Satoshi Iwakami

List of Publications by Citations

22 papers	577 citations	12 h-index	24 g-index
26 ext. papers	834 ext. citations	5.1 avg, IF	4.32 L-index

#	Paper	IF	Citations
22	Cytochrome P450 CYP81A12 and CYP81A21 Are Associated with Resistance to Two Acetolactate Synthase Inhibitors in Echinochloa phyllopogon. *Plant Physiology*, **2014**, 165, 618-629	6.6	97
21	A novel rice cytochrome P450 gene, CYP72A31, confers tolerance to acetolactate synthase-inhibiting herbicides in rice and Arabidopsis. *Plant Physiology*, **2014**, 166, 1232-40	6.6	73
20	Cytochrome P450 genes induced by bispyribac-sodium treatment in a multiple-herbicide-resistant biotype of Echinochloa phyllopogon. *Pest Management Science*, **2014**, 70, 549-58	4.6	69
19	Isolation and expression of genes for acetolactate synthase and acetyl-CoA carboxylase in Echinochloa phyllopogon, a polyploid weed species. *Pest Management Science*, **2012**, 68, 1098-106	4.6	64
18	CYP81A P450s are involved in concomitant cross-resistance to acetolactate synthase and acetyl-CoA carboxylase herbicides in Echinochloa phyllopogon. *New Phytologist*, **2019**, 221, 2112-2122	9.8	55
17	Herbicide Metabolism: Crop Selectivity, Bioactivation, Weed Resistance, and Regulation. *Weed Science*, **2019**, 67, 149-175	2	35
16	Role of CYP81A cytochrome P450s in clomazone metabolism in Echinochloa phyllopogon. *Plant Science*, **2019**, 283, 321-328	5.3	32
15	Multiple-herbicide resistance in Echinochloa crus-galli var. formosensis, an allohexaploid weed species, in dry-seeded rice. *Pesticide Biochemistry and Physiology*, **2015**, 119, 1-8	4.9	29
14	Cytochrome P450-mediated herbicide metabolism in plants: current understanding and prospects. *Pest Management Science*, **2021**, 77, 22-32	4.6	28
13	Functional characterization of cytochrome P450 CYP81A subfamily to disclose the pattern of cross-resistance in Echinochloa phyllopogon. *Plant Molecular Biology*, **2020**, 102, 403-416	4.6	25
12	Copy Number Variation in Acetolactate Synthase Genes of Thifensulfuron-Methyl Resistant (Shortawn Foxtail) Accessions in Japan. *Frontiers in Plant Science*, **2017**, 8, 254	6.2	21
11	Occurrence of sulfonylurea resistance in Sagittaria trifolia, a basal monocot species, based on target-site and non-target-site resistance. *Weed Biology and Management*, **2014**, 14, 43-49	1.4	21
10	Precision genome editing in plants via gene targeting and subsequent break-induced single-strand annealing. *Plant Biotechnology Journal*, **2021**, 19, 563-574	11.6	8
9	Quinclorac resistance in Echinochloa phyllopogon is associated with reduced ethylene synthesis rather than enhanced cyanide detoxification by □-cyanoalanine synthase. *Pest Management Science*, **2020**, 76, 1195-1204	4.6	8
8	Characterization of the acetolactate synthase gene family in sensitive and resistant biotypes of two tetraploid Monochoria weeds, M. vaginalis and M. korsakowii. *Pesticide Biochemistry and Physiology*, **2020**, 165, 104506	4.9	3
7	Gene expression shapes the patterns of parallel evolution of herbicide resistance in the agricultural weed Monochoria vaginalis. *New Phytologist*, **2021**, 232, 928-940	9.8	3
6	Investigation of clomazone-tolerance mechanism in a long-grain cultivar of rice. *Pest Management Science*, **2021**, 77, 2454-2461	4.6	3

5	Heterologous expression of CYP81A6 from rice (Oryza sativa) in Escherichia coli and structural analyses of bensulfuron-methyl metabolites. *Weed Biology and Management*, **2021**, 21, 164-171	1.4	2
4	Mutations of acetolactate synthase gene and response of sulfonylurea-resistant biotypes of Sagittaria trifolia L. to several herbicides in Yamagata, Japan. *Journal of Weed Science and Technology*, **2017**, 62, 117-125	0	1
3	Thiobencarb resistance mechanism is distinct from CYP81A-based cross-resistance in late watergrass (Echinochloa phyllopogon). *Weed Science*,1-7	2	0
2	Study on the molecular mechanism of non-target-site resistance in several paddy weeds. *Journal of Weed Science and Technology*, **2015**, 60, 169-173	0	
1	Towards the understanding of the mechanism of multiple-herbicide resistance in Echinochloa phyllopogon. *Japanese Journal of Pesticide Science*, **2018**, 43, 40-45	0	