

# Teh-Hui Kao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85  
papers

6,639  
citations

40  
h-index

81  
g-index

87  
ext. papers

7,098  
ext. citations

9.5  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
85	Sequence analysis of the <i>Petunia inflata</i> S-locus region containing 17 S-Locus F-Box genes and the S-RNase gene involved in self-incompatibility. <i>Plant Journal</i> , <b>2020</b> , 104, 1348-1368	6.9	4
84	Use of Domain-Swapping to Identify Candidate Amino Acids Involved in Differential Interactions between Two Allelic Variants of Type-1 S-Locus F-Box Protein and S3-RNase in <i>Petunia inflata</i> . <i>Plant and Cell Physiology</i> , <b>2018</b> , 59, 234-247	4.9	5
83	CRISPR/Cas9-mediated knockout of PiSSK1 reveals essential role of S-locus F-box protein-containing SCF complexes in recognition of non-self S-RNases during cross-compatible pollination in self-incompatible <i>Petunia inflata</i> . <i>Plant Reproduction</i> , <b>2018</b> , 31, 129-143	3.9	18
82	S-Locus F-Box Proteins Are Solely Responsible for S-RNase-Based Self-Incompatibility of Pollen. <i>Plant Cell</i> , <b>2018</b> , 30, 2959-2972	11.6	15
81	AcsA-AcsB: The core of the cellulose synthase complex from <i>Gluconacetobacter hansenii</i> ATCC23769. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 82, 58-65	3.8	11
80	All 17 S-locus F-box proteins of the S2 - and S3 -haplotypes of <i>Petunia inflata</i> are assembled into similar SCF complexes with a specific function in self-incompatibility. <i>Plant Journal</i> , <b>2016</b> , 87, 606-16	6.9	9
79	Insight into S-RNase-based self-incompatibility in <i>Petunia</i> : recent findings and future directions. <i>Frontiers in Plant Science</i> , <b>2015</b> , 6, 41	6.2	29
78	Pollen S-locus F-box proteins of <i>Petunia</i> involved in S-RNase-based self-incompatibility are themselves subject to ubiquitin-mediated degradation. <i>Plant Journal</i> , <b>2015</b> , 83, 213-23	6.9	13
77	Isolation and characterization of two cellulose morphology mutants of <i>Gluconacetobacter hansenii</i> ATCC23769 producing cellulose with lower crystallinity. <i>PLoS ONE</i> , <b>2015</b> , 10, e0119504	3.7	15
76	Identification of the self-incompatibility locus F-box protein-containing complex in <i>Petunia inflata</i> . <i>Plant Reproduction</i> , <b>2014</b> , 27, 31-45	3.9	35
75	Transcriptome analysis reveals the same 17 S-locus F-box genes in two haplotypes of the self-incompatibility locus of <i>Petunia inflata</i> . <i>Plant Cell</i> , <b>2014</b> , 26, 2873-88	11.6	57
74	Four previously identified <i>Petunia inflata</i> S-locus F-box genes are involved in pollen specificity in self-incompatibility. <i>Molecular Plant</i> , <b>2014</b> , 7, 567-9	14.4	30
73	S-RNase-Based Self-Incompatibility in <i>Petunia</i> : A Complex Non-Self Recognition System Between Pollen and Pistil <b>2014</b> , 289-303		
72	Identification and characterization of a cellulose binding heptapeptide revealed by phage display. <i>Biomacromolecules</i> , <b>2013</b> , 14, 1795-805	6.9	27
71	Processing of cellulose synthase (AcsAB) from <i>Gluconacetobacter hansenii</i> 23769. <i>Archives of Biochemistry and Biophysics</i> , <b>2013</b> , 529, 92-8	4.1	9
70	Identification and characterization of non-cellulose-producing mutants of <i>Gluconacetobacter hansenii</i> generated by Tn5 transposon mutagenesis. <i>Journal of Bacteriology</i> , <b>2013</b> , 195, 5072-83	3.5	40
69	Self-incompatibility in <i>Petunia inflata</i> : the relationship between a self-incompatibility locus F-box protein and its non-self S-RNases. <i>Plant Cell</i> , <b>2013</b> , 25, 470-85	11.6	30

68	Self-incompatibility in <i>Petunia</i> : a self/nonself-recognition mechanism employing S-locus F-box proteins and S-RNase to prevent inbreeding. <i>Wiley Interdisciplinary Reviews: Developmental Biology</i> , <b>2012</b> , 1, 267-75	5.9	10
67	The amino terminal F-box domain of <i>Petunia inflata</i> S-locus F-box protein is involved in the S-RNase-based self-incompatibility mechanism. <i>AoB PLANTS</i> , <b>2011</b> , 2011, plr016	2.9	13
66	S-RNase-based self-incompatibility in <i>Petunia inflata</i> . <i>Annals of Botany</i> , <b>2011</b> , 108, 637-46	4.1	50
65	Genome sequence of a cellulose-producing bacterium, <i>Gluconacetobacter hansenii</i> ATCC 23769. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 4256-7	3.5	43
64	Collaborative non-self recognition system in S-RNase-based self-incompatibility. <i>Science</i> , <b>2010</b> , 330, 796-9	9.3	211
63	Functional characterization of two chimeric proteins between a <i>Petunia inflata</i> S-locus F-box protein, PiSLF2, and a PiSLF-like protein, PiSLFLb-S2. <i>Plant Molecular Biology</i> , <b>2010</b> , 74, 279-92	4.6	4
62	Ectopic expression of S-RNase of <i>Petunia inflata</i> in pollen results in its sequestration and non-cytotoxic function. <i>Sexual Plant Reproduction</i> , <b>2009</b> , 22, 263-75		15
61	Identification of major lysine residues of S(3)-RNase of <i>Petunia inflata</i> involved in ubiquitin-26S proteasome-mediated degradation in vitro. <i>Plant Journal</i> , <b>2008</b> , 54, 1094-104	6.9	46
60	Biochemical models for S-RNase-based self-incompatibility. <i>Molecular Plant</i> , <b>2008</b> , 1, 575-85	14.4	92
59	Comparison of <i>Petunia inflata</i> S-Locus F-box protein (Pi SLF) with Pi SLF like proteins reveals its unique function in S-RNase based self-incompatibility. <i>Plant Cell</i> , <b>2007</b> , 19, 3593-609	11.6	62
58	Identification and characterization of components of a putative <i>petunia</i> S-locus F-box-containing E3 ligase complex involved in S-RNase-based self-incompatibility. <i>Plant Cell</i> , <b>2006</b> , 18, 2531-53	11.6	132
57	<i>Petunia</i> phospholipase c1 is involved in pollen tube growth. <i>Plant Cell</i> , <b>2006</b> , 18, 1438-53	11.6	178
56	Identification and characterization of PiORP1, a <i>Petunia</i> oxysterol-binding-protein related protein involved in receptor-kinase mediated signaling in pollen, and analysis of the ORP gene family in <i>Arabidopsis</i> . <i>Plant Molecular Biology</i> , <b>2006</b> , 61, 553-65	4.6	28
55	Distribution of self-compatible and self-incompatible populations of <i>Petunia axillaris</i> (Solanaceae) outside Uruguay. <i>Journal of Plant Research</i> , <b>2006</b> , 119, 419-30	2.6	27
54	Duplication of the S-locus F-box gene is associated with breakdown of pollen function in an S-haplotype identified in a natural population of self-incompatible <i>Petunia axillaris</i> . <i>Plant Molecular Biology</i> , <b>2005</b> , 57, 141-53	4.6	48
53	The molecular and genetic bases of S-RNase-based self-incompatibility. <i>Plant Cell</i> , <b>2004</b> , 16 Suppl, S72-83	1.6	199
52	Chromosome walking in the <i>Petunia inflata</i> self-incompatibility (S-) locus and gene identification in an 881-kb contig containing S2-RNase. <i>Plant Molecular Biology</i> , <b>2004</b> , 54, 727-42	4.6	64
51	Identification of the pollen determinant of S-RNase-mediated self-incompatibility. <i>Nature</i> , <b>2004</b> , 429, 302-5	50.4	327

50	Genetic mapping and molecular characterization of the self-incompatibility (S) locus in <i>Petunia inflata</i> . <i>Plant Molecular Biology</i> , <b>2003</b> , 53, 565-80	4.6	60
49	Breakdown of self-incompatibility in a natural population of <i>Petunia axillaris</i> caused by a modifier locus that suppresses the expression of an S-RNase gene. <i>Sexual Plant Reproduction</i> , <b>2003</b> , 15, 255-263		41
48	Breakdown of self-incompatibility in a natural population of <i>Petunia axillaris</i> caused by loss of pollen function. <i>Plant Physiology</i> , <b>2003</b> , 131, 1903-12	6.6	40
47	S-RNase-mediated self-incompatibility. <i>Journal of Experimental Botany</i> , <b>2003</b> , 54, 115-22	7	34
46	Differentiation in the status of self-incompatibility among <i>Calibrachoa</i> species (Solanaceae). <i>Journal of Plant Research</i> , <b>2002</b> , 115, 185-93	2.6	9
45	Changes in root cap pH are required for the gravity response of the <i>Arabidopsis</i> root. <i>Plant Cell</i> , <b>2001</b> , 13, 907-21	11.6	229
44	Isolation and characterization of kinase interacting protein 1, a pollen protein that interacts with the kinase domain of PRK1, a receptor-like kinase of <i>petunia</i> . <i>Plant Physiology</i> , <b>2001</b> , 126, 1480-92	6.6	37
43	Changes in Root Cap pH Are Required for the Gravity Response of the <i>Arabidopsis</i> Root. <i>Plant Cell</i> , <b>2001</b> , 13, 907	11.6	5
42	Evidence that intragenic recombination contributes to allelic diversity of the S-RNase gene at the self-incompatibility (S) locus in <i>Petunia inflata</i> . <i>Plant Physiology</i> , <b>2001</b> , 125, 1012-22	6.6	68
41	Interaction of PRK1 receptor-like kinase with a putative eIF2B beta-subunit in tobacco. <i>Molecules and Cells</i> , <b>2000</b> , 10, 626-32	3.5	3
40	Molecular recognition and response in pollen and pistil interactions. <i>Annual Review of Cell and Developmental Biology</i> , <b>2000</b> , 16, 333-64	12.6	170
39	Construction of a binary bacterial artificial chromosome library of <i>Petunia inflata</i> and the isolation of large genomic fragments linked to the self-incompatibility (S-) locus. <i>Genome</i> , <b>2000</b> , 43, 820-826	2.4	35
38	Identification of self-incompatibility (S-) locus linked pollen cDNA markers in <i>Petunia inflata</i> . <i>Genome</i> , <b>2000</b> , 43, 619-627	2.4	47
37	Identification of self-incompatibility (S-) locus linked pollen cDNA markers in <i>Petunia inflata</i> . <i>Genome</i> , <b>2000</b> , 43, 619-627	2.4	19
36	Construction of a binary bacterial artificial chromosome library of <i>Petunia inflata</i> and the isolation of large genomic fragments linked to the self-incompatibility (S-) locus. <i>Genome</i> , <b>2000</b> , 43, 820-826	2.4	14
35	The sensitivity of barley aleurone tissue to gibberellin is heterogeneous and may be spatially determined. <i>Plant Physiology</i> , <b>1999</b> , 120, 361-70	6.6	34
34	The emerging complexity of self-incompatibility (S-) loci. <i>Sexual Plant Reproduction</i> , <b>1999</b> , 12, 1-5		40
33	Breakdown of self-incompatibility in a natural population of <i>Petunia axillaris</i> (Solanaceae) in Uruguay containing both self-incompatible and self-compatible plants. <i>Sexual Plant Reproduction</i> , <b>1999</b> , 12, 6-13		45

32	A GFP-MAP4 reporter gene for visualizing cortical microtubule rearrangements in living epidermal cells. <i>Plant Cell</i> , <b>1998</b> , 10, 1927-40	11.6	320
31	A GFP-MAP4 Reporter Gene for Visualizing Cortical Microtubule Rearrangements in Living Epidermal Cells. <i>Plant Cell</i> , <b>1998</b> , 10, 1927	11.6	199
30	A Mutant S 3 RNase of <i>Petunia inflata</i> Lacking RNase Activity Has an Allele-Specific Dominant Negative Effect on Self-Incompatibility Interactions. <i>Plant Cell</i> , <b>1997</b> , 9, 85	11.6	18
29	Cytological study of pollen tube growth and early seed development in <i>Petunia inflata</i> <b>1997</b> , 40, 212-219		3
28	Molecular mechanisms of self-incompatibility. <i>Current Opinion in Biotechnology</i> , <b>1996</b> , 7, 150-154	11.4	14
27	PRK1, a receptor-like kinase of <i>Petunia inflata</i> , is essential for postmeiotic development of pollen. <i>Plant Journal</i> , <b>1996</b> , 9, 613-624	6.9	76
26	S-allele sequence diversity in natural populations of <i>Solanum carolinense</i> (Horsenettle). <i>Heredity</i> , <b>1995</b> , 75 ( Pt 4), 405-15	3.6	96
25	Disputed Ancestry: Comments on a Model for the Origin of Incompatibility in Flowering Plants [with Reply]. <i>Plant Cell</i> , <b>1995</b> , 7, 661	11.6	2
24	Carbohydrate Moiety of the <i>Petunia inflata</i> S 3 Protein Is Not Required for Self-Incompatibility Interactions between Pollen and Pistil. <i>Plant Cell</i> , <b>1994</b> , 6, 1933	11.6	11
23	Characterization of a predominantly pistil-expressed gene encoding a gamma-thionin-like protein of <i>Petunia inflata</i> . <i>Plant Molecular Biology</i> , <b>1994</b> , 26, 459-64	4.6	61
22	Characterization of a pollen-expressed gene encoding a putative pectin esterase of <i>Petunia inflata</i> . <i>Plant Molecular Biology</i> , <b>1994</b> , 25, 539-44	4.6	70
21	S proteins control rejection of incompatible pollen in <i>Petunia inflata</i> . <i>Nature</i> , <b>1994</b> , 367, 560-3	50.4	354
20	Characterization of a Pollen-Expressed Receptor-Like Kinase Gene of <i>Petunia inflata</i> and the Activity of Its Encoded Kinase. <i>Plant Cell</i> , <b>1994</b> , 6, 709	11.6	16
19	Gametophytic self-incompatibility: biochemical, molecular genetic, and evolutionary aspects. <i>International Review of Cytology</i> , <b>1992</b> , 140, 449-83		21
18	Expression of two S-ribonucleases of <i>Petunia inflata</i> using baculovirus expression system. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 187, 299-304	3.4	6
17	The flanking regions of two <i>Petunia inflata</i> S alleles are heterogeneous and contain repetitive sequences. <i>Plant Molecular Biology</i> , <b>1992</b> , 18, 725-37	4.6	86
16	Cloning and sequencing of cDNAs encoding two S proteins of a self-compatible cultivar of <i>Petunia hybrida</i> . <i>Plant Molecular Biology</i> , <b>1992</b> , 19, 523-8	4.6	20
15	RNase X2, a pistil-specific ribonuclease from <i>Petunia inflata</i> , shares sequence similarity with solanaceous S proteins. <i>Plant Molecular Biology</i> , <b>1992</b> , 20, 1131-41	4.6	63

14	Sequence of an S-protein of <i>Lycopersicon peruvianum</i> and comparison with other solanaceous S-proteins. <i>Sexual Plant Reproduction</i> , <b>1992</b> , 5, 256		45
13	Ethylene Synthesis and Floral Senescence following Compatible and Incompatible Pollinations in <i>Petunia inflata</i> . <i>Plant Physiology</i> , <b>1992</b> , 99, 38-45	6.6	54
12	S-alleles are retained and expressed in a self-compatible cultivar of <i>Petunia hybrida</i> . <i>Molecular Genetics and Genomics</i> , <b>1991</b> , 230, 353-8		61
11	Characterization of Ribonuclease Activity of Three S-Allele-Associated Proteins of <i>Petunia inflata</i> . <i>Plant Physiology</i> , <b>1991</b> , 96, 61-8	6.6	86
10	Cloning and sequencing of cDNAs encoding two self-incompatibility associated proteins in <i>Solanum chacoense</i> . <i>Molecular Genetics and Genomics</i> , <b>1990</b> , 224, 341-6		54
9	Self-incompatibility in <i>Petunia inflata</i> : isolation and characterization of cDNAs encoding three S-allele-associated proteins. <i>Sexual Plant Reproduction</i> , <b>1990</b> , 3, 130		72
8	Isolation and nucleotide sequence of the pea cytochrome oxidase subunit I gene. <i>Plant Molecular Biology</i> , <b>1989</b> , 13, 121-4	4.6	13
7	Rice mitochondrial genome contains a rearranged chloroplast gene cluster. <i>Molecular Genetics and Genomics</i> , <b>1988</b> , 213, 247-53		27
6	Sequence of the chloroplast-encoded atpB-atpE-trnM gene clusters from rice. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 4358-9	20.1	7
5	Rice chloroplast DNA molecules are heterogeneous as revealed by DNA sequences of a cluster of genes. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 611-30	20.1	53
4	Pea cytochrome oxidase subunit II gene has no intron and generates two mRNA transcripts with different 5' termini. <i>Nucleic Acids Research</i> , <b>1985</b> , 13, 3195-212	20.1	63
3	Isolation and characterization of rat and human glyceraldehyde-3-phosphate dehydrogenase cDNAs: genomic complexity and molecular evolution of the gene. <i>Nucleic Acids Research</i> , <b>1985</b> , 13, 2485-502	20.1	1690
2	Cytochrome oxidase subunit II gene of rice has an insertion sequence within the intron. <i>Nucleic Acids Research</i> , <b>1984</b> , 12, 7305-15	20.1	96
1	Formation and properties of a covalent complex between elongation factor Tu and Phe-tRNA bearing a photoaffinity probe on its 3-(3-amino-3-carboxypropyl)uridine residue. <i>Journal of Molecular Biology</i> , <b>1983</b> , 166, 383-405	6.5	27