

Jonaliza Lanceras Siangliw

Innovative Plant Biotechnology and Precision Agriculture Research Team,
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Education

B.S. in Biology, Faculty of Arts and Science, University of the Philippines, 1994

Field of Concentrations: Microbial Ecology, Antibiotic Extraction

M.S. in Tropical Agriculture, Department of Tropical Agriculture, Graduate School, Kasetsart University, 2000

Field of Concentrations: Rice Quality, QTL Mapping

Ph.D. in Tropical Agriculture, Department of Tropical Agriculture, Graduate School, Kasetsart University, 2007

Field of Concentrations: QTL Mapping, Molecular Breeding, Drought Resistance

Research Experience

Researcher, February 2011 to present

Rice Gene Discovery Laboratory (BIOTEC), Kasetsart University, Kamphangsae, Nakhon Pathom

- **CoPI**: The Community of Practices "Strengthening rice breeding Program using Genotyping Building Strategy and Improving Phenotyping Capacity for Biotic and Abiotic Stresses in the Mekong Region" from Generation Challenge Program (Phase III) (GCP)
- **CoPI**: Strengthening human resource in Mekong region: Community of practices for rice breeding with emphasis on marker assisted selection from National Science and Technology Development Agency (Phase III) (NSTDA)
- **CoPI**: Comparison of system of rice intensification (SRI) and development of its normalized technologies in Southeast Asia from the view point of agricultural engineering (in collaboration with Meiji University, Japan)
- **PI**: Phenotypic characterization of drought avoidance and drought tolerance traits in selected KDML105 chromosome segment substitution lines (CSSL) harboring full QTL segment under greenhouse experiments (NSTDA)
- **PI**: Regional Hub of Integrated Breeding Platform Phase I (IBP and NSTDA)
- **PI**: Managing rice data through Breeding Management System (IBP and NSTDA)
- **PI**: Regional Hub of Integrated Breeding Platform Phase II (IBP and NSTDA)
- **Investigator**: Genotyping rice chromosome segment substitution lines to facilitate gene discovery for root characteristics (NSTDA)
- **Investigator**: Development of a high-throughput genotyping platform for rice breeding programs, discovery of QTL by GWAS and determining genetic values of improved rice varieties/lines derived from Thai rice breeding program (NSTDA)
- **CoPI**: Rhizo-Rice: a novel ideotype for deeper roots and improved drought tolerance (NEWTON FUND/NSTDA)
- **PI**: Implementation of BMS/VSN software and their peripheral tools to digitalize plant breeding focusing on three major field crops in Thailand (NSTDA)
- **PI**: Strengthening rice breeding programs in Laos and Thailand and developing climate-resilient rice varieties (SEA-EU Joint Funding Scheme and NSTDA)
- **PI**: Breeding by design to improve rainfed rice varieties for resistance/tolerance to biotic and abiotic stresses using marker assisted selection approach (ISA (NSTDA))
- **CoPI**: Investigating the potential adaptive responses of the Thai Rice Resource to biotic and abiotic stresses under future climate change conditions (Ecology-flexible rice)
- **Investigator**: The innovation of Agricultural technology from research to the farmer for community sustainable development: Glutinous rice variety 'Hom Naga' and non-glutinous rice variety 'Hom Jinda'

Research Assistant, November 2006 to January 2011

Rice Gene Discovery Unit (BIOTEC), Kasetsart University, Kamphangsaeen, Nakhon Pathom

- Breeding rice for rainfed lowland: A collaborative project between (RGDU) BIOTEC and Rice Department Phase I
- Breeding rice for rainfed lowland: A collaborative project between (RGDU) BIOTEC and Rice Department Phase II
- The Community of Practice: Concept Applied to Rice Production in Mekong Region (Phase II)
- Connecting Performance under Drought with Genotypes through Phenotype Association
- Human Resource Development: Assessment of blast, bacterial blight and brown planthopper: Collection, General Classification, Screening Methodology and Practice
- Human Resource Development: Assessment of blast, bacterial blight and brown planthopper: Collection, General Classification, Screening Methodology and Practice

Research Aid, October 2000 to October 2006

Rice Gene Discovery Unit (BIOTEC), Kasetsart University, Kamphangsaeen, Nakhon Pathom

- Application of Molecular Breeding in Improving Drought Tolerance in Rainfed Lowland Rice
- Improving Drought Resistance in Rainfed Lowland in the Mekong Region
- Molecular Breeding for Drought Tolerance
- Developing Single QTL Near Isogenic Lines of KDML105 for Drought Tolerance
- Curation of QTL for Drought Tolerance
- Long term practical training on molecular breeding in rice for Mekong region (Phase I) (Funded by Rockefeller Foundation, BIOTEC, KU)
- Training on curation of phenotypic data generated from drought experiments since 1996, 1997, 2000, 2001 and 2002 to Gramene Database at Cornell University under the supervision of Dr. Susan McCouch

Laboratory Aide, Jan. 1995 – Oct. 1997

International Rice Research Institute (IRRI), Los Banos, Philippines

RESEARCH AREAS OF INTEREST

- QTL Mapping and Molecular Breeding (MAS)
- Breeding rice for drought resistance and aerobic rice under rainfed lowland environment
- Rice root physiology

PUBLICATIONS

- Toojinda T, Tragoonrun S, Vanavichit A, **Siangliw JL**, Pa-In N, Jantaboon J, Siangliw M and Fukai S. 2005. Molecular breeding for rainfed lowland rice in the Mekong Region. *Plant Production Science* 8(3): 330-333.
- Wongprasom C, Sirithunya P, Vanavichit A, Pantuwan G, Jongdee B, Sidhiwong N, **Siangliw JL** and Toojinda T. 2010. Two introgressed quantitative trait loci confer a broad-spectrum resistance to blast disease in the genetic background of the cultivar RD6, a Thai glutinous jasmine rice. *Field Crops Research* 119 (2-3): 245-251.
- Rathmuny Then, **Siangliw JL**, Vanavichit A, Kasemsap P, Fukai S and Toojinda T. 2011. Effects of Drought Tolerant on Flowering Traits, Panicle Exsertion, Spikelet Sterility and Grain Yield under Rainfed Lowland Conditions. *Kasetsart Journal* (accepted for publication).
- Kanjoo V, S Jearakongman, K Punyawaew, **JL Siangliw**, M Siangliw, A Vanavichit and T Toojinda. 2012. Co-location of quantitative trait loci for drought and salinity tolerance in rice. *Thai J of Genetics*. 4(2): 126-138.
- Kanjoo V, K Punyawaew, **JL Siangliw**, S Jearakongman, A Vanavichit and T Toojinda. 2012. Evaluation of agronomic traits in chromosome segment substitution lines of KDML105 containing drought tolerance QTL under drought stress. *Rice Science*. 19(2): 117-124.
- Win KM, S Korinsak, J Jantaboon, M Siangliw, **JL Siangliw**, P Sirithunya, A Vanavichit, G Pantuwan, B Jongdee, N Sidhiwong and T Toojinda. 2012. Breeding the Thai jasmine rice variety KDML105 for non-age related broad-spectrum resistance to bacterial blight disease based on combined marker-assisted and phenotypic selection. *Field Crops Research*. 137: 186-194.
- T Toojinda and **J Lanceras-Siangliw**. 2013. Advancing Thailand's Rice Agriculture through Molecular Breeding. *Asia Pacific BIOTEC News*. Vol. 4. P. 40-43.

- Win KM, S Korinsak, P Sirithunya, **J Lanceras-Siangliw**, W Jamboonsri, T Da, S Patarapuwado and T Toojinda. 2013. Marker assisted introgression of multiple genes for bacterial blight resistance into aromatic Manawthukha MK-75, a Myanmar Basmati-like quality rice variety. *Field Crops Research*. 154: 164-171.
- Manivong P, S Korinsak, S Korinsak, **JL Siangliw**, A Vanavichit and T Toojinda. 2014. Marker-assisted selection to improve submergence tolerance, blast resistance and strong fragrance in glutinous rice. *Thai J. Genet.* 7 (2): 110-122
- Pamuta D, P Theerakulpisut, W Lontom, J Sanitchon, J Pengrat, **JL Siangliw** and T Toojinda. 2014. Effects of salt and drought stresses on some physiological characteristics of KDML105 harboring QTL segments controlling drought resistance. *Thai J Botany*. 6(special issue): 199-204
- Kulya C, P Theerakulpisut, N Sriyot, W Pattanagul, W Lontom, J Sanitchon, J Pengrat, **JL Siangliw** and T Toojinda. 2014. Comparative leaf anatomy of drought tolerant and drought sensitive rice cultivars. 6 (2): 95-105.
- Oo KS, A Kongjaimun, S Khanthong, M Yi, T Myint, S Korinsak, **JL Siangliw**, KM Myint, A Vanavichit and T Toojinda. 2015. Characterization of Myanmar Paw San Hmwe Accessions Using Functional Genetic Markers. 22(2):53-64.
- Korinsak, S, M Siangliw, J Kotcharek, J Jairin, **JL Siangliw**, B Jongdee, G Pantuwan, N Sidthiwong and T Toojinda. 2016. Improvement of the submergence tolerance and the brown plan-thopper resistance of the Thai jasmine rice cultivar KDML105 by pyramiding Sub1 and Qbph12. *Field Crops Res.* <http://dx.doi.org/10.1016/j.fcr.2015.10.025>
- Noppawan Nounjan, **Jonaliza L. Siangliw**, Theerayut Toojinda, Supachitra Chadchawan, Piyada Theerakulpisut. 2016. Salt-responsive mechanisms in chromosome segment substitution lines of rice (*Oryza sativa* L. cv. KDML105). *Plant Physiology and Biochemistry*. 103: 96-105
- Punyawaew K, D Suriya-arunroj, M. Siangliw, M Thida, **J. Lanceras-Siangliw**, S Fukai and T Toojinda. 2016. Thai jasmine rice cultivar KDML105 carrying Saltol QTL exhibiting salinity tolerance at seedling stage. *Molecular Breeding*. DOI 10.1007/s11032-016-0574-8
- Pinta W., N. Vorasoot, N. Jongrunklang, **J. Lanceras-Siangliw**, T. Toojinda and J Sanitchon. 2017. Evaluation of Khao Dawk Mali 105 chromosome segment substitution lines possessing various drought tolerance QTLs under drought stress. *SABRAO Journal of Breeding and Genetics*. 49 (4): 368-386
- Khanthong S, S Kate-ngam, K Riabroy, **JL Siangliw** and T Toojinda. 2018. Development of aromatic glutinous rice for rainfed lowland areas by marker-assisted selection. *Chiang Mai J. Sci.* 45 (6): 2312-2321.
- Larkunthod P, N Nounjan, **JL Siangliw**, T Toojinda, J Sanitchon, B Jongdee and P Theerakulpisut. 2018. Physiological Responses under Drought Stress of Improved Drought-Tolerant Rice Lines and their Parents. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*. 46 (2). DOI: <http://dx.doi.org/10.15835/nbha46211188>
- Vanavichit A, Kamolsukyeunyong W, Siangliw M, **Siangliw JL**, Traprab S, Ruengphayak S, Chaichoompu E, Saensuk C, Phuvaranarubal E, Toojinda T, Tragoonrung S (2018) Thai Hom Mali rice: Origin and breeding for subsistence rainfed lowland rice system. *Rice*. 11:20 (<https://doi.org/10.1186/s12284-018-0212-7>).
- Owusu-Nketia, S., **J.L. Siangliw**, M. Siangliw, T. Toojinda, A. Vanavichit, N. Ratsameejamphen, M. Ruangsiri, S. Sriwiset, R.R. Suralta, Y. Inukai, S. Mitsuya, M. Kano-Nakata, D.T. Ngoc Nguyen, K. Takuya, A. Yamauchi. 2018. Functional roles of root plasticity and its contribution to water uptake and dry matter production of CSSLs of KDML105 under soil moisture fluctuation. *Plant Production Science*. <https://doi.org/10.1080/1343943X.2018.1477509>.
- Pinta W., N. Vorasoot, N. Jongrunklang, **J. Lanceras-Siangliw**, T. Toojinda and J Sanitchon. 2018. Root responses in chromosome segment substitution lines of rice "KDML105" under early drought stress. *Chilean J of Agriculture*. doi 10.4067/S0718-58392018000200238.
- Kusumawati, L., P. Chumwong, W. Jamboonsri, S. Wanchana, **J.L. Siangliw**, M. Siangliw, S. Khanthong, A. Vanavichit, W. Kamolsukyeunyong and T. Toojinda. 2018. Candidate genes and molecular markers associated with brown planthopper (*Nilaparvata lugens* Stal) resistance in rice cultivar Rathu Heenati. *Mol Breeding*. <https://doi.org/10.1007/s11032-018-0847-5>.
- Kulya, C., J.L. Siangliw, T. Toojinda, W. Lontom, W. Pattanagul, N. Sriyot, J. Sanitchon and P. Theerakulpisut. 2018. Variation in leaf anatomical characteristics in chromosomal segment substitution lines in KDML105 carrying drought tolerant QTL segments. *ScienceAsia*. 44 (2018): 197-211
- Nounjan N., P. Chansongkrow, V. Charoensawan, **J.L. Siangliw**, T. Toojinda, S. Chadchawan and P. Theerakulpisut. 2018. High performance of photosynthesis and osmotic adjustment are associated with salt tolerance ability in rice carrying drought tolerance QTL: Physiological and co-expression network analysis. *Frontiers in Plant Science*. doi: 10.3389/fpls.2018.01135
- Hungsaprug, K., T. Kohonna, M. Samleean, C. Punchkhon, W. Ut-Khao, B. Kositsup, W. Ksadettranun, **J.L. Siangliw**. T. Toojinda, L. Comai, K. Plaimas and S. Chadchawan. 2019. Chlorophyll fluorescence, leaf gas exchange, and genomic analysis of chromosome segment substitution rice lines exposed to drought stress. *Photosynthetica* 57 (SI): 29-42.
- Klinsawang S. **J.L. Siangliw**, P. Vejchasarn, T. Toojinda and P. Saengwilai. 2020. Quantitative trait loci analysis of stele traits of rice (*Oryza sativa*) under well-watered and drought conditions. *EnvironmentAsia*. 13 (SI): 64-71. DOI 10.14456/ea.2020.23
- Punchkhon C, K Plaimas, T Buaboocha, **JL Siangliw**, T Toojinda, L Comai, N De Diego, L Spichal and S Chadchawan. 2020. Drought-tolerance gene identification using genome comparison and co-expression network analysis of chromosome substitution lines in rice. *Genes*. 11, 1197; doi:10.3390/genes11101197
- Nounjan N, W Mahakham, **JL Siangliw**, T Toojinda and T Theerakulpisut. 2020. Chlorophyll retention and high photosynthetic performance contribute to salinity tolerance in rice carrying drought tolerance QTL. *Agriculture*. 10, 620; doi:10.3390/agriculture10120620
- Pamuta D, M Siangliw, J Sanitchon, J Pengrat, **JL Siangliw**, T Toojinda and P. Theerakulpisut. 2020. Photosynthetic Performance in Improved 'KDML105' Rice (*Oryza sativa* L.) Lines Containing Drought and Salt Tolerance Genes under Drought and Salt Stress. *Pertanika J Trop Agri*. 43 (4): 653 – 675.
- Ruangsiri M, P Vejchasarn, P Saengwilai, J Lynch, MJ Bennett, KM Brown, C Chutteang, R Boonruangrod, J Shearman, T Toojinda and **JL Siangliw**. 2021. Genetic Control of Root Architectural Traits in KDML105

- Chromosome Segment Substitution Lines under Well-watered and Drought Stress Conditions. *Plant Prod Sci.* <https://doi.org/10.1080/1343943X.2021.1883990>.
- Sandar M.M, M Ruangsiri, C Chutteang, A Arunyanark, T Toojinda and **J.L. Siangliw**. 2022. Root characterization of Myanmar upland and lowland rice in relation to agronomic and physiological traits under drought stress condition. *Agronomy*. 12: 1230 <https://doi.org/10.3390/agronomy12051230>
- Myint, NNA, S Korinsak, C Chutteang, K Laosatit, B Thunnom, T Toojinda and **JL Siangliw**. 2022. Identification of pathogenicity loci in *Magnaporthe oryzae* using GWAS with neck blast phenotypic data. *Gene*. 13: 916. <https://doi.org/10.3390/genes13050916>
- Siangliw JL**, B Thunnom, MA Natividad, MR Quintana, D Chebatarov, KL McNally, JP Lynch, KM Brown and A Henry. 2022. 13: <https://doi.org/10.3389/fpls.2022.1008954>
- Lertngim N, M Ruangsiri, S Klinsawang, P Raksatikan, B Thunnom, M Siangliw, T Toojinda and **JL Siangliw**. 2023. Photosynthetic plasticity and stomatal adjustment in chromosome segment substitution lines of rice cultivar KDML105 under drought stress. *Plants*. 12:94 <https://doi.org/10.3390/plants12010094>

POSTER/ORAL PRESENTATIONS

- Lanceras JC**, Vanavichit A, Tragoonrungs S, Toojinda T. Mapping genes for cooking quality in Thai Jasmine rice (KDML105). General Meeting of the International Program on Rice Biotechnology, September 20-24, 1999. Phuket, Thailand.
- Toojinda T, **Lanceras JC**, Huang ZL, Naivikul A, Sirithunya P, Tragoonrungs S, Vanavichit A. Thai jasmine rice 'KDML105'; Genome regions affecting cooking quality, aroma and photosensitivity. *Plant & Animal Genome VII*. P.167. Town & Country Hotel, San Diego, CA, January 9-12, 2000.
- Lanceras JC**, Tragoonrungs S, Vanavichit A and Naivikul O. Fine mapping of genes controlling intermediate amylose content in rice using bulked segregant analysis. Fourth International Rice Genetics Symposium. 22-27 October 2000. IRRI, Laguna, Philippines.
- Lanceras JC**, Toojinda T and S McCouch. Database information and application for drought resistance improvement in rice: An International Workshop on Progress Toward Developing Resilient Crops for Drought-Prone Areas. 27-30, 2002. IRRI, Los Banos, Laguna, Philippines.
- Lanceras JC**. Understanding the response of grain yield and yield components to drought stress at flowering stage via quantitative trait loci analysis in doubled-haploid rice population. *Rice Biotechnology* 2003. 18 July 2003 Pattaya, Thailand
- Toojinda T, **Siangliw JL**, Vanavichit A, Jongdee B and Pantuwan G. Quantitative trait loci (QTL) associated with drought tolerance at reproductive stage in rice. *Resilient Crops for Water-Limited Environments: Proceedings of a workshop held at Cuernavaca, Mexico*. 24-28 May 2004 Cuernavaca, Mexico.
- Toojinda T, Jongdee B, Pantuwan G, **Siangliw JL** and Pa-In N. Improving drought resistance in rainfed lowland rice for Mekong Region: Concept and practical use of MAS to develop cultivars with high quality and drought tolerance. *Resilient Crops for Water-Limited Environments: Proceedings of a workshop held at Cuernavaca, Mexico*. 24-28 May 2004 Cuernavaca, Mexico.
- Siangliw JL**, Toojinda T, Pantuwan G and Jongdee B. Genetic complexity of drought tolerance in rice. *Rice for the Future: The First International Conference*. 31 August – 3 September 2004. Kasetsart University, Bangkok, Thailand.
- Toojinda T, **Lanceras J**, Jirakongmun S, Pantuwan G. Mapping of QTLs for drought tolerance. Fifth International Rice Genetics Symposium. 19-23 Nov. 2005 (IRRI) Manila, Philippines.
- Toojinda T, **Siangliw JL**, Katengam S, Sarom M, Changpaensay M and Aung T. 2008. Annual Research Meeting of Generation Challenge Program. Benoni, South Africa. Sep. 12-16, 2007.
- Korinsak, S., **J. L. Siangliw** and T. Toojinda. 2007. Development of drought tolerance in rice using molecular technique and conventional breeding, pp. 224. The 2nd International conference on rice for the future. Bangkok, Thailand
- Kunjoo V, Punyawaew K, **Siangliw JL** and Toojinda T. 2007. Development of single QTL near isogenic line of KDML 105 for dissection of drought tolerance. The 2nd International Conference on Rice for the Future. 5-9 November, 2007. Queen Sirikit National Convention Center, Bangkok, Thailand
- Kunjoo V, **Siangliw JL** and Theerayut Tinjinda. 2007. Development of single QTL near isogenic lines of KDML105 for dissection of drought tolerance in rice. *AgBiotech Graduate Conference III*. December 7-8, 2007. Kasetsart University, Kamphaeng Sean, Nakhon Pathom, Thailand.
- Toojinda T, **Siangliw JL**, Katengam S, Sarom M, Changpaensay M and Aung T. 2009. Annual Research Meeting of Generation Challenge Program. Bangkok, Thailand. Sept. 16-20, 2008.
- Kunjoo V, Punyawaew K, **Siangliw JL**, Vanavichit A and Toojinda T. 2008. Marker assisted introgression with plant type selection for grain yield improvement under drought stresses in Thai jasmine rice. National Agriculture conference, 8-10 September, 2008. Naresuan University, Pitsanulok, Thailand
- Siangliw JL**, Toojinda T, Pantuwan G, Jongdee B, Jearakongman S, Vanavichit A, Tragoonrungs S and Punyawaew K. 2009. ABIC 2009: Molecular introgression of drought resistance QTL into KDML105 through marker-assisted backcrossing method. Queen Sirikit National Convention Center, Bangkok, Thailand. September 22-25, 2009.
- Siangliw JL**, Toojinda T, Pantuwan G, Jongdee B, Jearakongman S, Rathmuny T, Punyawaew K and Vanavichit A. 2010. Drought resistance QTL from various rice populations under rainfed lowland ecosystem in Thailand. National Rice Research Conference. Kasetsart University. Dec. 15-17, 2010.
- Siangliw M, Patanatarat A, Ruanjaichon V, Kanawapee N, Theerakulpisut P, Saisamai K, **Siangliw JL**, Toojinda T, Fukui S and Vanavichit A. 2010. SaltQTLchr1b (qSt1b) associated with salinity tolerance in rice seedling under soil-culture and field conditions. National Rice Research Conference. Kasetsart University. Dec. 15-17, 2010.

- Siangliw JL**, T Toojinda, K Soe, B Bouahom and O Makara. 2011. Pyramiding of resistance QTL/gene into Mekong mega varieties using marker-assisted selection backcrossing, Generation Challenge Program General Research Meeting. Hyderabad, India. Sept. 21-25, 2011.
- Siangliw JL** and T Toojinda. 2011. Strengthening Rice Breeding Program in Mekong Region, Generation Challenge Program General Research Meeting. Hyderabad, India. Sept. 21-25, 2011.
- Siangliw JL**, V Kanjoo, K Punyawaew, M Siangliw, S Jearkongman, S Suakham, AVanavichit and T Toojinda. 2012. KDML105 chromosome segment substitution lines may pave way in understanding QTL underlying drought resistance and salinity tolerance indentified in rainfed lowland ecosystem. 10th International Rice Functional Genomics. Chiangmai, Thailand. Nov. 26-29, 2012.
- ปริญญ ลาขุนทด, ปิยะดา ชีระกุลพิศุทธิ์, วัฒนชัย ล้นทม, จิรวัฒน์ สนิทชน, จริญญา เฟื่องรัตน์, **Jonaliza Lanceras Siangliw** และ ชัยยุทธ ตูจินดา. 2557. การเปลี่ยนแปลงค่าศักยภาพของน้ำ ปริมาณน้ำสัมพัทธ์ และศักยภาพออสโมซิสของใบข้าวในสภาวะแล้ง. การประชุมวิชาการพฤกษศาสตร์แห่งประเทศไทย ครั้งที่ 8 2-4 เมษายน 2557. หน้า 108. ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่, เชียงใหม่.
- จริญญา กลุยะ, ปิยะดา ชีระกุลพิศุทธิ์, นราศักดิ์ ศรียศ, วัฒนา พัฒนากุล, วัฒนชัย ล้นทม, จิรวัฒน์ สนิทชน, จริญญา เฟื่องรัตน์, **Jonaliza L. Siangliw** และ ชัยยุทธ ตูจินดา. 2557. ภายใต้การศึกษาศาสตร์เปรียบเทียบของข้าวพันธุ์ทนแล้งและไม่ทนแล้ง. การประชุมวิชาการพฤกษศาสตร์แห่งประเทศไทย ครั้งที่ 8 2-4 เมษายน พ.ศ. 2557. ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่, เชียงใหม่ หน้า 89.
- Kulya, C, Theerakulpisut, P, Pattanagul, W, Lontom, W, Sanitchon, J, **Siangliw, J**, Toojinda, T. 2014. Variation in leaf anatomical Characteristics of chromosomal segment substitution lines (CSSLs) of KDML105 carrying drought tolerant QTL segments from drought tolerant donors. The 40th Congress on Science and Technology of Thailand "Science and Technology towards Asean Development". 2-4 December 2014. Pullman KhonKaen Raja Orchid KhonKaen, Thailand. Page 271-272
- Laeh Homsengchanh, ชัยยุทธ ตูจินดา, อภิชาติ วรรณวิจิตร, **Jonaliza L. Siangliw**. 2557. Characterization of shoot and root traits under control and drought stress conditions of KDML105 CSSLs rice population at maximum tillering stage. การประชุมวิชาการข้าวแห่งชาติ ครั้งที่ 3 11-12 กันยายน 2557 โรงแรมมิราเคิล แกรนด์ คอนเวนชั่น กรุงเทพฯ.
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