

Youngjun Mo

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WORK EXPERIENCES

- Mar 2021 – present: Assistant Professor. Department of Crop Science and Biotechnology, Jeonbuk National University (JBNU), Korea
- Dec 2007 – Feb 2021: Research Scientist. National Institute of Crop Science (NICS), Rural Development Administration (RDA), Korea
- Aug 2010 – Feb 2011: Visiting Research Fellow. Plant Breeding, Genetics, and Biotechnology Division, International Rice Research Institute (IRRI), Philippines
- Aug 2007 – Dec 2007: Research Assistant. National Agrobiodiversity Center, RDA, Suwon, Korea

EDUCATION

- Jun 2018: PhD in Horticulture & Agronomy. Dubcovsky Lab, Department of Plant Sciences, University of California, Davis
- Mar 2010: MS in Crop Science and Biotechnology. Seoul National University, Korea
- Aug 2007: BS in Plant Science (cum laude). Seoul National University, Korea

TEACHING EXPERIENCES

- Fall 2016: Guest Lecturer for Plant Genetics (PLS152). Department of Plant Sciences, UC Davis
- Winter 2016: Guest Lecturer for Seminars in Postharvest Biology (PBI 293). Plant Biology Graduate Group, UC Davis
- Fall 2014: Teaching Assistant for Plant Genetics (PLS152). Department of Plant Sciences, UC Davis

SERVICES

- Jan 2017 – May 2017: Admission Committee, Horticulture & Agronomy Graduate Group, UC Davis
- Aug 2014 – Apr 2015: Organizing Committee, UC Davis Plant Breeding Symposium, UC Davis

SELECTED PUBLICATIONS

- Lee JS, Chebotarov D, McNally KL, Pede V, Setiyono TD, Raquid R, Hyun WJ, Jeung JU, Kohli A, **Mo Y** (2021) Novel Sources of Pre-Harvest Sprouting Resistance for Japonica Rice Improvement. *Plants* 10:1709
- Raquid R, Kohli A, Reinke R, Dionisio-Sese M, Kwak J, Chebotarov D, **Mo Y**, Lee JS (2021) Genetic factors enhancing seed longevity in tropical japonica rice. *Current Plant Biology* 26:100196
- Mo Y**, Lee CM, Park HM, Ha SK, Kim MJ, Kwak J, Lee HS, Lee JH, Jeung JU (2021) *Hdl* allele types and their associations with major agronomic traits in Korean rice cultivars. *Plants* 10: 2408
- Mo Y**, Jeong JM, Ha SK, Kim J, Lee C, Lee GP, Jeung JU (2020) Characterization of QTLs and candidate genes for days to heading in rice recombinant inbred lines. *Genes* 11: 957
- Mo Y**, Jeung JU (2020) The use of floury endosperm mutants to develop rice cultivars suitable for dry milling. *Plant Biotechnology Reports* 14: 185-191
- Mo Y**, Pearce S, Dubcovsky J (2018) Phenotypic and transcriptomic characterization of a wheat tall mutant carrying an induced mutation in the C-terminal PFYRE motif of RHT-B1b. *BMC Plant Biology* 18: 253
- Mo Y**, Vanzetti LS, Hale I, Spagnolo EJ, Guidobaldi F, Al-Oboudi J, Odle N, Pearce S, Helguera M, Dubcovsky J (2018) Identification and characterization of *Rht25*, a locus on chromosome arm 6AS affecting wheat plant height, heading time, and spike development. *Theoretical and Applied Genetics* 131: 2021-2035
- Mo YJ**, Howell T, Vasquez-Gross H, de Haro LA, Dubcovsky J, Pearce S (2018) Mapping causal induced mutations by exome sequencing in a wheat TILLING population: a tall mutant case study. *Molecular Genetics and Genomics*. 293: 463-477.
- Mo YJ**, Jeung JU, Shin WC, Kim KY, Ye C, Redoña ED, Kim BK (2014) Effects of allelic variations in starch synthesis-related genes on grain quality traits of Korean nonglutinous rice varieties under different temperature conditions. *Breeding Science*. 64: 164-175.
- Mo YJ**, Jeung JU, Shin YS, Park CS, Kang KH, Lee JS, Kim BK (2013) Agronomic and genetic analysis of Suweon 542, a rice floury mutant line suitable for dry milling. *Rice* 6: 37.
- Mo YJ**, Kim KY, Shin WC, Lee GM, Ko JC, Nam JK, Kim BK, Ko JK, Yu Y, and Yang TJ (2012) Characterization of *Imcrop*, a Mutator-like MITE family in the rice genome. *Genes & Genomics* 34: 189-198.
- Mo YJ**, Kim KY, Park HS, Ko JC, Shin WC, Nam JK, Kim BK, and Ko JK (2012) Changes in the panicle-related traits of different rice varieties under high temperature condition. *Australian Journal of Crop Science* 6: 436-443.

TRAININGS

Aug 2016: Using Galaxy for Analysis of RNA-Seq, Exome Seq, and Variants. UC Davis, CA, USA
Nov 2010: SNP Analysis and Candidate Gene Discovery Training Course. IRRI, Philippines
Oct 2010: Rice Breeding Course. IRRI, Philippines

AWARDS

Jun 2015: Howard Hughes Medical Institute (HHMI)'s International Student Research Fellowship
Mar 2015: Monsanto's Beachell-Borlaug International Scholars Program (MBBISP)
May 2014: Henry A. Jastro Research Award. Horticulture & Agronomy Graduate Group, UC Davis
Jul 2013: Korean Government Long-term Fellowship for Overseas Studies
Jul 2011: Excellent Presentation Award. The Korean Society of Breeding Science
Mar 2007: Full Scholarship for Academic Excellence. Seoul National University, Korea