

Cheryl O. Dalid

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PROFESSIONAL SUMMARY

Experienced plant geneticist and breeder with a research background in cross-pollinated and self-pollinated crops. Skilled in field evaluations, statistical analyses, and molecular marker work. Research professional with the ability to manage and collaborate effectively with people.

EDUCATION

PhD	Plant, Soil, and Environmental Sciences, concentration in Plant Breeding Minor in Statistics University of Tennessee Knoxville Dissertation: Genetic Diversity, Genetic Variation and Identification of Quantitative Trait Loci (QTL) Associated with Biomass Yield and Establishment-Related Traits in Lowland Switchgrass (<i>Panicum virgatum</i> L.)	2018
MS	Genetics Minor in Molecular Biology and Biotechnology University of the Philippines Los Baños Thesis: <i>Phosphorus uptake 1 (Pup1)</i> : Application of Gene Specific Markers for Marker-Assisted Breeding and Evolution Studies in (<i>Oryza sativa</i> L.).	2011
BS	Biology Major in Genetics University of the Philippines Los Baños Thesis: Individual Seed Evaluation for High Methionine of Interspecific F ₂ Hybrid Populations of Mungbean (<i>Vigna radiata</i> (L.) Wilczek) and Blackgram (<i>Vigna mungo</i> (L.) Hepper).	2004

WORK EXPERIENCE

University of Florida UF/IFAS Gulf Coast Research and Education Center Department of Horticultural Sciences Strawberry Breeding and Genetics <i>Biological Scientist II/Strawberry Breeding Manager</i> <ul style="list-style-type: none">• Design, conduct, and supervise the implementation of experiments in the lab, greenhouse, and field related to strawberry breeding and genetics with an emphasis on controlled crossing and marker-assisted selection.• Manage and organize records and data and perform statistical analyses.• Coordinate the daily operations of the strawberry breeding program, including supervision and scheduling of support personnel in consultation with the immediate supervisor.• Assist with other summer nursery, fruiting field, greenhouse, and lab activities of the breeding program as needed.• Assist in preparing data and methods for scientific meetings and peer-reviewed publications.	2018-present
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WORK EXPERIENCE, CONT.

University of Tennessee Knoxville

2018

Department of Plant Sciences

Soybean Breeding

Research Aide

- Assist in soybean field operations such as seed packaging, field lay-outing, and planting.
- Assist in leaf sample collection and DNA extraction.
- Assist in data collections and statistical analyses.

University of Tennessee Knoxville

2013-2017

Department of Plant Sciences

Bioenergy/Biomass Feedstock Breeding and Genetics

Graduate Research Assistant

- Evaluate genetic diversity among lowland switchgrass based on microsatellite markers (SSR).
- Assess genetic variation and estimate expected genetic gain in lowland switchgrass.
- Identify QTLs and molecular markers associated with establishment -related traits using a NAM (Nested Association Mapping) population.
- Write and present data in scientific meetings and peer-reviewed publications.

International Rice Research Institute (IRRI)

2008-2013

Plant Breeding, Genetics, and Biotechnology Division,
Candidate Genes for Tolerance to Abiotic Stresses Group,
Molecular Breeding Laboratory

Researcher

Project: Stress-tolerant Rice for Africa and South Asia

- Develop new *Phosphorus uptake 1 (Pup1)* breeding populations using marker-assisted selection and field evaluations.
- Analyze phylogeny of the *Pup1* locus by PCR analyses of wild rice using gene specific markers.
- Set up and monitor field experiments, data collections and statistical analyses, as well as production of pure and high quality seeds of the breeding materials.
- Assist in preparing data and methods for scientific meetings and peer-reviewed publications.

Plant Industrial Division, Fungi and Plants Co. Ltd.

2008

Doan-myeon, Jeungpyeong-gun, Chungcheongbuk-do, South Korea

Researcher

- Assist in marker-assisted selection using microsatellite markers (SSR) in pepper breeding populations.
- Collect phenotypic data from greenhouse plants.

International Rice Research Institute (IRRI)

2005- 2007

Plant Breeding, Genetics, and Biotechnology Division,
Rainfed Lowland, Aerobic and Upland Rice Breeding Group,
Molecular Marker Applications Laboratory

Research Technician II

Project: Enhancing Rice- Drought Project

- Perform high-throughput molecular marker genotyping of rice breeding populations for drought tolerance.
- Assist in field data collections and manage leaf collections and DNA extractions.
- Assist in data preparation for scientific meetings and peer-reviewed publications.
- Oversee activities of scholars and co-technician during laboratory experiments.

WORK EXPERIENCE, CONT.

- World Vegetable Center (AVRDC)** 2003
Shanhua, Tainan, Taiwan
Undergraduate Intern
- Evaluate seeds through chemical analysis for high methionine of interspecific F₂ hybrid populations of mungbean (*Vigna radiata* (L.) Wilczek) and blackgram (*Vigna mungo* (L.) Hepper).
 - Analyze data for thesis documentation.

TEACHING EXPERIENCE

- University of Tennessee Knoxville** Spring 2016
Department of Plant Sciences
Graduate Teaching Assistant – Agroecology
- University of Tennessee Knoxville** Fall 2015
Department of Plant Sciences
Graduate Teaching Assistant – Introduction to Plant Breeding
- International Rice Research Institute (IRRI)** 24 Nov-
Training Center, College, Los Baños, Laguna, Philippines 05 Dec 2008
Resource Person – Marker Assisted Selection (MAS) in Rice: Theory, Practice, and Application

PUBLICATIONS AND PRESENTATIONS

Refereed Journal Publications

- Dalid, C.O.**, A.M. Saxton, F.L. Allen, V.R. Pantalone, S. Nayak, and H.S. Bhandari. 2018. Genetic Variation and Expected Per Cycle Biomass Yield Gain in Lowland Switchgrass (*Panicum virgatum* L.). *Crop Science*. doi:10.2135/cropsci2018.01.0026
- Bhandari, H.S., S. Nayak, **C.O. Dalid** and V.R. Sykes. 2017. Biomass Yield Heterosis in Lowland Switchgrass. *Crop Science*. 57: 2015-2023. doi:10.2135/cropsci2017.02.0080.
- Pariasca-Tanaka J., J.H. Chin, K.N. Dramé, **C. Dalid**, S. Heuer, and M. Wissuwa. 2014. A novel allele of the P-starvation tolerance gene OsPSTOL1 from African rice (*Oryza glaberrima* Steud) and its distribution in the genus *Oryza*. *Theoretical and Applied Genetics*. 127:1387-98.
- Gamuyao, R., J.H. Chin, J. Pariasca-Tanaka, P. Pesaresi, S. Catausan, **C. Dalid**, I. Slamet-Loedin, E.M. Tecson-Mendoza, M. Wissuwa, and S. Heuer. 2012. The protein kinase OsPSTOL1 from traditional rice confers tolerance of phosphorus deficiency. *Nature*. 488(7412):535-9.
- Chin, J.H., R. Gamuyao, **C. Dalid**, M. Bustamam, J. Prasetyono, S. Moeljopawiro, M. Wissuwa, and S. Heuer. 2011. Developing Rice with High Yield under Phosphorus deficiency: *Pup1* sequence to application. *Plant physiology*. 156: 1202-16.
- Venuprasad, R., **C. Dalid**, M. Del Valle, D. Zhao, M. Espiritu, M.T. Sta Cruz, M. Amante, A. Kumar, and G.N. Atlin. 2009. Identification and characterization of large-effect quantitative trait loci for grain yield under lowland drought stress in rice using bulk-segregant analysis. *Theoretical and Applied Genetics*. 120:177-190.
- Venuprasad, R., M.E. Bool, **C. Dalid**, J. Bernier, A. Kumar, and G.N. Atlin. 2009. Genetic loci responding to two cycles of divergent selection for grain yield under drought stress in a rice breeding population. *Euphytica*. 167:261-269.

PUBLICATIONS AND PRESENTATIONS, CONT.

Conference Presentations (Oral)

Dalid, C., J.H. Chin, J. Prasetyono, M. Bustamam, S. Moeljopawiro, R.L. Gamuyao, S. Catausan, M. Wissuwa, and S. Heuer. 2012. Molecular breeding applications of the major QTL for tolerance to phosphorus deficiency, *Pup1*. *42nd Scientific Conference of the Crop Science Societies of the Philippines (CSSP)*. 16-21 April 2012. Puerto Princesa City, Palawan, Philippines.

Conference Presentations (Poster)

Dalid, C., S. Nayak, F. Chen, V. Pantalone, A. Saxton, F. Allen, and H. Bhandari. 2016. Genetic variation and estimation of ethanol yield of Alamo half-sib families. *ASA, CSSA, and SSSA International Annual Meeting*. 6-9 November 2016. Phoenix, Arizona.

Dalid, C., K. Chekhovskiy, S. Nayak, M. Saha, and H. Bhandari. 2016. Diversity among lowland switchgrass (*Panicum virgatum* L.) based on microsatellite markers (SSR). 2016. *National Association of Plant Breeders Annual Meeting*. 15-18 August 2016. Raleigh, North Carolina.

Dalid, C., K. Chekhovskiy, S. Nayak, M. Saha, and H. Bhandari. 2015. Genetic diversity analysis of lowland switchgrass (*Panicum virgatum* L.) using SSR (Simple Sequence Repeats) markers. *Switchgrass III: Prairie and Native Grass International Conference*. 30 September- 2 October 2015. Knoxville, Tennessee.

Dalid, C., J. Hentchel, W. Carmack, A. Aust, F. Allen, and H. Bhandari. 2014. Phenotypic Selection Improves Biomass Yield of an Alamo Population of Switchgrass. *ASA, CSSA, and SSSA International Annual Meeting*. 2-5 November 2014. Long Beach, California.

Dalid, C., R.L. Gamuyao, N. Hidayatun, S. Catausan, J. Prasetyono, S. Moeljopawiro, J. Pariasca-Tanaka, M. Wissuwa, J.H. Chin, and S. Heuer. 2013. Breeding for Phosphorus Deficiency Tolerance. *Plant and Animal Genome Asia Conference*. 17-19 March 2013. Singapore, Singapore.

Gamuyao, R.L., J.H. Chin, J. Pariasca-Tanaka, P. Pesaresi, S. Catausan, **C. Dalid**, M. Wissuwa, and S. Heuer. 2012. The Rice Protein Kinase *OsPSTOL* is an Enhancer of Root Growth. *10th International Symposium of Rice Functional Genomics*. 26-29 November 2012. Chiang Mai, Thailand.

Dalid, C., R.L. Gamuyao, J. Prasetyono, S. Heuer, and J.H. Chin. Development of breeding lines with a major QTL for phosphorus deficiency tolerance (*Pup1*) through marker-assisted backcrossing in rice. *Annual Conference of the Korean Society for Plant Biotechnology*. 7-8 June 2012. Chungbuk University, Cheongju, South Korea.

Gamuyao, R.L., J.H. Chin, J. Pariasca-Tanaka, P. Pesaresi, S. Catausan, **C. Dalid**, M. Wissuwa, and S. Heuer. 2012. The Protein Kinase *Phosphorus Starvation Tolerance 1 (OsPSTOL1)* Gene in the *Phosphorus Uptake 1 (Pup1)* Locus Confers P-deficiency Tolerance. *42nd Scientific Conference of the Crop Science Societies of the Philippines (CSSP)*. 16-21 April 2012. Puerto Princesa City, Palawan, Philippines.

Dalid, C., R.L. Gamuyao, M. Bustamam, J. Prasetyono, S. Moeljopawiro, J.H. Chin, and S. Heuer. 2012. Development of *indica*-*Pup1* introgression lines through marker-assisted backcrossing. *12th Scientific Congress of the Society for the Advancement of Breeding Research in Asia and Oceania (SABRAO)*. 13-16 January 2012. Chiang Mai, Thailand.

Chin, J.H., R.L. Gamuyao, **C. Dalid**, M. Bustamam, J. Prasetyono, S. Moeljopawiro, M. Wissuwa, and S. Heuer. 2011. *Pup1* sequence to molecular marker application: High yielding rice under low phosphorus. *9th International Symposium of Rice Functional Genomics*. 7-9 November 2011. Academia Sinica, Taipei, Taiwan.

Dalid, C., J.H. Chin, R.L. Gamuyao, M. Wissuwa, and S. Heuer. 2011. *Phosphate uptake 1 (Pup1)*: Applications of gene-specific markers for breeding and evolution studies. *21th Scientific Conference of the Federation of Crop Science Societies of the Philippines (FCSSP)*. 9-14 May 2011. Legazpi City, Philippines.

Dalid C., J.H. Chin, J.L. Trinidad, R.L. Gamuyao, S. Haefele, M. Wissuwa, M. Bustamam, J. Prasetyono, and S. Heuer. 2010. Molecular breeding application of gene-specific markers for the major QTL *Phosphorus uptake 1 (Pup1)*. *40th Scientific Conference of the Crop Science Societies of the Philippines (CSSP)*. 15-20 March 2010. Davao City, Philippines.

PUBLICATIONS AND PRESENTATIONS, CONT.

Conference Presentations (Poster)

Chin, J.H., **C. Dalid**, R.L. Gamuyao, S. Amarante, J. Siopongco, J. Trinidad, M. Wissuwa, S. Haeefe, and S. Heuer. 2009. Development and application of gene-based markers for the major QTL *Phosphorus uptake 1 (Pup1)*. *6th International Rice Genetics Symposium*. 16-19 November 2009. Manila, Philippines.

Dalid, C., J.H. Chin, J.L. Trinidad, R.L. Gamuyao, S. Haeefe, A.M. Ismail, M. Wissuwa and S. Heuer. 2009. Application of the major QTL *Phosphate uptake 1 (Pup1)*. *20th Scientific Conference of the Federation of Crop Science Societies of the Philippines (FSCCP)*. 18-23 May 2009. Dumaguete City, Philippines.

GRANTS

Dalid, C. 2016. *UTIA AgResearch Travel Grant*. \$1,500

Dalid, C. 2014. *Switchgrass III: Prairie and Native Grass International Conference*, Knoxville, TN. Presentation Fellowship. \$225.

SOFTWARE PROFICIENCY

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NCSS

PROFESSIONAL AFFILIATIONS

National Association of Plant Breeders
Crop Science Society of America
The Honor Society of Phi Kappa Phi
Gamma Sigma Delta Honor Society of Agriculture
IRRI Filipino Scientists Association
Crop Science Society of the Philippines

REFERENCES

Dr. Vance Whitaker, Associate Professor
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254 Plant Biotechnology Building
2505 E.J. Chapman Drive
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