



TEXAS A&M UNIVERSITY

Department of Electrical
& Computer Engineering

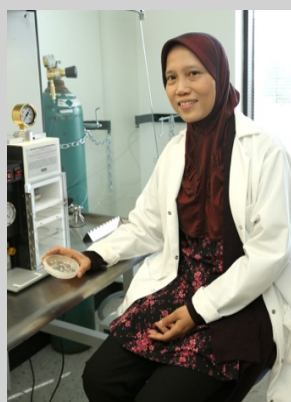
Friday, Nov. 6, 2020 | 4:15 – 5:05 p.m. CST

Bio-Group Seminar | Meeting ID: 514 754 727 | <https://tamu.zoom.us/j/514754727>

QTL Identification and GWAS for Molecular Studies for Rice Improvement

Abstract

My group has been using quantitative trait locus (QTL) mapping to understand the molecular genetic mechanisms underlying various traits for crop improvement. Many QTLs controlling various traits have been mapped and several genes underlying the QTLs have been functionally validated. Recently we have also been using genome-wide association studies (GWAS) with different marker densities to identify marker-trait associations, including yield, agronomic traits, and several abiotic stresses. We aim to functionally validate the genes underlying these traits for further molecular investigation and trait manipulation.



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Dr. Endang Septiningsih (“Septi”) received her Ph.D. in Plant Breeding from Cornell University. Prior to joining TAMU as a faculty member in 2015, she had worked at the International Rice Research Institute (IRRI) in the Philippines for 10 years, where she was a Senior Scientist. She is now an Associate Professor with the Department of Soil and Crop Sciences in the College of Agriculture and Life Sciences at TAMU, with a research focus on plant molecular genetics.