative analysis of three indigenous plasmids from <i>Xanthomonas axonopodis</i> pv. <i>glycines</i> . <i>Plasmid</i> , 2006, 56, 79-87.	1.4	21
58	Bases of biocontrol: Sequence predicts synthesis and mode of action of agrocin 84, the Trojan Horse antibiotic that controls crown gall. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8846-8851.	7.1	79
59	Identification and expression of the <i>cym</i> , <i>cmt</i> , and <i>tod</i> catabolic genes from <i>Pseudomonas putida</i> KL47: expression of the regulatory <i>todST</i> genes as a factor for catabolic adaptation. <i>Journal of Microbiology</i> , 2006, 44, 192-9.	2.8	7
60	Identification of <i>dspEF</i> , <i>hrpW</i> , and <i>hrpN</i> loci and characterization of the <i>hrpNEp</i> gene in <i>Erwinia pyrifoliae</i> . <i>Journal of General Plant Pathology</i> , 2005, 71, 211-220.	1.0	8
61	Major Biocontrol of Plant Tumors Targets tRNA Synthetase. <i>Science</i> , 2005, 309, 1533-1533.	12.6	86
62	Mutational Analysis of <i>Xanthomonas</i> Harpin HpaG Identifies a Key Functional Region That Elicits the Hypersensitive Response in Nonhost Plants. <i>Journal of Bacteriology</i> , 2004, 186, 6239-6247.	2.2	64
63	Quorum sensing and the LysR-type transcriptional activator ToxR regulate toxoflavin biosynthesis and transport in <i>Burkholderia glumae</i> . <i>Molecular Microbiology</i> , 2004, 54, 921-934.	2.5	201
64	3- and 4-alkylphenol degradation pathway in <i>Pseudomonas</i> sp. strain KL28: genetic organization of the <i>lap</i> gene cluster and substrate specificities of phenol hydroxylase and catechol 2,3-dioxygenase. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3265-3277.	1.8	82
65	Characterization of the <i>Xanthomonas axonopodis</i> pv. <i>glycines</i> Hrp Pathogenicity Island. <i>Journal of Bacteriology</i> , 2003, 185, 3155-3166.	2.2	154
66	Toxoflavin Produced by <i>Burkholderia glumae</i> Causing Rice Grain Rot Is Responsible for Inducing Bacterial Wilt in Many Field Crops. <i>Plant Disease</i> , 2003, 87, 890-895.	1.4	173
67	Phosphorylation-Induced Signal Propagation in the Response Regulator NtrC. <i>Journal of Bacteriology</i> , 2000, 182, 5188-5195.	2.2	44
68	Hierarchical gene regulatory systems arising from fortuitous gene associations: controlling quorum sensing by the opine regulon in <i>Agrobacterium</i> . <i>Molecular Microbiology</i> , 1999, 32, 1077-1089.	2.5	92
69	Modulating quorum sensing by antiactivation: TraM interacts with TraR to inhibit activation of Ti plasmid conjugal transfer genes. <i>Molecular Microbiology</i> , 1999, 34, 282-294.	2.5	77
70	Essential Components of the Ti Plasmid <i>trb</i> System, a Type IV Macromolecular Transporter. <i>Journal of Bacteriology</i> , 1999, 181, 5033-5041.	2.2	51
71	Use of Detached Soybean Cotyledons for Testing Pathogenicity of <i>Xanthomonas campestris</i> pv. <i>glycines</i> . <i>Plant Disease</i> , 1992, 76, 182.	1.4	7
72	Effects of Individual and Multiple Infections with Three Bacterial Pathogens on Disease Severity and Yield of Soybeans. <i>Plant Disease</i> , 1992, 76, 195.	1.4	8

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73	Hierarchical regulation of <i>Burkholderia glumae</i> type III secretion system by GluR response regulator and Lon protease. <i>Molecular Plant Pathology</i> , 0, , .	4.2	1
74	Influence of genomic structural variations and nutritional conditions on the emergence of quorum sensing-dependent gene regulation defects in <i>Burkholderia glumae</i> . <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	3