
Author Index to Volume 48

A		F		LEE, Chi-Fen	273
AGRAWAL, Dinesh Chandra	397	FAN, Jing	165	LEE, Tse-Min	419
ASSADI, M.	233	FANG, Shao-An	263	LI, Ding-Li	165
B		FENG, Jia	459	LI, Hui	13
BENNY, Gerald L.	319	FRANCESCHI, Vincent R.	155	LI, Jian-Hua	239
C		FU, Cheng-Xin	239	LI, Jining	55
CHAN, Ming-Tsir	25	G		LI, Pei-Fang	243
CHANG, Doris Chi-Ning	445	GAO, Shimei	173	LI, Shao-Qing	293
CHANG, Heng-Yuan	407	GONG, Wei	239	LIANG, Hong-Jen	63
CHANG, Hung-Chi	397	GUO, Wen-Wu	165	LIANG, Li-Ling	377
CHANG, Jong-How	91	GUU, Jia-Rong	187	LIN, Chun-Hung	25
CHANG, Jui-Sheng	117	H		LIN, Kuan-Hung	25, 283
CHANG, Kuan-Yee	283	HAMDI, S.M.M.	233	LIN, Sin-Haw	419
CHANG, Tun-Tschu	287	HO, Hsiao-Man	319	LIN, Yao-Cheng	243, 263
CHANG, Yuan-Shiun	133, 407	HO, Yu-Ling	407	LIN, Yaw-Huei	133, 407
CHAO, Yu-Chan	273	HOU, Roger F.	273	LIU, Chin-Hui	91
CHARLES, Albert Linton	71	HOU, Wen-Chi	63, 141	LIU, Gai	293
CHARNG, Yuh-Chyang	1	HOUR, Ai-Ling	243	LIU, Hao-Yu	63
CHEN, Bao-Ming	331	HSIEH, Chia-Shan	1	LIU, Lijun	173
CHEN, Bo	255	HSIEH, Huan-Ju	187	LIU, Peng	435
CHEN, Chaur-Tzuhn	71	HSIEH, Ting-Fang	181	LIU, Sin-Yie	63
CHEN, Chung-Sin	419	HSIEH, Tsung-Hsin	205	LIU, Xin	165
CHEN, Chyi-Chuann	215	HSIEH, Tung-Yu	127, 349	LIU, Yan	465
CHEN, Hsien-Jung	133	HSING, Yue-Ie C.	243	LIU, Yuh-Hwa	141
CHEN, Jan-Chang	71	HSU, Sheng-Yuan	205	LO, Hsiao-Feng	25, 283
CHEN, Jingjing	55	HSU, Tien-Chuan	349	LU, Bo	43
CHEN, Xiaoqiang	13	HSU, Tsai-Wen	357	LU, Wei-Fu	243
CHEN, Xin	453	HSU, Zhi-Fu	97	M	
CHEN, Yen-Fu	283	HUANG, Guan-Jhong	133, 397, 407	MEHTA, Surya Kant	43
CHEN, Yi-Pei	377	HUANG, Hung-Chang	181	N	
CHEN, Yung-Reui	215	HUANG, Ji-Ying	1	NEJADSATARI, T.	233
CHENG, Huey-Chuan	63	HUANG, Si Qi	43	NGYUEN, Quang Hieu	127
CHENG, Yueh-Yun	263	HUANG, Yao-Moan	205	NI, Guang-Yan	331
CHIOU, Wen-Liang	205	HWANG, Ray-Lien	419	P	
CHOU, Hsueh-Mei	205	HWANG, Shih-Ying	283	PENG, Ching-I	127, 349, 357, 465
CHOU, Jui-Yu	117	J		PENG, Dingxiang	173
CHOU, Ling-Chin	445	JU, Yu-Ming	187	PENG, Shao-Lin	331
CHOW, Teh-Yuan	243	K		Q	
CHU, Fang-Hua	387	KO, Wen-Hsiung	79, 365	QIU, Ying-Xiong	239
CHUAN, Han-Ning	1	KONO, Yoshiko	349	S	
CHUANG, Mao-Te	141	KU, Maurice S. B.	155	SANSO, Andrea Mariel	311
CHUNG, I-Chi	419	KU, Shin-Ming	349, 465	SHANG, Huey-Fang	63
CHUNG, Mei-Chu	263	KUAI, Benke	55	SHAO, Zhiyu	55
CHUNG, Yuh-Lurng	71	KUO, Chao-Lin	397	SHEU, Ming-Jyh	133, 407
D		KUO-HUANG, Ling-Long	155	SHIEH, Ya-Hsiung	1
DUAN, Yan-Xin	165	L		SONG, Li-Ying	331
E		LAI, Yung-Chung	283	SONG, Wenqin	13
ERICKSON, R. Scott	181			SONG, Yun-Chun	255

SU, Shih-Wei	419	WANG, Ying	35	Y	
SUN, Xue Mei	43	WANG, Yuan-Chao	79	YANG, Chi-Ming	71
SUN, Zhenxia	173	WEI, Fu-Jin	243	YANG, Fu-Hung	91
T		WEI, Wen-Hui	255	YANG, Ru-Yi	453
TANG, Jian-Jun	453	WEN, Li	293	YANG, Y.S.	435
TAO, Jun	293	WONG, Shau-Lian	205	YANG, Yi-Song	453
TIANG, Choon-Lin	357	WU, Chi-Chih	97	YANG, Zhi Min	43
TSAY, Hsin-Sheng	397	WU, Chi-Rei	397	YEH, Ling-Chun	1
TSENG, Ching-Ping	377	WU, Gideon	1	YUAN, Gwo-Fang	377
TSENG, Mu-Chuan	407	WU, Jing-Ying	419	Z	
TSOU, Chih-Hua	97	WU, Qiang-Sheng	147	ZHANG, Feng	339
TU, Jenn	1	WU, Reng-Chao	165	ZHANG, Jin-Tun	339
TUAN, Shu-Jen	273	WU, Sheng-Hua	325, 407	ZHANG, Ming-Yong	35
W		WU, Shou-Tsung	71	ZHANG, Na	173
WAN, Cui-Xiang	293	WU, Tzure-Meng	419	ZHANG, Su-Feng	255
WANG, Bo	173	WU, Xiao-Ming	255	ZHANG, Xiao-Bin	435
WANG, Chunguo	13	WULFF, Arturo Federico	311	ZHANG, Yunhai	55
WANG, Chun-Lin	377	X		ZHANG, Yunhai	55
WANG, Li-Jun	255	XIA, Ren-Xue	147	ZHANG, Zai-Jun	293
WANG, Ming-Yuan	147	XIAO, Long-Qian	227	ZHANG, Zheng-Guang	79
WANG, Wei	55	XIE, Shu-lian	459	ZHAO, Yun-Peng	239
WANG, Wei-Lung	117	XU, Gen-Di	435	ZHENG, Xiao-Bo	79
WANG, Ya-Qin	35	XU, Kai-Yang	293	ZHU, Hua	227
		XU, Lai Lang	43	ZHU, Shu-Ying	35
				ZHU, Ying-Guo	293
				ZOU, Ying-Ning	147

Keyword Index to Volume 48

A		Construction cost	331
<i>Ac</i> transposase	1	Corticiaceae	325
AcMNPV	273	<i>Cosmospora</i>	187
Actinidia macrosperma	239	Cot-1 DNA	255
Actinidia valvata	239	Cotyledon	173
Active-oxygen scavenging activity	55	Cryptochiasmate meiosis	311
α hormones	365	Crystals	155
<i>Albonectria</i>	187	Cytoplasmic male sterility (CMS)	13, 293
Alginic acid hydroxamates	141	D	
Alstroemeriaceae	311	1, 1-diphenyl-2-picrylhydrazyl (DPPH) radical	55
Aluminium	435	1, 1-diphenyl-2-picrylhydrazyl (DPPH)	407
<i>Ammopiptanthus mongolicus</i>	55	<i>Dentipellis</i>	325
Angiotensin converting enzyme (ACE)	141	<i>Dioscorea</i>	63
Anther	293	DPPH	141
Antioxidant activity	133, 397	Drought	147
<i>Antrodia cinnamomea</i>	387	Dung	319
<i>Arabidopsis</i>	35	E	
Arbuscular mycorrhizal fungi	147	Eggplant	25
<i>Archangiopteris somai</i>	205	Electron paramagnetic resonance (EPR)	55
Ascorbate peroxidase	25	Endemic species	357
Assemblage	419	Epithem	215
<i>atpB</i> gene	117	<i>Erwinia rhapontici</i>	181
<i>Autographa californica</i> nucleopolyhedrovirus	273	<i>Eurya</i>	97
Auxin	165	Eusporangiate fern	205
B		Expressed sequence tag (EST)	243
Bacterial artificial chromosome	377	Expressed sequence tags	387
Basidiomycota	325	F	
Batrachospermaceae	459	Ferric reducing antioxidant power assay (FRAP)	407
<i>Batrachospermum hongdongense</i>	459	<i>Ficus formosana</i> Maxim.	215
<i>Begonia bamaensis</i>	465	Flooding	25
<i>Begonia bonii</i>	465	Flower	35
<i>Begonia cirrosa</i>	465	Fluid-phase endocytosis	215
<i>Begonia kui</i>	127	Fluorescent <i>in situ</i> hybridization (FISH)	263
<i>Begonia morsei</i>	465	Free radicals	407
<i>Begonia variegata</i>	127	Functional groups	339
Begoniaceae	465	G	
β -elimination	141	Gametophyte	205
Bionectriaceae	187	Gene expression	133
<i>Boehmeria nivea</i> Gaud	173	Genetic transformation	165
<i>Brassica napus</i>	43	<i>Gentiana bambuseti</i>	349
<i>Brassica oleracea</i> L.	255	<i>Gentiana zollingerii</i>	349
C		<i>Glomus</i>	147
Cadmium	43	Glutathione reduced form (GSH)	407
Calcium oxalate	155	Glutathione transporter	35
Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>)	13	Green fluorescent protein	165
CCA	339	Guangxi	465
Characeae	117	Gusuibu	397
China	459, 465	H	
Chromosome cytology	349	<i>Haematonectia</i>	187
Chromosome number	357, 465		
Chromosomes	205, 311		
Citrus	147, 165		

High-performance liquid chromatography tandem mass (LC/MS/MS)	407	N	
Host specificity	181	N and P uptake	453
Hydathodes	215	<i>Nectria</i>	187
Hypocreales	187	Nectriaceae	187
I		<i>Neonectria</i>	187
Immunostimulatory	63	Neurotoxin	273
Inducible promoter	1	New species	127, 233, 325, 349, 357, 465
Induction type change	365	Nipponbare	243
Inoculation	445	<i>Nitella</i>	117
Insecticidal efficacy	273	Nk cell	63
Invasive plant species	453	Non-LTR retrotransposon	377
Invasive species	331	Nutrient	419
Iran	233	O	
ITS rDNA	79	Oblique cut	165
ITS	97	Oospore formation	365
J		<i>Ophionectria</i>	187
Juvenile sporophyte	205	Ordination	339
K		Organelle transplantation	365
Karyotype analysis	349	Organogenesis	173
Karyotype	357	<i>Oryza punctata</i>	263
Karyotyping	255	<i>Oryza sativa</i> L.	293
L		P	
Lasiantheae	227	Paraphyly	227
<i>Lasianthus</i>	227	PCR-RFLP	239
Leaf chlorophyll	71	Pelotons	445
<i>Leiurus quinquestriatus hebraeus</i>	273	<i>Peniophora</i>	325
Lentinan	63	<i>Peperomia</i>	155
Liliaceae	357	<i>Perichaena</i>	91
Limestone flora	465	<i>Peronophythora litchi</i>	79
Linaria	233	Phagocytic activity	63
Lipid peroxidation	55	<i>Phanerochaete</i>	325
<i>Litosanthes</i>	227	<i>Phellinus merrillii</i> (PM)	407
<i>Lychnothamnus</i>	117	Photosynthesis	155
M		Photosynthetic characteristics	435
Macroalgae	419	Phylogenesis	25
Marattiaceae	205	Phylogenetic analysis	377
Mass spectrometry	293	Phylogeny	97
Maternal effect	283	Physiological characteristics	435
Medicinal fern	397	<i>Phytophthora</i>	79, 365
Medicinal fungus	387	Pink seed disease	181
Meiotic behaviour	311	Plastic bag cultivation method	445
Metal lead	453	<i>Plutella xylostella</i>	273
<i>Mikania micrantha</i> H.B.K.	331	Pollen staining	311
Mitochondrial gene control	365	Polyhedral production	273
mNDVI	71	Polyphenols contents	397
Molecular marker	239	Portable spectroradiometers	71
<i>Monascus pilosus</i>	377	Promoter	35
Morphological differentiation	384	R	
Mucilage	63	Radical scavenging activity	397
Mycorrhizae	453	Ramie	173
Myxomycetes	91	RAP-DB	243
		Rare species	349, 465
		<i>rbcL</i> gene	117
		Real-Time PCR	25

- Reciprocal cross 283
 Recombinant protein 133
 Recombinant virus 273
 Reducing capacity 397
 Repetitive sequence 263
 Resveratrol 55
Rhizoctonia spp. 445
 Rhodophyta 459
 Ribosomal DNA 255
 Rice 35, 243
 RNA editing 13
 Root 35
rps16 intron 227
- S**
- 28S rDNA 79
 Salicylic acid 1
 Salinity 419
 Salt injury 215
 Scavenging effect 407
 Scrophulariaceae 233
 sect. *Coelocentrum* 127, 465
 sect. *Hirtae* 357
 Sequence similarity 79
 Sexual reproduction 365
 Shade plants 155
 Sheath layer 215
 Shoot formation 165
 Single-nucleotide polymorphisms (SNP) 243
 Soil variables 339
 Soil 319
 Soybean 435
 Species diversity 339
 Species-specific RAPD 263
 Specific leaf area 331
 Spectral reflectance 71
Spodoptera exigua 273
 Sporamin 133
 Spore 205
 SSCP (single-strand conformation polymorphism) 13
 Stomata complex 465
 Strain differentiation 181
 Structural heterozygosity 311
 Sulfate transporter 43
 Superoxide anion radical ($\cdot\text{O}_2^-$) 55
 Sweet potato breeding 283
 Sweet potato 133
- Syncephalis clavata* 319
Syncephalis formosana 319
 Systematics 187
- T**
- Taiwan 91, 97, 117, 325, 349, 357
 Taxonomy 233, 325, 349, 357
 Temperature 419
 Temporal variation 419
 Ternstroemiaceae 97
Tetraena mongolica 55
 The Ryukyus 97
 Thidiazuron 173
 TNG67 243
 Tolypophagy 445
 Topographic factors 339
 Total antioxidant capacity 407
 Total phenolics contents (TPC) 407
 Transcriptional expression 43
 Transposon tagging 1
Trichia 91
 Trichiales 91
Trichoplusia ni 273
Tricyrtis formosana 357
Tricyrtis hirta 357
Tricyrtis imeldae 357
Tricyrtis lasiocarpa 357
Tricyrtis ravenii 357
 Trolox equivalent antioxidant capacity (TEAC) 407
 True slime molds 91
 Two-dimensional electrophoresis 293
- V**
- Vegetation index 71
 Vegetation-environment relationship 339
 Vietnam 127
- W**
- Water pore 215
 Water relations 147
- Y**
- Yam 63
- Z**
- Zygomycetes 319

Table of Contents Volume 48

NUMBER 1**MOLECULAR BIOLOGY****The inducible transposon system for rice functional genomics**

Yuh-Chyang CHARNG, Gideon WU, Chia-Shan HSIEH, Han-Ning CHUAN, Ji-Ying, HUANG, Ling-Chun YE, Ya-Hsiung SHIEH, and Jenn TU 1

RNA editing analysis of mitochondrial nad3/rps12 genes in cytoplasmic male sterility and male-fertile cauliflower (*Brassica oleracea* var. *botrytis*) by cDNA-SSCP

Chunguo WANG, Xiaoqiang CHEN, Hui LI, and Wenqin SONG 13

Cloning and expression analysis of ascorbate peroxidase gene from eggplant under flooding stress

Kuan-Hung LIN, Hsiao-Feng LO, Chun-Hung LIN, and Ming-Tsir CHAN 25

Tissue and inducible expression of a rice glutathione transporter gene promoter in transgenic *Arabidopsis*

Ya-Qin WANG, Shu-Ying ZHU, Ying WANG, and Ming-Yong ZHANG 35

BIOCHEMISTRY**Coordinated expression of sulfate transporters and its relation with sulfur metabolites in *Brassica napus* exposed to cadmium**

Xue Mei SUN, Bo LU, Si Qi HUANG, Surya Kant MEHTA, Lai Lang XU, and Zhi Min YANG 43

Extraordinary accumulations of antioxidants in *Ammopiptanthus mongolicus* (Leguminosae) and *Tetraena mongolica* (Zygophyllaceae) distributed in extremely stressful environments

Wei WANG, Jingjing CHEN, Jining LI, Yunhai ZHANG, Zhiyu SHAO, and Benke KUAI 55

Immunostimulatory activities of yam tuber mucilages

Huey-Fang SHANG, Huey-Chuan CHENG, Hong-Jen LIANG, Hao-Yu LIU, Sin-Yie LIU, and Wen-Chi HOU 63

PHYSIOLOGY**Leaf chlorophyll content and surface spectral reflectance of tree species along a terrain gradient in Taiwan's Kenting National Park**

Jan-Chang CHEN, Chi-Ming YANG, Shou-Tsung WU, Yuh-Lurng CHUNG, Albert Linton CHARLES, and Chaur-Tzuhn CHEN 71

MICROBIOLOGY**Evaluation of the rearrangement of taxonomic position of *Peronophythora litchii* based on partial DNA sequences**

Zheng-Guang ZHANG, Xiao-Bo ZHENG, Yuan-Chao WANG, and Wen-Hsiung KO 79

Myxomycetous Genera *Perichaena* and *Trichia* in Taiwan

Chin-Hui LIU, Jong-How CHANG, and Fu-Hung YANG 91

TAXONOMY**Phylogeny and taxonomy of *Eurya* (Ternstroemiaceae) from Taiwan, as inferred from ITS sequence data**

Chi-Chih WU, Zhi-Fu HSU, and Chih-Hua TSOU 97

Three new members of Characeae (Charales, Chlorophyta) from Taiwan, including one endangered monospecific genus

Jui-Yu CHOU, Wei-Lung WANG, and Jui-Sheng CHANG 117

- Begonia kui* (sect. *Coelocentrum*, Begoniaceae), a new species from Vietnam**
Ching-I PENG, Tung-Yu HSIEH, and Quang Hieu NGYUEN 127
- Instructions to Authors** i

NUMBER 2

BIOCHEMISTRY

- Recombinant sporamin and its synthesized peptides with antioxidant activities *in vitro***
Guan-Jhong HUANG, Hsien-Jung CHEN, Yuan-Shiun CHANG, Ming-Jyh SHEU, and Yaw-Huei LIN 133
- Methanol-soluble, β -eliminatin ion products from preparations of alginic acid hydroxamate exhibited DPPH scavenging and angiotensin converting enzyme inhibitory activities**
Yuh-Hwa LIU, Mao-Te CHUANg, and Wen-Chi HOU 141

PHYSIOLOGY

- Five *Glomus* species affect water relations of *Citrus tangerine* during drought stress**
Qiang-Sheng WU, Ying-Ning ZOU, Ren-Xue XIA, and Ming-Yuan WANG 147
- Correlations between calcium oxalate crystals and photosynthetic activities in palisade cells of shadeadapted *Peperomia glabella***
Ling-Long KUO-HUANG, Maurice S. B. KU, and Vincent R. FRANCESCHI 155
- Multiple shoot induction from seedling epicotyls and transgenic citrus plant regeneration containing the green fluorescent protein gene**
Yan-Xin DUAN, Xin LIU, Jing FAN, Ding-Li LI, Reng-Chao WU, and Wen-Wu GUO 165
- An efficient adventitious shoot regeneration system for ramie (*Boehmeria nivea* gaud) using thidiazuron**
Bo WANG, Dingxiang PENG, Lijun LIU, Zhenxia SUN, Na ZHANG, and Shimei GAO 173

MICROBIOLOGY

- Lack of host specificity of strains of *Erwinia rhapontici*, causal agent of pink seed of pulse and cereal crops**
Hung-Chang HUANG, R. Scott ERICKSON, and Ting-Fang HSIEH 181
- Nectriaceous fungi collected from forests in Taiwan**
Jia-Rong GUU, Yu-Ming JU, and Huan-Ju HSIEH 187

MORPHOLOGY

- Observations on gametophytes and juvenile sporophytes of *Archangiopteris somai* hayata (marattiaceae), an endangered fern in Taiwan**
Hsueh-Mei CHOU, Yao-Moan HUANG, Shau-Lian WONG, Tsung-Hsin HSIEH, Sheng-Yuan HSU, and Wen-Liang CHIOU 205
- Study on laminar hydathodes of *Ficus formosana* (Moraceae) III. Salt injury of guttation on hydathodes**
Chyi-Chuann CHEN and Yung-Reui CHEN 215

PLANT BIOSYSTEMATICS

- Paraphyly and phylogenetic relationships in *Lasianthus* (Rubiaceae) inferred from chloroplast *rps16* data**
Long-Qian XIAO and Hua ZHU 227

TAXONOMY

- Linaria farsensis*, a new species of *Linaria miller* Sect. *Linaria* (Scrophulariaceae) from Iran**
S.M.M. HAMDI, M. ASSADI, and T. NEJADSATARI 233

Instructions to Authors i

NUMBER 3**MOLECULAR BIOLOGY**

- Authentication of *Actinidia macrosperma* using PCRFLP based on *trnK* sequences**
Yun-Peng ZHAO, Ying-Xiong QIU, Wei GONG, Jian-Hua LI, and Cheng-Xin FU 239

- Detection of SNPs between Tainung 67 and Nipponbare rice cultivars**
Ai-Ling HOUR, Yao-Cheng LIN, Pei-Fang LI, Teh-Yuan CHOW, Wei-Fu LU, Fu-Jin WEI, and Yue-le C. HSING 243

- Karyotyping of *Brassica oleracea* L. based on Cot-1 and ribosomal DNAs**
Wen-Hui WEI, Su-Feng ZHANG, Li-Jun WANG, Bo CHEN, Xiao-Ming WU, and Yun-Chun SONG 255

- A repetitive sequence specific to *Oryza* species with BB genome and abundant in *Oryza punctata* Kotschy ex Steud**
Yueh-Yun CHENG, Shao-An FANG, Yao-Cheng LIN, and Mei-Chu CHUNG 263

BIOCHEMISTRY

- High level production of polyhedra in a scorpion toxin-containing recombinant baculovirus for better control of insect pests**
Shu-Jen TUAN, Roger F. HOU, Chi-Fen LEE, and Yu-Chan CHAO 273

- Improving breeding efficiency for quality and yield of sweet potato**
Kuan-Hung LIN, Yung-Chung LAI, Kuan-Yee CHANG, Yen-Fu CHEN, Shih-Ying HWANG, and Hsiao-Feng LO 283

PHYSIOLOGY

- Proteomic analysis of anthers from honglian cytoplasmic male sterility line rice and its corresponding maintainer and hybrid**
Li WEN, Gai LIU, Shao-Qing LI, Cui-Xiang WAN, Jun TAO, Kai-Yang XU, Zai-Jun ZHANG, and Ying-Guo ZHU 293

CYTOGENETICS

- Meiotic irregularities in *Alstroemeria andina* var. *venustula* (Alstroemeriaceae)**
Andrea Mariel SANSONO and Arturo Federico WULFF 311

MICROBIOLOGY

- Two new species of *Syncephalis* from Taiwan, with a key to the *Syncephalis* species found in Taiwan**
Hsiao-Man HO and Gerald L. BENNY 319

- Three new species of corticioid fungi from Taiwan**
Sheng-Hua WU 325

ECOLOGY

- Energetic cost of leaf construction in the invasive weed *Mikania micrantha* H.B.K. and its co-occurring species: implications for invasiveness**
Li-Ying SONG, Guang-Yan NI, Bao-Ming CHEN, and Shao-Lin PENG 331

Diversity and composition of plant functional groups in mountain forests of the lishan Nature Reserve, North China Jin-Tun ZHANG and Feng ZHANG	339
TAXONOMY	
<i>Gentiana bambuseti</i> (Gentianaceae), a new species from Taiwan Tung-Yu HSIEH, Tien-Chuan HSU, Yoshiko KONO, Shin-Ming KU, and Ching-I PENG	349
<i>Tricyrtis ravenii</i> (Liliaceae), a new species from Taiwan Ching-I PENG, Choon-Lin TIANG, and Tsai-Wen HSU	357
Instructions to Authors	i
NUMBER 4	
REVIEW PAPER	
Hormonal regulation of sexual reproduction in <i>Phytophthora</i> Wen-Hsiung KO	365
MOLECULAR BIOLOGY	
Characterization of MRT, a new non-LTR retrotransposon in <i>Monascus</i> spp. Yi-Pei CHEN, Ching-Ping TSENG, Li-Ling LIAW, Chun-Lin WANG, and Gwo-Fang YUAN	377
Basidiomatal formation in <i>Antrodia cinnamomea</i> from the perspective of gene expression Fang-Hua CHU and Tun-Tschu CHANG	387
BIOCHEMISTRY	
Antioxidant activities and polyphenol contents of six folk medicinal ferns used as “Gusuibu” Hung-Chi CHANG, Guan-Jhong HUANG, Dinesh Chandra AGRAWAL, Chao-Lin KUO, Chi-Rei WU, and Hsin-Sheng TSAY	397
Antioxidant and free radical scavenging activities of <i>Phellinus merrillii</i> extracts Heng-Yuan CHANG, Yu-Ling HO, Ming-Jyh SHEU, Yaw-Huei LIN, Mu-Chuan TSENG, Sheng-Hua WU, Guan-Jhong HUANG, and Yuan-Shiun CHANG	407
PHYSIOLOGY	
Nutrient, temperature and salinity as primary factors influencing the temporal dynamics of macroalgal abundance and assemblage structure on a reef of Du-Lang Bay in Taitung in southeastern Taiwan I-Chi CHUNG, Ray-Lien HWANG, Sin-Haw LIN, Tzure-Meng WU, Jing-Ying WU, Shih-Wei SU, Chung-Sin CHEN, and Tse-Min LEE	419
Effect of Al in soil on photosynthesis and related morphological and physiological characteristics of two soybean genotypes Xiao-Bin ZHANG, Peng LIU, Y.S. YANG, and Gen-Di XU	435
Growth responses, enzyme activities, and component changes as influenced by <i>Rhizoctonia</i> Orchid mycorrhiza on <i>Anoectochilus formosanus</i> Hayata Doris Chi-Ning CHANG and Ling-Chin CHOU	445
ECOLOGY	
Invasive and non-invasive plants differ in response to soil heavy metal lead contamination Ru-Yi YANG, Jian-Jun TANG, Yi-Song YANG, and Xin CHEN	453

TAXONOMY

***Batrachospermum hongdongense* (sect. *Batrachospermum*, Batrachospermaceae), a new species from Shanxi, China**

Shu-lian XIE and Jia FENG

459

***Begonia bamaensis* (sect. *Coelocentrum*, Begoniaceae), a new species from limestone areas in Guangxi, China**

Yan LIU, Shin-Ming KU, and Ching-I PENG

465

Author Index to Volume 48

475

Keyword Index to Volume 48

477

Instructions to Authors

i