

Teresa B. De Leon, Ph.D.

EDUCATION

Ph.D. in Plant Breeding and Genetics, Louisiana State University, 2016
M.S. in Molecular Biology & Biotechnology, University of the Philippines at Los Baños, 2007
B.S. in Biology, University of the Philippines at Los Baños, 2000

EMPLOYMENT

Plant Breeder, California Cooperative Rice Research Foundation, Inc., Biggs, CA, 2018 to Present
Postdoctoral Scholar, University of California, Davis, 2017-2018
Graduate Research Assistant, Louisiana State University, 2012-2016
Research Associate, Louisiana State University, 2008-2011
Assistant Scientist, Research Scholar, International Rice Research Institute, 2004-2007
University Research Associate, University of the Philippines at Los Baños, 2000-2004

PATENTS

Oxyfluorfen Resistant Rice Lines, U.S. Patent # 11,180,771 B2, Nov. 23, 2021
Rice cultivar M-211, U.S. Patent # 11,013,192 B2, May 25, 2021
Rice cultivar L-208, U.S. Patent # 11,006,596 B2, May 18, 2021

PUBLICATIONS

De Leon TB, Pruthi R, Jampala B, Borjas AH, Subudhi PK (2020) Genetic Determinants for agronomic and yield-related traits localized on a GBS-SNP linkage map from a japonica x indica cross in rice. *Plant Gene* 24, 100249

Karn E, **De Leon TB**, Espino L, Al-Khatib K, Brim-DeForest (2020) Effects of competition from California weedy rice (*Oryza sativa* f. *spontanea*) biotypes on a cultivated rice variety. *Weed Technology* 34 (5), 666-674

Karn E, **De Leon TB**, Espino L, Al-Khatib K, Brim-DeForest (2020) Phenotypic diversity of weedy rice (*Oryza sativa* f. *spontanea*) biotypes found in California and implications for management. *Weed Science* 68 (5), 485-495

Subudhi PK, Garcia Rs, Coronejo S, **De Leon TB** (2020) A novel mutation of the *NARROWLEAF 1* Gene adversely affects plant architecture in rice (*Oryza sativa* L.). *International Journal of Molecular Sciences* 21 (21), 8106

De Leon TB, Karn E, Al-Khatib K, Espino L, Blank T, Andaya CB, Andaya VC, Brim-DeForest (2019) Genetic variation and possible origins of weedy rice found in California. *Ecology and Evolution* 9 (10), 5835-5848

Subudhi PK, **De Leon TB**, Tapia R, Chai C, Karan R, Ontoy J, Singh PK (2018) Genetic interaction involving photoperiod-responsive *Hd1* promotes early flowering under long-day conditions in rice. *Scientific Reports* 8 (1), 1-11

De Leon TB, Linscombe S, and Subudhi PK (2017) Identification and validation of QTLs for seedling salinity tolerance in introgression lines of a salt tolerant rice landrace 'Pokkali'. *PLoS ONE* 12 (4): e0175361.

De Leon TB, Linscombe S, and Subudhi PK (2016) Molecular dissection of seedling salinity tolerance of rice (*Oryza sativa* L.) using a high-density GBS-based SNP linkage map. *Rice* 9:52

De Leon TB, Linscombe S, Gregorio G and Subudhi PK (2015) Genetic variation in Southern USA rice genotypes for seedling salinity tolerance. *Front. Plant Sci.* 6:374

Borjas AH, **De Leon TB**, and Subudhi PK (2015) Genetic analysis of germinating ability and seedling vigor under cold stress in US weedy rice. *Euphytica* 208: 251-264

Subudhi PK, **De Leon TB**, Singh PK, Parco A, Cohn MA, and Sasaki T (2015) A Chromosome Segment Substitution Library of Weedy Rice for Genetic Dissection of Complex Agronomic and Domestication Traits. *PLoS ONE* 10(6)

Subudhi P, Singh P, **De Leon TB**, Parco A, Karan R, Biradar H, Cohn M, and Sasaki T (2014) Mapping of Seed Shattering Loci Provides Insights into Origin of Weedy Rice and Rice Domestication. *Journal of Heredity* 105 (2): 276-287

Subudhi P, Parco A, Singh P, **De Leon TB**, Karan R, Biradar H, Cohn M, Brar D, and Sasaki T (2012) Genetic architecture of seed dormancy in U.S. weedy rice in different genetic backgrounds. *Crop Science* 52:2564-2575

- Satoh K, Kondoh H, **De Leon TB**, Macalalad RJA, Cabunagan RC, Cabauatan PQ, Mauleon R, Kikuchi S, and Choi IR (2012) Gene expression responses to rice tungro spherical virus in susceptible and resistant near isogenic rice plants. *Virus Research* 171(2013):111-120
- Karan R, **De Leon TB**, Biradar H, and Subudhi PK (2012) Salt stress induced variation in DNA methylation pattern and its influence on gene expression in contrasting rice genotypes. *PLOS ONE* 7(6): e40203
- Lee JH, Muhsin M, Atienza GA, Kwak DY, Kim SM, **De Leon TB**, Angeles ER, Coloquio E, Kondoh H, Satoh K, Cabunagan RC, Cabauatan PQ, Kikuchi S, Leung H, and Choi IR (2010) Single nucleotide polymorphisms in a gene for translation initiation factor (eIF4G) of rice (*Oryza sativa*) associated with resistance to Rice tungro spherical virus. *Mol. Plant Microbe Interact.* 23(1): 29-38
- Encabo JR, Cabauatan PQ, Cabunagan RC, Satoh K, Lee JH, Kwak DY, **De Leon TB**, Macalalad RJA, Kondoh H, Kikuchi S, and Choi IR (2009) Suppression of two tungro viruses in rice by separable traits originating from cultivar Utri Merah. *Mol. Plant Microbe Interactions* 22(10): 1268-1281
- Heuer S, Lu XC, Chin JH, Tanaka JP, Kanamori H, Matsumoto T, **De Leon TB**, Ulat VJ, Ismail AM, Yano M, and Wissuwa M (2009) Comparative sequence analyses of the major quantitative trait locus phosphorus uptake 1 (Pup1) reveal a complex genetic structure. *Plant Biotechnol. J.* 7(5):456-471

AFFILIATIONS

Gamma Sigma Delta, Honor Society of Agriculture, LSU
Member of Crop Science Society of America
Member of American Society of Agronomy
Member of Soil Science Society of America
Member of American Phytopathological Society (APS)

AWARDS

Gerald O. Mott Meritorious Graduate Student Award (2014)
Eunice and D.L. Fontenot Scholarship (2013-2015)
Graduate Student Travel Award (2014)
Lee & Frances Mason Scholarship (2013)
Graduate Student Travel Award (2013)
International Rice Research Institute MS Scholarship (2004-2007)