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Education:

- Ph.D., Plant Breeding, Cornell University (minor: Plant Molecular Biology and Plant Pathology), Ithaca, NY
- B.S., Plant Breeding, Faculty of Agriculture, Gadjah Mada University, Indonesia

Professional Preparation and Appointment:

- Associate Professor, Dept. of Soil and Crop Sciences, Texas A&M University, 2018-present
- Adjunct Faculty, Texas Tech University, Lubbock, TX, 2016-present
- Assistant Professor, Dept. of Soil and Crop Sciences, Texas A&M University, 2015-2018
- Adjunct Associate Professor/ Adjunct Professor, University of the Philippines Los Baños, 2009-present
- Senior Scientist, International Rice Research Institute (IRRI), Philippines, 2013-2015
- Scientist, IRRI, Philippines, 2009-2013
- Post-doctoral Research Fellow, IRRI, Philippines, 2005-2008
- Scientist, Indonesian Center for Agricultural Biotechnology and Genetic Resources (ICABIOGRAD), 2003-2005
- Post-doctoral Research Fellow, Cornell University, Ithaca, New York, 2002-2003
- Graduate Research Fellow, Cornell University, Ithaca, New York, 1997-2002

Courses Taught:

- Crop Stress Management (SCSC 402)
- Biotechnology for Crop Improvement (MEPS/GENE/SCSC 411)
- Analysis of Complex Genomes (SCSC 654 700—distance section)

Selected recent publications:

(Career total: refereed journals—35; book chapters—3; conference proceedings—7; conference abstracts—97; listed in italics: graduate student, staff or postdoc; *corresponding author, Google Scholar h-index = 21)

1. **Septiningsih, E.M.***, D.J. Mackill. 2018. Genetics and breeding of flooding tolerance in rice. In: Sasaki, T., Ashikari, M. (eds.). *New Waves in Rice Genomics, Genetics, and Breeding*. **Springer**, Singapore, pp. 275-295.
2. Lal, B.*, P. Gautam, A.K. Nayak, R. Raja, M. Shahid, R. Tripathi, S. Singh, **E. M. Septiningsih**, A.M. Ismail 2018. Agronomic manipulation under anaerobic germination can enhance the productivity of rice in flood-prone areas. *Field Crop Research*. 220:105-116.
3. *Liang, Y., M. Baring, S. Wang, **E.M. Septiningsih****. 2017. Mapping QTLs for resistance to leaf spot in peanut using SNP-based next generation sequencing markers. *Plant Breeding and Biotechnology* 5:115-122.
4. *Singh, A., J. Carandang, Z.J.C Gonzaga, B.Y.C. Collard, A.M. Ismail, **E.M. Septiningsih****. 2017. Identification of QTLs for yield and agronomic traits in rice under stagnant flooding conditions. *Rice* 10:15.
5. Singh, A., **E.M. Septiningsih**, H.S. Balyan, N.K. Singh, V. Rai*. 2017. Genetics, physiological mechanisms and breeding of flood tolerant rice. *Plant and Cell Physiology* 58: 185-197.
6. *Gonzaga, Z.J.C., J. Carandang, A. Singh, B.C.Y. Collard, M.J. Thomson, **E.M. Septiningsih****. 2017. Mapping QTLs for submergence tolerance in rice using a population fixed for *SUB1A* tolerant allele. *Molecular Breeding*. 37:47.
7. Wilkins, O., S. Hafemeinster, A. Plessis, M-M. Holloway-Philips, G. Pham, A. Nicotra, G. Gregorio, S.V. K. Jagadish, **E.M. Septiningsih**, R. Bonneau, M. Purugganan*. 2016. EGRINs (Environmental gene regulatory influence networks) in rice that function in the response to water deficit, high temperature and agricultural environments. *Plant Cell* 28: 2365–2384.
8. Iftekharruddaula, K. M.*, H.U. Ahmed, S. Ghosal, A. Amin, Z.R. Moni, B.P. Ray, H.N. Barman, M.A. Siddique, B.C.Y. Collard, **E.M. Septiningsih***. 2016. Development of early maturing submergence-tolerant rice varieties for Bangladesh. *Field Crop Research*. 190: 44-53.
9. Singh, R., Y. Singh, S. Xalaxo, S. Verulkar, N. Yadav, S Singh, N. Singh, K.S.N. Prasad, K. Kondayya, P.V. R. Rao, M.G. Rani, T. Anuradha, ..., **E. Septiningsih**, U.S. Singh, A.M. Ismail, D. Mackill, N.K. Singh*. 2016. From

QTL to variety-harnessing the benefits of QTLs for drought, flood, and salt tolerance in mega varieties of India through a multi-institutional network. *Plant Science* 242: 278-287.

10. Plessis, A., C. Hafemeister, O. Wilkins, Z. Jean Gonzaga, R.S. Meyer, I. Pires, C. Müller, **E.M. Septiningsih**, R. Bonneau, M. Purugganan*. 2015. Multiple abiotic stimuli are integrated in the regulation of rice gene expression under field conditions. *eLife* 2015; 10.7554/eLife.08411.
11. *Kretzschmar, T., M.A.F. Pelayo*, K.R. Trijatmiko, *L.F.M. Gabunada*, R. Alam, R. Jimenez, M.S. Mendioro, I.H. Slamet-Loedin, N. Sreenivasulu, J. Bailey-Serres, A.M. Ismail, D.J. Mackill, and **E.M. Septiningsih***. 2015. A trehalose-6-phosphate phosphatase enhances anaerobic germination tolerance in rice. *Nature Plants* 1(9).
12. **Septiningsih, E.M.***, N. Hidayatun, *D.L. Sanchez*, Y. Nugraha, *J. Carandang*, A.M. Pamplona, B.Y.C. Collard, A.M. Ismail, and D.J. Mackill. 2015. Accelerating the development of new submergence tolerant rice varieties: the case of Ciherang-Sub1 and PSB Rc18-Sub1. *Euphytica* 202:259-268.
13. Kato, Y.*, B.Y.C. Collard, **E.M. Septiningsih**, and A.M. Ismail*. 2014. Physiological analyses of trait associated with tolerance of long-term partial submergence in rice. *Annals of Botany PLANTS* 6: plu058; doi:10.1093/aobpla/plu058.
14. *Baltazar, M.D., J.C.I. Ignacio*, M.J. Thomson, A.M. Ismail, M.S. Mendioro, and **E.M. Septiningsih***. 2014. QTL mapping for tolerance of anaerobic germination from IR64 and the aus landrace Nanhi using SNP genotyping. *Euphytica* 197:251-260.
15. **Septiningsih, E.M.***, B.C.Y. Collard, S. Heuer, J. Bailey-Serres, A.M. Ismail, and D.J. Mackill. 2013. Applying Genomics Tools for Breeding Submergence Tolerance in Rice. In: Varshney RK, Tuberosa R, editors. *Translational Genomics for Crop Breeding: Volume 2-Improvement for Abiotic Stress, Quality and Yield Improvement*. **Wiley-Blackwell Publishers**. USA. p 9-30.

Synergistic Activities/Professional Service:

- Associate Editor, Crop Science Journal (2017-present)
- Member, Editorial Board of Plant Breeding and Biotechnology journal (2015-present)
- Grant review panel (USDA-NIFA: AFRI Foundational 2017, 2018)
- Member, National Association of Plant Breeders
- Member, American Society of Plant Biologist
- Member, Crop Science Society of America
- Life member, Society for the Advancement of Breeding Researches in Asia and Oceania
- Member, International Society of Plant Anaerobiosis
- Member, Science Committee of the 4th International Rice Congress, Bangkok, Thailand
- Member, Local Organizing Committee of the 11th International Conference of International Society of Plant Anaerobiosis, Los Baños, Philippines
- Delivered various short training lectures in IRRI, Philippines (2008-2015)

Research supervision:

- PhD: Advisor (6 → 1 graduated, 5 ongoing); Committee member (6 ongoing); Visiting scholars (2 graduated)
- MS: Advisor (6 → 4 graduated, 2 ongoing); Committee member (3 → 2 graduated, 1 ongoing)
- 3 Post-doctoral Research Fellows (IRRI, Philippines)
- 5 Visiting Fellows (IRRI, Philippines)

Funded grant proposals:

- PI/Co-PI of various projects totaling \$59,172,234, of which \$3,053,957 were for Septiningsih

Honor/Awards:

- Plaque of recognition from IRRI for an outstanding contribution to the development of flood tolerance research in rice through the work on genetics and breeding (2015).
- Plaque of appreciation from IRRI STRASA project for invaluable contribution to rice research and development of flood-prone areas of South Asia and Africa (2015)
- The Rockefeller Foundation graduate student scholarship (1997-2001)
- Outstanding Student in Faculty of Agriculture, Gadjah Madah University, Indonesia (1990)