

PPS Keyword List: Keywords related to Methods from PPS vol. 1 - 20

METHODS

Keyword		Article title (downloadable pdf link)	Author	Year	DOI
Antisense RNA (1)		Photosynthetic Characteristics of Antisense Transgenic Rice Expressing Reduced Levels of Rubisco Activase	Masumoto C, et al.	2012	10.1626/pps.15.174
Bioassay (3)	Bioassay (1)	Correlation between Growth Inhibitory Exhibition and Suspected Allelochemicals (Phenolic Compounds) in the Extract of Alfalfa (<i>Medicago sativa</i> L.)	Xuan TD, et al.	2003	10.1626/pps.6.165
	Donor-receiver bioassay (1)	A Quick Seeding Test for Allelopathic Potential of Bangladesh Rice Cultivars	Kato-Noguchi H, et al.	2009	10.1626/pps.12.47
	Lamina-inclination test (1)	The Promotive Effect of Brassinolide on Lamina Joint-Cell Elongation, Germination and Seedling Growth under Low-Temperature Stress in Rice (<i>Oryza sativa</i> L.)	Fujii S, et al.	2001	10.1626/pps.4.210
Blotting (1)	Eastern blotting (1)	Pharmacologically Active Saikosaponin in <i>Bupleurum falcatum</i> Detected by Competitive ELISA and Eastern Blotting Using Monoclonal Antibodies	Shon TK, et al.	2008	10.1626/pps.11.192
Bronzing (1)		Soil-based screening for iron toxicity tolerance in rice using pots	Sikirou M, et al.	2016	10.1080/1343943X.2016.1186496
Cross-contamination (1)		Decreasing radioactive cesium in lodged buckwheat grain after harvest	Kubo K, et al.	2016	10.1080/1343943X.2015.1128104
Cross-sectional area (1)		Effects of Shading on Hydraulic Resistance and Morphological Traits of Internode and Node of Napiergrass (<i>Pennisetum purpureum</i> Schumach.)	Nagasuga K, et al.	2008	10.1626/pps.11.352
Culture (14)	Aerobic culture (1)	Can Yields of Lowland Rice Resume the Increases that They Showed in the 1980s?	Horie T, et al.	2005	10.1626/pps.8.259
	Anther culture (6)	Effects of Physiological Status of Parent Plants and Culture Medium Composition on the Anther Culture of Sorghum	Can ND, et al.	1998	10.1626/pps.1.211
		Somaclonal Variation in Regenerants Derived from Anther Culture of Rice (<i>Oryza sativa</i> L.)	Sugimoto K, et al.	1999	10.1626/pps.2.71
		Combining Ability of Callus Induction and Plant Regeneration in Sorghum Anther Culture	Can ND, et al.	1999	10.1626/pps.2.125
		Improved Method for Anther Culture of an Indica Rice Cultivar of Thailand	Sripichitt P, et al.	2000	10.1626/pps.3.254
		Genetic Diversity of Regeneration Ability in Anther Culture of Rice (<i>Oryza sativa</i> L.)	Sugimoto K, et al.	2000	10.1626/pps.3.387
		Haploid Plantlet Production through Somatic Embryogenesis in Anther-Derived Callus of <i>Bupleurum falcatum</i>	Shon TK, et al.	2004	10.1626/pps.7.204
	Root tip culture (2)	Efficient Plant Regeneration in Garlic through Somatic Embryogenesis from Root Tip Explants	Haque MS, et al.	1998	10.1626/pps.1.216
		Anatomical Changes during in Vitro Direct Formation of Shoot Bud from Root Tips in Garlic (<i>Allium sativum</i> L.)	Haque MS, et al.	1999	10.1626/pps.2.146
	Subculture (1)	Plant Regeneration Capacity of Calluses Derived from Mature Seed of Five Indonesian Rice Genotypes	Carsono N, et al.	2006	10.1626/pps.9.71
	Tissue culture (4)	Efficient Plant Regeneration in Garlic through Somatic Embryogenesis from Root Tip Explants	Haque MS, et al.	1998	10.1626/pps.1.216
		Genotypic Difference of Sorghum bicolor in the Callus Formation and Callus Growth on Aluminum-Containing Medium	Anas A, et al.	2002	10.1626/pps.5.242
		A Histological Evaluation of Adventitious Bud Formation in Cotyledons in <i>Crotalaria juncea</i> L.	Daimon H, et al.	2002	10.1626/pps.5.301
		Screening of Regenerable Genotypes of Italian Ryegrass (<i>Lolium multiflorum</i> Lam.)	Takahashi W, et al.	2004	10.1626/pps.7.55
Detergent (3)	Acid detergent fiber (1)	Pod Dehiscence in Relation to Chemical Components of Pod Shell in Soybean	Romkaew J, et al.	2008	10.1626/pps.11.278
	Acid detergent lignin (1)	Pod Dehiscence in Relation to Chemical Components of Pod Shell in Soybean	Romkaew J, et al.	2008	10.1626/pps.11.278
	Neutral detergent fiber (1)	Pod Dehiscence in Relation to Chemical Components of Pod Shell in Soybean	Romkaew J, et al.	2008	10.1626/pps.11.278
Desiccation (3)	Desiccation treatment (1)	Improvement of Direct Somatic Embryogenesis in Rice by Selecting the Optimal Developmental Stage of Explant and Applying Desiccation Treatment	Mariani TS, et al.	2000	10.1626/pps.3.114

Desiccation (continued)	Desiccator method (1)	Pod Dehiscence in Soybean: Assessing Methods and Varietal Difference	Romkaew J, et al.	2006	10.1626/pps .9.373
	Oven-dried method (1)	Pod Dehiscence in Soybean: Assessing Methods and Varietal Difference	Romkaew J, et al.	2006	10.1626/pps .9.373
DNA fingerprinting (1)		Identification of Salicornia Populations: Comparison between Morphological Characterization and RAPD Fingerprinting	Sagane Y, et al.	2003	10.1626/pps .6.287
Electrofusion (1)		Ultrastructural Analysis of Electrofused Protoplasts from Pansy and Wild Viola by Scanning Electron Microscopy	Sato T, et al.	1998	10.1626/pps .1.288
Electron (2)	Backscattered electron (1)	Immunogold Labeling of Rubisco in C ₄ Plant Leaves for Scanning Electron Microscopy	Miyake H, et al.	2001	10.1626/pps .4.41
	Secondary electron (1)	Immunogold Labeling of Rubisco in C ₄ Plant Leaves for Scanning Electron Microscopy	Miyake H, et al.	2001	10.1626/pps .4.41
Electrophoresis (2)	Two-dimensional polyacrylamide gel electrophoresis (2D SDS-PAGE) (2)	Effect of Phosphoric Amide Herbicide APM on the Structure and Protein Composition of Chromosome in <i>Triticum durum</i>	Peng Y, et al.	2003	10.1626/pps .6.134
		Susceptibility to Coolness at the Young Microspore Stage under High Nitrogen Supply in Rice (<i>Oryza Sativa</i> L.). Proteome Analysis of Mature Anthers	Hayashi T, et al.	2006	10.1626/pps .9.212
ELISA (1)		Pharmacologically Active Saikosaponin in Bupleurum falcatum Detected by Competitive ELISA and Eastern Blotting Using Monoclonal Antibodies	Shon TK, et al.	2008	10.1626/pps .11.192
Expression (2)	Chemically inducible expression (1)	A Chemically Inducible Gene Expression System and Its Application to Inducible Gene Suppression in Rice	Hirose T, et al.	2012	10.1626/pps .15.73
	Transient expression (1)	Transient Expression of Green Fluorescent Protein in Rice Calluses: Optimization of Parameters for Helios Gene Gun Device	Carsono N, et al.	2008	10.1626/pps .11.88
Extrapolation (1)	Adjusted linear extrapolation (1)	Extracting Red Edge Position Parameters from Ground- and Space-Based Hyperspectral Data for Estimation of Canopy Leaf Nitrogen Concentration in Rice	Tian Y, et al.	2011	10.1626/pps .14.270
Fluorescence (23)	Chlorophyll fluorescence (19)	Concurrent Monitoring of Oxygen Evolution and Chlorophyll Fluorescence in Mungbean Leaves with a Liquid-Phase Oxygen Electrode	Yoshimura Y, et al.	2000	10.1626/pps .3.229
		Growth, Yield and Photosynthetic Activity of <i>Vigna radiata</i> L. Grown at Different Temperature and Light Levels	Karim MA, et al.	2003	10.1626/pps .6.43
		Effects of Growth under Elevated CO ₂ on the Capacity of Photosynthesis in Two Radish Cultivars Differing in Capacity of Storage Root	Usuda H.	2004	10.1626/pps .7.377
		Adaptive Responses of Soybean and Cotton to Water Stress. II. Changes in CO ₂ Assimilation Rate, Chlorophyll Fluorescence and Photochemical Reflectance Index in Relation to Leaf Temperature	Inamullah et al.	2005	10.1626/pps .8.131
		Salinity Stress Induces Granal Development in Bundle Sheath Chloroplasts of Maize, an NADP-Malic Enzyme-Type C ₄ Plant	Hasan R, et al.	2006	10.1626/pps .9.256
		Photosynthetic Recovery of a Perennial Grass <i>Leymus chinensis</i> after Different Periods of Soil Drought	Xu ZZ, et al.	2007	10.1626/pps .10.277
		Correlation between Chloroplast Ultrastructure and Chlorophyll Fluorescence Characteristics in the Leaves of Rice (<i>Oryza sativa</i> L.) Grown under Salinity	Yamane K, et al.	2008	10.1626/pps .11.139
		Gene Expression and Accumulation of Rubisco in Bundle Sheath and Mesophyll Cells during Leaf Development and Senescence in Rice, a C ₃ Plant	Tsutsumi K, et al.	2008	10.1626/pps .11.336
		Correlation of Chlorophyll Meter Readings with Gas exchange and Chlorophyll Fluorescence in Flag Leaves of Rice (<i>Oryza sativa</i> L.) Plants	Kumagai E, et al.	2009	10.1626/pps .12.50
		Characteristics of Gas Exchange and Chlorophyll Fluorescence during Senescence of Flag Leaf in Different Rice (<i>Oryza sativa</i> L.) Cultivars Grown under Nitrogen-Deficient Condition	Kumagai E, et al.	2009	10.1626/pps .12.285
		Comparison of Susceptibility to Photoinhibition and Energy Partitioning of Absorbed Light in Photosystem II in Flag Leaves of Two Rice (<i>Oryza sativa</i> L.) Cultivars that Differ in Their Responses to Nitrogen-Deficiency	Kumagai E, et al.	2010	10.1626/pps .13.11
		Effects of Water Stress on Leaf Temperature and Chlorophyll Fluorescence Parameters in Cotton and Peanut	Shahenshah et al.	2010	10.1626/pps .13.269
		Leaf Growth, Gas Exchange and Chlorophyll Fluorescence Parameters in Response to Different Water Deficits in Wheat Cultivars	Wu X, et al.	2011	10.1626/pps .14.254

Fluorescence (continued)	Chlorophyll fluorescence (continued)	Physio-Biochemical Responses of Oil Palm (<i>Elaeis guineensis</i> Jacq.) Seedlings to Mannitol- and Polyethylene Glycol-Induced Iso-Osmotic Stresses	Cha-um S, et al.	2012	10.1626/pps .15.65
		Inclination Angle Affects Ozone Injury in the Flag Leaf of Rice	Kobayakawa H, et al.	2013	10.1626/pps .16.24
		The Long-Term Changes in Midday Photoinhibition in Rice (<i>Oryza sativa</i> L.) Growing under Fluctuating Soil Water Conditions	Iseki K, et al.	2013	10.1626/pps .16.287
		Leaf Photosynthesis and Its Genetic Improvement from the Perspective of Energy Flow and CO ₂ Diffusion	Tanaka Y, et al.	2014	10.1626/pps .17.111
		Relation between O ₃ -Inhibition of Photosynthesis and Ethylene in Paddy Rice Grown under Different CO ₂ Concentrations	Kobayakawa H, et al.	2015	10.1626/pps .18.22
		Exogenous ascorbic acid scarcely ameliorates inhibition of photosynthesis in rice leaves by O ₃	Kobayakawa H, et al.	2017	10.1080/1343943X.2016.1232149
	Green fluorescent protein (1)	A Chemically Inducible Gene Expression System and Its Application to Inducible Gene Suppression in Rice	Hirose T, et al.	2012	10.1626/pps .15.73
Immunofluorescence microscopy (1)	Analysis of Storage Protein Distribution in Rice Grain of Seed-Protein Mutant Cultivars by Immunofluorescence Microscopy	Ohdaira Y, et al.	2011	10.1626/pps .14.219	
Immunofluorescent labeling (1)	Tissue Localization of the Glycine Betaine Biosynthetic Enzymes in Barley Leaves	Mitsuya S, et al.	2013	10.1626/pps .16.117	
Synthetic green fluorescent protein (1)	Transient Expression of Green Fluorescent Protein in Rice Calluses: Optimization of Parameters for Helios Gene Gun Device	Carsono N, et al.	2008	10.1626/pps .11.88	
Gel (4)	Agar gel (1)	A Simple Method for Quantitative Estimation of Rhizosphere pH along Root Axes through Visualization	Rao TP, et al.	2000	10.1626/pps .3.94
	Gelling agents (1)	Effects of Different Types and Concentrations of Gelling Agents on the Physical and Chemical Properties of Media and the Growth of Banana (<i>Musa</i> spp.) <i>in Vitro</i>	Buah JN, et al.	1999	10.1626/pps .2.138
	Two-dimensional polyacrylamide gel electrophoresis (2D SDS-PAGE) (2)	Effect of Phosphoric Amide Herbicide APM on the Structure and Protein Composition of Chromosome in <i>Triticum durum</i>	Peng Y, et al.	2003	10.1626/pps .6.134
		Susceptibility to Coolness at the Young Microspore Stage under High Nitrogen Supply in Rice (<i>Oryza Sativa</i> L.). Proteome Analysis of Mature Anthers	Hayashi T, et al.	2006	10.1626/pps .9.212
Genetic (5)	Genetic transformation (1)	Genetic Transformation of a High Molecular Weight Glutenin (<i>Glu-1Dx5</i>) to Rice cv. Fatmawati	Wada Y, et al.	2009	10.1626/pps .12.341
	Gene cloning (1)	Analysis of Heat-Stress Responsive Genes in <i>Aneurolepidium chinense</i> Leaves by Differential Display	Shi W, et al.	2002	10.1626/pps .5.229
	Gene manipulation (1)	Overexpression of C ₄ Phosphoenolpyruvate Carboxylase Increased Carbon Isotope Discrimination in Transgenic Rice Plants	Agarie S, et al.	2001	10.1626/pps .4.311
	Gene suppression (1)	A Chemically Inducible Gene Expression System and Its Application to Inducible Gene Suppression in Rice	Hirose T, et al.	2012	10.1626/pps .15.73
	Cloning and genetic engineering (1)	Oil Palm: Achievements and Potential	Wahid MB, et al.	2005	10.1626/pps .8.288
Heat balance method (1)		Studies on Mechanisms of Dehydration Postponement in Cassava Leaves under Short-term Soil Water Deficits	Itani J, et al.	1999	10.1626/pps .2.184
Histochemistry (1)		Histochemistry and Cell Wall Specialization of Oil Cells related to the Essential Oil Accumulation in the Bark of <i>Cinnamomum cassia</i> Presl. (Lauraceae)	Geng SL, et al.	2012	10.1626/pps .15.1
Histology (1)		Effect of Calcium Concentration on the Shape of Sweet Potato (<i>Ipomoea batatas</i> Lam.) Tuberous Root	Sulaiman H, et al.	2004	10.1626/pps .7.191
Hydrogen peroxide treatment (1)		Promotion of Seedling Growth of Seeds of Rice (<i>Oryza sativa</i> L. cv. Hitomebore) by Treatment with H ₂ O ₂ before Sowing	Sasaki K, et al.	2005	10.1626/pps .8.509
Hyperhydricity (1)		Effect of Urea-Type Cytokinins on the Adventitious Shoots Regeneration from Cotyledonary Node Explant in the Common Ice Plant, <i>Mesembryanthemum crystallinum</i>	Sunagawa H, et al.	2007	10.1626/pps .10.47
Hypoxic pretreatment (1)		Hypoxic Induction of Anoxia Tolerance in Rice Coleoptiles	Kato-Noguchi H.	2002	10.1626/pps .5.211
Immunofluorescence (3)	Immunofluorescence microscopy (1)	Analysis of Storage Protein Distribution in Rice Grain of Seed-Protein Mutant Cultivars by Immunofluorescence Microscopy	Ohdaira Y, et al.	2011	10.1626/pps .14.219
	Immunofluorescent labeling (1)	Tissue Localization of the Glycine Betaine Biosynthetic Enzymes in Barley Leaves	Mitsuya S, et al.	2013	10.1626/pps .16.117
	Immunogold electron microscopy (1)	Structural and Immunocytochemical Characterization of the Synthesis and Accumulation of Starch in Sweet Potato (<i>Ipomoea batatas</i> Lam.) Tuberous Root	Kawasaki M, et al.	2002	10.1626/pps .5.152

<i>In situ</i> (3)	<i>In situ</i> digestibility (1)	Feeding Value and <i>In situ</i> Digestibility of Edible Canna for Silage	Jun H, et al.	2006	10.1626/pps .9.408
	<i>In situ</i> hybridization (2)	Expression of Photosynthesis-Related Genes during the Leaf Development of a C ₃ Plant Rice as Visualized by <i>In Situ</i> Hybridization	Tsutsumi K, et al.	2006	10.1626/pps .9.232
		Gene Expression and Accumulation of Rubisco in Bundle Sheath and Mesophyll Cells during Leaf Development and Senescence in Rice, a C ₃ Plant	Tsutsumi K, et al.	2008	10.1626/pps .11.336
<i>In vitro</i> (5)	<i>In vitro</i> (3)	Nursery Growth of Banana (<i>Musa</i> spp.) Plantlets Rooted on Auxin-free and Auxin-supplemented Media	Buah JN, et al.	1998	10.1626/pps .1.207
		Effects of Different Types and Concentrations of Gelling Agents on the Physical and Chemical Properties of Media and the Growth of Banana (<i>Musa</i> spp.) <i>In Vitro</i>	Buah JN, et al.	1999	10.1626/pps .2.138
		Effects of Various Carbon Sources and Their Combinations on <i>in vitro</i> Growth and Photosynthesis of Banana Plantlets	Buah JN, et al.	2000	10.1626/pps .3.392
	<i>In vitro</i> plants (1)	Field Performance of <i>In vitro</i> -propagated and Sucker-derived Plants of Banana (<i>Musa</i> spp.)	Buah JN, et al.	2000	10.1626/pps .3.124
	<i>In vitro</i> tubers (1)	Effect of Potato Microtuber Size on the Growth and Yield Performance of Field Grown Plants	Kawakami J, et al.	2012	10.1626/pps .15.144
Incubation (1)	Leaf incubation (1)	Stay-Green Trait Assessment using the Leaf Incubation Method to Examine the Maintenance of Assimilation Rates under High Temperature Conditions during the Grain-Filling Period in Rice	Kobata T, et al.	2015	10.1626/pps .18.254
Information and communication technologies (ICTs) (1)		Knowledge Sharing and Distance Learning for Sustainable Agriculture in the Asia-Pacific Region: the Role of the Internet	Abdon BR, et al.	2005	10.1626/pps .8.298
Isotope (9)	Carbon isotope discrimination (2)	Overexpression of C ₄ Phosphoenolpyruvate Carboxylase Increased Carbon Isotope Discrimination in Transgenic Rice Plants	Agarie S, et al.	2001	10.1626/pps .4.311
		Mapping of QTLs Controlling Carbon Isotope Discrimination in the Photosynthetic System using Recombinant Inbred Lines Derived from a Cross between Two Different Rice (<i>Oryza sativa</i> L.) Cultivars	Takai T, et al.	2006	10.1626/pps .9.271
	Hydrogen stable isotope (1)	Productivity and Water Source of Intercropped Wheat and Rice in a Direct-sown Sequential Cropping System: The Effects of No-tillage and Drought	Iijima M, et al.	2005	10.1626/pps .8.368
	Stable isotope (6)	Mixed Planting with Legumes Modified the Water Source and Water Use of Pearl Millet	Zegada-Lizarazu W, et al.	2005	10.1626/pps .8.433
		Deep Root Water Uptake Ability and Water Use Efficiency of Pearl Millet in Comparison to Other Millet Species	Zegada-Lizarazu W, et al.	2005	10.1626/pps .8.454
		Water Competition of Intercropped Pearl Millet with Cowpea under Drought and Soil Compaction Stresses	Zegada-Lizarazu W, et al.	2006	10.1626/pps .9.123
		Pearl Millet Developed Deep Roots and Changed Water Sources by Competition with Intercropped Cowpea in the Semiarid Environment of Northern Namibia	Zegada-Lizarazu W, et al.	2006	10.1626/pps .9.355
		Water Acquisition from the Seasonal Wetland and Root Development of Pearl Millet Intercropped with Cowpea in a Flooding Ecosystem of Northern Namibia	Zegada-Lizarazu W, et al.	2007	10.1626/pps .10.20
	No-Tillage Enhanced the Dependence on Surface Irrigation Water in Wheat and Soybean	Iijima M, et al.	2007	10.1626/pps .10.182	
Leaf-cutting method (1)		Growth of Roots Emerged from Excised Phytomers of Three Gramineous Species under a Low Osmotic Potential	Matsuura A, et al.	2000	10.1626/pps .3.55
Marker (10)	Marker-assisted breeding (2)	Recent Advances in Marker-Assisted Selection for Drought Tolerance in Pearl Millet	Serraj R, et al.	2005	10.1626/pps .8.334
		Breeding efforts to mitigate damage by heat stress to spikelet sterility and grain quality	Ishimaru T, et al.	2016	10.1080/1343943X.2015.1128113
	Marker-assisted selection (1)	Molecular Breeding for Rainfed Lowland Rice in the Mekong Region	Toojinda T, et al.	2005	10.1626/pps .8.330
	Inter-simple sequence repeats (ISSRs) marker (1)	Genetic Diversity among Wild Resources of the Genus <i>Boehmeria</i> Jacq. from West China Determined Using Inter-simple Sequence Repeat and Rapid Amplification of Polymorphic DNA Markers	Liu LJ, et al.	2009	10.1626/pps .12.88
	Molecular marker (2)	Molecular Dissection of the Relationships among Tiller Number, Plant Height and Heading Date in Rice	Cui K, et al.	2004	10.1626/pps .7.309
Characterization of Aroma and Agronomic Traits in Afghan Native Rice Cultivars		Sarhadi WA, et al.	2009	10.1626/pps .12.63	

Marker (continued)	Random Amplified Polymorphic DNA (RAPD) marker (2)	Identification of Random Amplified Polymorphic DNA and Simple Sequence Repeat Markers Linked to Powdery Mildew Resistance in Common Wheat Cultivar Brock	Wang Z, et al.	2004	10.1626/pps.7.319
		Genetic Diversity among Wild Resources of the Genus <i>Boehmeria</i> Jacq. from West China Determined Using Inter-simple Sequence Repeat and Rapid Amplification of Polymorphic DNA Markers	Liu LJ, et al.	2009	10.1626/pps.12.88
	Simple sequence repeats (SSRs) marker (2)	Identification of Random Amplified Polymorphic DNA and Simple Sequence Repeat Markers Linked to Powdery Mildew Resistance in Common Wheat Cultivar Brock	Wang Z, et al.	2004	10.1626/pps.7.319
		Validation of QTLs for Eating Quality of <i>Japonica</i> Rice 'Koshihikari' Using Backcross Inbred Lines	Wada T, et al.	2013	10.1626/pps.16.131
Manipulator technique (1)		Modeling of a Soybean Canopy Structure by the Approximation of a Leaflet into an Ellipsoid for Estimating Direct Solar Radiation Environment	Hirota O, et al.	2000	10.1626/pps.3.67
Measurement method (1)		A Multichannel Automated Chamber System for Continuous Measurement of Carbon Exchange Rate of Rice Canopy	Katsura K, et al.	2006	10.1626/pps.9.152
Micropropagation (1)		Callus Induction and Adventitious Shoot Regeneration from Petiole of <i>Erigeron breviscapus</i>	Zhang L, et al.	2007	10.1626/pps.10.343
Minirhizotron (2)		Growth of Rice (<i>Oryza sativa</i> L.) Cultivars under Upland Conditions with Different Levels of Water Supply. 3. Root System Development, Soil Moisture Change and Plant Water Status	Kato Y, et al.	2007	10.1626/pps.10.3
		Root Growth of Two Soybean [<i>Glycine max</i> (L.) Merr.] Cultivars Grown under Different Groundwater Level Conditions	Matsuo N, et al.	2013	10.1626/pps.16.374
Molecular (3)	Molecular breeding (1)	Molecular Breeding for Rainfed Lowland Rice in the Mekong Region	Toojinda T, et al.	2005	10.1626/pps.8.330
	Molecular marker (2)	Molecular Dissection of the Relationships among Tiller Number, Plant Height and Heading Date in Rice	Cui K, et al.	2004	10.1626/pps.7.309
		Characterization of Aroma and Agronomic Traits in Afghan Native Rice Cultivars	Sarhadi WA, et al.	2009	10.1626/pps.12.63
Monitoring (1)		Synergy of Remote Sensing and Modeling for Estimating Ecophysiological Processes in Plant Production	Inoue Y.	2003	10.1626/pps.6.3
Monoclonal antibody (1)		Pharmacologically Active Saikosaponin in <i>Bupleurum falcatum</i> Detected by Competitive ELISA and Eastern Blotting Using Monoclonal Antibodies	Shon TK, et al.	2008	10.1626/pps.11.192
Monosomic addition line (MAL) (1)		Production of <i>Raphanus sativus</i> (C ₃)- <i>Moricandia arvensis</i> (C ₃ -C ₄ intermediate) Monosomic and Disomic Addition Lines with Each Parental Cytoplasmic Background and their Photorespiratory Characteristics	Bang SW, et al.	2009	10.1626/pps.12.70
Medium (2)	MS medium (1)	Effects of Physiological Status of Parent Plants and Culture Medium Composition on the Anther Culture of Sorghum	Can ND, et al.	1998	10.1626/pps.1.211
	Regeneration medium (1)	Effects of Physiological Status of Parent Plants and Culture Medium Composition on the Anther Culture of Sorghum	Can ND, et al.	1998	10.1626/pps.1.211
Partitioning (4)	Partitioning (3)	Correlation of Nitrogen Concentration with Dry-Matter Partitioning to Spikelets and Total Husk Volume on the Panicle in Japonica Rice	Matsui T, et al.	2002	10.1626/pps.5.198
		Effect of CO ₂ Enrichment on the Translocation and Partitioning of Carbon at the Early Grain-filling Stage in Rice (<i>Oryza sativa</i> L.)	Sasaki H, et al.	2005	10.1626/pps.8.8
		Influence of High Temperature on Morphological Characters, Biomass Allocation, and Yield Components in Snap Bean (<i>Phaseolus vulgaris</i> L.)	Omae H, et al.	2006	10.1626/pps.9.200
	Partitioning fraction (1)	Simulating Organ Growth in Wheat Based on the Organ-Weight Fraction Concept	Cao X, et al.	2002	10.1626/pps.5.248
Periodic acid-Schiff (PAS) reaction (1)		Optical Microscopy and Scanning Electron Microscopy on the Surface of Rice Callus after Treatment with Cell Wall Degrading Enzymes	Sato T, et al.	2001	10.1626/pps.4.145
pH mapping (1)		A Simple Method for Quantitative Estimation of Rhizosphere pH along Root Axes through Visualization	Rao TP, et al.	2000	10.1626/pps.3.94
Radionuclide (1)		Effect of soil exchangeable potassium content on cesium absorption and partitioning in buckwheat grown in a radioactive cesium-contaminated field	Kubo K, et al.	2017	10.1080/1343943X.2017.1355737
Random Amplified Polymorphic DNA (RAPD) (5)	Random Amplified Polymorphic DNA (RAPD) (3)	Confirmation of the Productivity of the Stored Seeds of Wheat and Two-Rowed Barley	Matsue Y, et al.	2002	10.1626/pps.5.187
		Identification of RAPD Markers and Development of SCAR Markers Linked to a Powdery Mildew Resistance Gene, and their Location on Chromosome in Wheat Cultivar Brock	Wang Z, et al.	2005	10.1626/pps.8.578
		Genetic Variation of <i>Zoysia</i> as Revealed by Random Amplified Polymorphic DNA (RAPD) and Isozyme Pattern	Weng JH, et al.	2007	10.1626/pps.10.80

Random Amplified Polymorphic DNA (RAPD) (continued)	Random Amplified Polymorphic DNA (RAPD) marker (2)	Identification of Random Amplified Polymorphic DNA and Simple Sequence Repeat Markers Linked to Powdery Mildew Resistance in Common Wheat Cultivar Brock	Wang Z, et al.	2004	10.1626/pps.7.319
		Genetic Diversity among Wild Resources of the Genus <i>Boehmeria</i> Jacq. from West China Determined Using Inter-simple Sequence Repeat and Rapid Amplification of Polymorphic DNA Markers	Liu LJ, et al.	2009	10.1626/pps.12.88
Reflectance (8)	Reflectance (4)	A Portable Spectropolarimeter for Field Crop Canopies: Distinguishing species and cultivars of fully developed canopies by polarized light	Shibayama M, et al.	2002	10.1626/pps.5.311
		Seasonal Profiles of Polarized Reflectance and Leaf Inclination Distribution of Wheat Canopies	Shibayama M.	2004	10.1626/pps.7.397
		Continuous Monitoring of Visible and Near-Infrared Band Reflectance from a Rice Paddy for Determining Nitrogen Uptake Using Digital Cameras	Shibayama M, et al.	2009	10.1626/pps.12.293
		Daytime and Nighttime Field Spectral Imagery of Ripening Paddy Rice for Determining Leaf Greenness and 1000-Grain Weight	Shibayama M, et al.	2009	10.1626/pps.12.307
	Reflectance factor (4)	Estimating Paddy Rice Leaf Area Index with Fixed Point Continuous Observation of Near Infrared Reflectance Using a Calibrated Digital Camera	Shibayama M, et al.	2011	10.1626/pps.14.30
		Regression-Based Models to Predict Rice Leaf Area Index Using Biennial Fixed Point Continuous Observations of Near Infrared Digital Images	Shibayama M, et al.	2011	10.1626/pps.14.365
		Multi-Band Spectrum Camera (MBSC) for Automatic Fixed-Point Reflectance Image Collection in a Crop Field	Shibayama M, et al.	2011	10.1626/pps.14.391
		Estimating Rice Leaf Greenness (SPAD) Using Fixed-Point Continuous Observations of Visible Red and Near Infrared Narrow-Band Digital Images	Shibayama M, et al.	2012	10.1626/pps.15.293
Remote sensing (8)	Remote sensing (6)	Analysis of Spectral Measurements in Paddy Field for Predicting Rice Growth and Yield Based on a Simple Crop Simulation Model	Inoue Y, et al.	1998	10.1626/pps.1.269
		A Portable Spectropolarimeter for Field Crop Canopies: Distinguishing species and cultivars of fully developed canopies by polarized light	Shibayama M, et al.	2002	10.1626/pps.5.311
		Synergy of Remote Sensing and Modeling for Estimating Ecophysiological Processes in Plant Production	Inoue Y.	2003	10.1626/pps.6.3
		Estimating the Mean Leaf Inclination Angle of Wheat Canopies Using Reflected Polarized Light	Shibayama M, et al.	2007	10.1626/pps.10.329
		Testing Polarization Measurements with Adjusted View Zenith Angles in Varying Illumination Conditions for Detecting Leaf Orientation of Wheat Canopy	Shibayama M, et al.	2008	10.1626/pps.11.498
		Assimilating Remotely Sensed Information with the WheatGrow Model Based on the Ensemble Square Root Filter for Improving Regional Wheat Yield Forecasts	Huang Y, et al.	2013	10.1626/pps.16.352
	Ground-based remote sensing (1)	Extracting Red Edge Position Parameters from Ground- and Space-Based Hyperspectral Data for Estimation of Canopy Leaf Nitrogen Concentration in Rice	Tian Y, et al.	2011	10.1626/pps.14.270
Space-borne remote sensing (1)	Extracting Red Edge Position Parameters from Ground- and Space-Based Hyperspectral Data for Estimation of Canopy Leaf Nitrogen Concentration in Rice	Tian Y, et al.	2011	10.1626/pps.14.270	
Sensory test (2)		Sensory Test for Aroma and Quantitative Analysis of 2-Acetyl-1-Pyrroline in Asian Aromatic Rice Varieties	Hien NL, et al.	2006	10.1626/pps.9.294
		Characterization of Aroma and Agronomic Traits in Afghan Native Rice Cultivars	Sarhadi WA, et al.	2009	10.1626/pps.12.63
Sequence (7)	Sequence characterized amplified region (SCAR) (1)	Identification of RAPD Markers and Development of SCAR Markers Linked to a Powdery Mildew Resistance Gene, and their Location on Chromosome in Wheat Cultivar Brock	Wang Z, et al.	2005	10.1626/pps.8.578
	Inter-simple sequence repeats (ISSRs) marker (1)	Genetic Diversity among Wild Resources of the Genus <i>Boehmeria</i> Jacq. from West China Determined Using Inter-simple Sequence Repeat and Rapid Amplification of Polymorphic DNA Markers	Liu LJ, et al.	2009	10.1626/pps.12.88
	Simple sequence repeats (SSRs) (3)	Genetic Diversity among Japanese Cultivated Sorghum Assessed with Simple Sequence Repeats Markers	Anas, et al.	2004	10.1626/pps.7.217
		Sorghum Diversity Evaluated by Simple Sequence Repeat (SSR) Markers and Phenotypic Performance	Anas, et al.	2004	10.1626/pps.7.301
		Genetic Diversity of Cambodian Rice Cultivars	Ly T, et al.	2008	10.1626/pps.11.366

Sequence (continued)	Simple sequence repeats (SSRs) marker (2)	Identification of Random Amplified Polymorphic DNA and Simple Sequence Repeat Markers Linked to Powdery Mildew Resistance in Common Wheat Cultivar Brock	Wang Z, et al.	2004	10.1626/pps.7.319
		Validation of QTLs for Eating Quality of Japonica Rice 'Koshihikari' Using Backcross Inbred Lines	Wada T, et al.	2013	10.1626/pps.16.131
Simulation (2)	Dynamic simulation (1)	Simulating Organ Growth in Wheat Based on the Organ-Weight Fraction Concept	Cao X, et al.	2002	10.1626/pps.5.248
	Growth simulation (1)	Analysis of Spectral Measurements in Paddy Field for Predicting Rice Growth and Yield Based on a Simple Crop Simulation Model	Inoue Y, et al.	1998	10.1626/pps.1.269
Staining (2)	Hematoxylin staining (1)	Screening of Al-Tolerant Sorghum by Hematoxylin Staining and Growth Response	Anas A, et al.	2000	10.1626/pps.3.246
	Hematoxylin staining method (1)	Heritability and Genetic Correlation of Al-Tolerance with Several Agronomic Characters in Sorghum Assessed by Hematoxylin Staining	Anas, et al.	2004	10.1626/pps.7.280
Spectral measurement (2)		Analysis of Spectral Measurements in Paddy Field for Predicting Rice Growth and Yield Based on a Simple Crop Simulation Model	Inoue Y, et al.	1998	10.1626/pps.1.269
		Statistical Models for Prediction of Dry Weight and Nitrogen Accumulation Based on Visible and Near-Infrared Hyper-Spectral Reflectance of Rice Canopies	Takahashi W, et al.	2000	10.1626/pps.3.377
Strain gauge method (2)		Pod Dehiscence in Soybean: Assessing Methods and Varietal Difference	Romkaew J, et al.	2006	10.1626/pps.9.373
		Pod Dehiscence in Relation to Pod Position and Moisture Content in Soybean	Romkaew J, et al.	2007	10.1626/pps.10.292
Suppression subtractive hybridization (SSH) (1)		Suppression subtractive hybridization library construction and identification of epidermal bladder cell related genes in the common ice plant, <i>Mesembryanthemum crystallinum</i> L.	Roern S, et al.	2016	10.1080/1343943X.2016.1221320
Thin layer chromatography (TLC) (2)		Correlation between Growth Inhibitory Exhibition and Suspected Allelochemicals (Phenolic Compounds) in the Extract of Alfalfa (<i>Medicago sativa</i> L.)	Xuan TD, et al.	2003	10.1626/pps.6.165
		Development of a High-Performance Liquid Chromatography Method to Determine the Fagopyrin Content of Tartary Buckwheat (<i>Fagopyrum tartaricum</i> Gaertn.) and Common Buckwheat (<i>F. esculentum</i> Moench)	Eguchi K, et al.	2009	10.1626/pps.12.475
Transactivation (1)		Activation of ADP-Glucose Pyrophosphorylase Gene Promoters by a WRKY Transcription Factor, AtWRKY20, in <i>Arabidopsis thaliana</i> L. and Sweet Potato (<i>Ipomoea batatas</i> Lam.)	Nagata T, et al.	2012	10.1626/pps.15.10
Transcript abundance (1)		Regulatory Properties of Phosphoenolpyruvate Carboxylase in Crassulacean Acid Metabolism Plants: Diurnal Changes in Phosphorylation State and Regulation of Gene Expression	Theng V, et al.	2007	10.1626/pps.10.171
Transformation (1)		Aluminium Borate Whisker-Mediated DNA Delivery into Callus of Rice and Production of Transgenic Rice Plant	Takahashi W, et al.	2000	10.1626/pps.3.219
Transgenic (8)	Transgenic (1)	Overexpression of a Maize <i>SPS</i> Gene Improves Yield Characters of Potato under Field Conditions	Ishimaru K, et al.	2008	10.1626/pps.11.104
	Transgenic plant (7)	Characterization of a Maize Sucrose-phosphate Synthase Protein and Its Effect on Carbon Partitioning in Transgenic Rice Plants	Ono K, et al.	1999	10.1626/pps.2.172
		Aluminium Borate Whisker-Mediated DNA Delivery into Callus of Rice and Production of Transgenic Rice Plant	Takahashi W, et al.	2000	10.1626/pps.3.219
		Changes in Photosynthetic Activity and Export of Carbon by Overexpressing a Maize Sucrose-Phosphate Synthase Gene under Elevated CO ₂ in Transgenic Rice	Ono K, et al.	2003	10.1626/pps.6.281
		Improvement of the Aluminum Borate Whisker-Mediated Method of DNA Delivery into Rice Callus	Mizuno K, et al.	2004	10.1626/pps.7.45
		A Chemically Inducible Gene Expression System and Its Application to Inducible Gene Suppression in Rice	Hirose T, et al.	2012	10.1626/pps.15.73
		Suppression subtractive hybridization library construction and identification of epidermal bladder cell related genes in the common ice plant, <i>Mesembryanthemum crystallinum</i> L.	Roern S, et al.	2016	10.1080/1343943X.2016.1221320
		MYB and HD-ZIP IV homologs related to trichome formation are involved in epidermal bladder cell development in the halophyte <i>Mesembryanthemum crystallinum</i> L.	Roern S, et al.	2017	10.1080/1343943X.2017.1279528