**Curriculum Vitae**

**(Last updated: 2017-12-05)**



**FULL NAME:** Dae-Jin Yun

**AFFILIATION:** Department of Biomedical Science & Engineering,

Konkuk University, Korea

(Joint Lab) Center for Plant Environmental Stress Physiology

Purdue University

**EDUCATION AND CAREER**

1994 Ph.D. Kyoto University

1994-1998 Postdoc., Purdue University

1998-2017.2 Professor, Gyeongsang National University

2017-present Professor, Konkuk University

**Research Interests**

Abiotic stress signaling in plant

**Awards**

2005 Distinguished Professor Award, Gyeongsang National University

2009 Best Research Award, Korean Society of Plant Biologists

2012 Best Academic Award, Korean Society of Plant Biotechnology

2013 Special Contribution Award, Gyeongsang National University

2014 Best Research Paper Award, Korean Federation of Science &Technology Societies

2015 Macrogen Scientist Award

**HOnor**

2013- Member, Korea Academy of Science and Technology

**Experience**

2008-2012 Director, Plant Molecular & Biotechnology Research Center of GNU

2008-2013 Director, World Class University Program

2013- Director, Brain Korea (BK21) plus program

2013-2014 Vice President, Korean Society of Plant Biologist

2013-2017.2 Head, Division of Applied Life Science

2017.6- Director, Global Research Lab (Supported by NRF)

**Organizer (INTERNATIONAL Conference)**

2006 Korea-Japan Plant Biotechnology Symposium

2008 Korea-Germany (Max Planck Institute) Plant Science Symposium

2010 Korea-Germany (Max Planck Institute) Plant Science Symposium

2011 UNCCD International conference on Desertification

2012 GNU Plant Science Symposium

2013 5Th Asian Symposium on Plant Lipids and 2013 Annual Conference of the Korean Society of Plant Biologist (KSPB)

2014 International Symposium on Plant Science (KSPB)

**Editor**

2001-2002 Korean Journal of Life Science

2002-2003 Journal of Plant Biotechnology

2013- Journal of Plant Biology

2015- Molecules & Cells

**Invited Speaker**

2002 Gordon Research Conference, Oxford, UK

2003 Keystone Symposia, Snowbird, Utah, USA

2014 1st National Symposium of Plant Stress Biology, Xian, china

2014 International conference on Arabidopsis Research, Vancouver, Canada

2015 International conference on plant stress response, Beijing, China

2016 International conference on Arabidopsis Research, Gyeongju, Korea

2017 RIKEN Plant Stress Symposium, Yokohama, Japan

2017 XIX International Botanical Congress, Shenzhen, China

2017 1st KU Plant Science Symposium, Seoul, Korea

**SEMINAR at FOREIGN INSTITUTION**

University of Tokyo (2000); RIKKEN (2000); Institute of Basic Biology (2000), Japan; NAIST (2001); Edinburgh University, (2002); University of California, Berkerly (2003); Tesax A&M University (2004); Ohio State University (2004); Kyoto University (2004); Hokkaido University (2006); Missouri-Columbia University (2007); University of Maryland (2012); NAIST (2013); Kyoto University (2013); Missouri-Columbia University (2013); University of Malaga, Spain (2013); Instituto de Rescurso s Natuurales Y Agrobiologia, Spain (2013); University of Chicago (2013); University of Arizona (2014); China Agriculture University (2014); University of Tokyo (2014);University of California, Riverside (2014); University of Copenhagen, Denmark (2014); AS-BCST, Taiwan (2014); Louisiana State University (2015);Texas A&M University (2015); Purdue University (2015); NAIST, Japan (2015);CMB-CSIC, Spain (2015);NCUE, Taiwan (2015); Kyoto University (2016), NAIST, Japan (2017), University of Washington (2017)

**MAJOR ACHIEVEMENT for INTERNATIONAL COLLABORATION**

Establishment of (GNU) branch lab at Purdue University (2003); Establishment of double Degree Program between GNU and Purdue University (2005), Missouri-Columbia University (2006), Copenhagen University (2014)

**PUBLICATION LIST (Peer-Reviewed Articles) *h*-index: 50, total citation:7,028**

193. Ali A. and Yun DJ (2017) Salt stress tolerance; what do we learn from halophytes. ***J. Plant Biol.*** 60:431-439.

192. Cho S, Yu SI, Park J, Mao Y, Zhu JK, Yun DJ, Lee BH (2017) Accession-dependent CBF gene deletion by CRISPR/Cas system in Arabidopsis. ***Front Plant Sci.*** 8:1910

191. Beak D, Chun HJ, Yun DJ, Kim MC (2017) Cross-talk between phosphate starvation and other environmental stress signaling pathways in pant***. Mol Cells*** 40:697-705

190. Nawkar GM, Kang CH, Maiban P, Park JH, Yung YJ, Chae HB, Chi YH, Jung IJ, Kim WY, Yun DJ, Lee SY (2017) HY5, a positive regulator of light signaling, negatively controls the unfolded protein response in Arabidopsis. ***Proc. Natl. Acad. Sci. USA*** 114:2084-2089

189. Kumar D, Kumar R, Baek D, Hyun TK, Chung WS, Yun DJ, Kim JY (2017) Arabidopsis RECEPTOR DEAD KINASE1 functions as a positive regulator in plant response to ABA. ***Molecular Plant*** 10:223-243.

188. Ke Q, Kim HS, Zhi W, Ji CY, Jeong JC, Lee HS, Choi YI, Su B, Deng X, Yun DJ, and Kwak SS (201**7**) Down-regulation of GIGANTEA-like genes increases plant growth and salt tolerance in poplar. ***Plant Biotechnology Journal*** 15:331-343

187. Jeong MS, Kim SW and Yun DJ (2016) The biological function of NPR1 in response to biotic and abiotic stress. ***J. Plant Biotech.*** 43:281-292

186. Park HJ, Kim WY, Pardo JM, and Yun DJ (2016 ) Molecular interaction between flowering time and abiotic stress pathways. *International Review of Cell and Molecular Biology* 327:371-412

185. Park HJ, Quing Z, Kim WY, and Yun DJ. (2016) Diurnal and circadian regulation of salt tolerance in Arabidopsis. ***Journal of Plant Biology*** 59:569-578

184. Liao CJ, Lai Z, Lee S, Yun DJ, and Mengiste T (2016) Arabidopsis HOOKLESS1 regulates responses to pathogens and abscisic acid through interaction with MED18 and acetylation of WRKY33 and ABI5 chromatin. *Plant Cell* 28:1662-1681

183. Ali A, and Yun DJ (2016) Differential selection of sodium and potassium ions by TsHKT1:2. *Plant Signal Behav*. 11:e1206169.doi:10.1080

182. Liao CJ, Lai Z, Lee S, Yun DJ, Mengiste T (2016) Arabidopsis HOOKLESS1 regulates responses to pathogens and abscisic acid through interaction with MED18 and acetylation of WRKY33 and ABI5 chromatin. *Plant Cell* 28:1662-1681

181. Ali A, and Yun DJ (2016) Differential selection of sodium an potassium ions by TsHKT1:2. *Plant Signal Behav*. 11:e1206169.doi:10.1080

180. Lee S, Fu F, Xu S, Lee SY, Yun DJ, and Mengiste T (2016) Global regulation of plant immunity by histone lysine methyl transferases. *Plant Cell* 28:1640-1661

179. Ali A, Raddatz N, Aman R, Kim S, Park HC,Jan M, Baek D, Khan IU, Oh DH, Lee SY,Bressan RA, Lee KW, Maggio A, Pardo JM, Bohnert HJ, and Yun DJ (2016) A single amino-acid substitution in the sodium transporter HKT1 associated with plant salt tolerance. *Plant Physiology* 171:2112-2126.

178. Park HJ, Kim WY, and Yun DJ (2016) A new insight of salt stress signaling in plant. *Mol & Cells* 39:447-459

177. Cha JY, Kim MR, Jung IJ, Kang SB, Park HJ, Kim MG, Yun DJ, and Kim WY (2016) The thiol reductase activity of YUCCA6 mediates delayed leaf senescence by regulating genes involved in auxin redistribution. *Front. Plant Sci.* 7:626

176. Lin XL, Niu, Hu ZL, Kim DH, Jin YH, Cai B, Liu P, Miura K, Yun DJ, Kim WY, Lin R, Jin JB. (2016) An Arabidopsis SUMO E3 Ligase, SIZ1, Negatively Regulates Photomorphogenesis by Promoting COP1 Activity. *PLOS Genetics* 12(4):e1006016. doi: 10.1371/journal.pgen.1006016

175. Kang CH, Lee YM, Nawkar GM, Oh HT, Kim MG, Kim WY, Yun DJ, and Lee SY (2016) Ribosomal P3 protein AtP3B of Arabidopsis acts as both protein and RNA chaperone to increase tolerance of heat and cold stresses. *Plant Cell Environ.* 39:1631-1642.

174. Khan A, Hossain MT, Park HC, Yun DJ, Shim SH, Chung YR (2016) Development of root system architecture of Arabidopsis thaliana in response to colonization of Martelella endophytica YC6887 depend on auxin signaling. *Plant and Soil* 405:81-96

173. Nguyen XC, Kim HS Hussain S, An J, YooY, Han HJ, Yoo JS, Lim CO, Yun DH and Chung WS (2016) A positive transcription factor in osmotic stress tolerance, ZAT10, is regulated by MAP Kinase in Arabidopsis. *J. Plant Biol.* 59:55-61.

172. Baek D, Chun HJ, Kang S, Shin G, Park SJ, Hong H, Kim C, Kim DH, Lee SY, Kim MC, and Yun DJ (2016) A role of Arabidopsis miR399f in salt, drought, and ABA signaling. *Mol. Cells* 39:111-118.

171. Baek D, Cha JY, Kang S, Park B, Lee HJ, Hong H, Chun HJ, Kim DH, Kim MC, Lee SY and Yun DJ (2015) The Arabidopsis a zinc finger domain protein ARS1 is essential for seed germinatin and ROS homeostasis in response to ABA and oxidative stress. *Front. Plant Sci.* 6:963.

170. Jung YJ, Melencion SMB, Lee ES, Park JH, Alinapon CV, Oh HT, Yun DJ, Lee SY (2015) Universal stress protein exhibits a redox-dependent chaperone function in Arabidopsis and enhances plant tolerance to heat shock and oxidative stress. *Front. Plant Sci.* 6:1141.

169. Cha JY, Kim WY, Kang SB, Kim JI, Baek D, Jung IJ,Kim MR, Li R, Kim HJ, Nakajima M, Asami T, Sabir J, Park HC, Lee SY, Bohnert HJ, Bressan RA, Pardo JM, and Yun DJ (2015) A novel thiol-reductase activity of Arabidopsis YUC6 confers drought tolerance independently of auxin biosynthesis. *Nature Communications 6:8041*

168. Kang CH, Lee SY, Park JH, Lee Y, Jung HS, Jung YJ, Chae HB, Shin MR, Kim WY, Yun DJ, and Lee SY (2015) Stress-driven structural and functional swithching of Ypt1p from a GTPase to a molecular chaperone mediates thermo tolerance in Saccaromyces cerevisiae. *FASAB J.* *29:4424-4434*

167. Qiguang Xie, Ping Lou, Victor Hermand, Rashid Aman, Park HJ, Yun DJ, Kim WY, Matti Juhani Salmela, Brent E. Ewers, Cynthia Weinig, Sarah L. Khan, D. Loring P. Schaible and C. Robertson McClung (2015) Allelic polymorphism of GIGANTEA is responsible for naturally occurring variation in circadian period in Brassica rapa. ***Proc Natl Acad Sci USA***, 112(12):3829-34

166. Jing Li, Juntao Liu, Guoqiang Wang, Cha JY, Guannan Li, She Chen, Zhen Li, Jinghua Guo, Caiguo Zhang, Yongqing Yang, Kim WY, Yun DJ, Karen S. Schumaker, Zhongzhou Chen and Yan Guoah (2015) A Chaperone Function of NO CATALASE ACTIVITY1 Is Required to Maintain Catalase Activity and for Multiple Stress Responses in Arabidopsis. ***The Plant Cell***. 27(3):908-25

165. Park HC, Lee SY, Park BK, Choi WK, Kim CM, Lee SH, Chung WS, Lee SY, Jamal Sabir, Ray A. Bressan, Hans J. Bohnert, Tesfaye Mengiste, Yun DJ (2015) Pathogen Associated Molecular Pattern (PAMP)-Triggered Immunity Is Compromised under C-Limited Growth. ***Molecules and Cells*** 38:40-50

164. Yingfang Zhu, Craig M.Schluttenhoffer, Pengcheng Wang, Fuyou Fu, Jyothi Thimmapuram, Jian-Kang Zhu, Lee SY, Yun DJ, Tesfaye Mengiste (2014) CYCLIN-DEPENDENT KINASE8 Differentially Regulates Plant Immunity to Fungal Pathogens through Kinase-Dependent and –Independent Functions in Arabidopsis. ***The Plant Cell***. 26:1-22.

163. Liu XM, An J, Han HJ, Kim SH, Lim CO, Yun DJ, Chung WS (2014) ZAT11, a zinc finger transcription factor, is a negative regulator of nickel ion tolerance in Arabidopsis. (2014) ***Plant Cell Rep*** 33:2015-2021

162. Baek DW, Choi WK, Kang SH, Shin GO, Park SJ, Kim CM, Park HC, Yun DJ (2014) Screening of salt-tolerance plants using transgenic Arabidopsis that express a salt cress cDNA library ***J. Plant Biotech***. 41.81-88

161. Cha JY, Kim JY, Jung IJ, Kim MR, A Melencion, SS Alam, Yun DJ, Lee SY, Kim MG, Kim WY (2014) NADPH-dependent thioredoxin reductase A (NTRA) confers elevated tolerance to oxidative stress and drought. ***Plant Physiology and Biochemistry*** 80 (2014) 184-191

160. Yang WT, Baek DW, Yun DJ, Hwang WH, Park DS, Nam MH, Chung ES, Chung YS, Yi YB, Kim DH (2014) Overexpression of OsMYB4P, an R2R3-type MYB transcriptional activator, increases phosphate acquisition in rice. ***Plant Physiology and Biochemistry*** 80(2014) 259-267

159. MI Naseer, I Ullah, ML Narasimhan, HY Lee, RA Bressan, GH Yoon, DJ Yun and MO Kim (2014) Neuroprotective effect of osmotin against ethanol-induced apoptotic neurodegeneration in the developing rat brain. ***Cell Death and Disease*** 5:e1150.

158. Oh DH, Hong HW, Lee SY, Yun DJ, Bohnert HJ, Dassanayake M (2014) Genome structures and transcriptomes signify niche adaptation for the multi-ion tolerant extremophyte Schrenkiella parvula. ***Plant Physiol*** 164(4):2123-38

157. SA Shah, HY Lee, RA Bressan, DJ Yun and MO Kim (2014) Novel osmotin attenuates glutamate-induced synaptic dysfunction and neurodegeneration via the JNK/PI3K/Akt pathway in postnatal rat brain. ***Cell Death and Disease*** 5:e1026.

156. Zhibing Lai, Craig M. Schluttenhoffer, Ketaki Bhide, Jacob Shreve, Jyothi Thimmapuram, Lee SY , Yun DJ & Tesfaye Mengiste (2014) MED18 interaction with distinct transcription factors regulates multiple plant functions. ***Nature Communications*** 5:3064.

155. Jung YJ, Chi YH, Chae HB, Shin MR, Lee ES, Cha JY, Paeng SK, Lee YO, Park JH, Kim WY, Kang CH, Lee KO, Lee KW, Yun DJ, Lee SY (2013) Analysis of Arabidopsis thioredoxin-h isotypes identifies discrete domains that confer specific structural and functional properties. ***Biochem J***, 456(1):13-24

154. Park HC, Han HJ, Lee SM, Yun DJ and Chung WS (2013) ASYMMETRIC LEAVES1 is phosphorylated by MPK3/6 in Arabidopsis thaliana. ***Journal of Plant Biology***, 56:208-215

153. Aouida M, Kim K, Shaikh AR, Pardo JM, Eppinger J, Yun DJ, Bressan RA, Narasimhan ML (2013) A Saccharomyces cerevisiae Assay System to Investigate Ligand/AdipoR1 Interactions That Lead to Cellular Signaling. ***PLoS ONE***, 8(6):e65454

152. Ail A, Park HC, Aman R, Ail Z, Yun DJ (2013) Role of HKT1 in Thellungiella salsuginea, a Model Extremophile Plant. ***Plant Signal Behav***. 8:(8) e25196

151. Zhou XF, Jin YH, Yoo CY, Lin XL, Kim WY, Yun DJ, Bressan RA, Haseqawa PM, Jin JB (2013) CYCLIN H;1 Regulates Drought Stress Responses and Blue Light-Induced Stomatal Opening by Inhibiting ROS Accumulation in Arabidopsis. ***Plant Physiol***. 162(2) : 1030-41.

150. Park HJ, Park HC, Choi J, Choi W, Chung WS, Kim S, Yun DJ (2013) Identification of SUMO-modified Proteins by Affinity Purification and Tandem Mass Spectrometry in Arabidopsis thaliana. ***J. Plant Biol*** 56: 176-185

149. Park HJ, Kim WY, Yun DJ (2013) A role for GIGANTEA Keeping the balance between flowering and salinity stress tolerance. ***Plant Signal Behav***. 8:(7) e24820

148. Park HC, Cha JY, Yun DJ (2013) Roles of YUCCAs in auxin biosynthesis and drought stress responses in plants. ***Plant Signal Behav***. 8:6 e24495

147. Park HJ, Yun DJ (2013) SUMO Proteins Grapple with Biotic and Abiotic Stresses in Arabidopsis. ***J. Plant Biol*** 56:77-84

146. Baek D, Park HC, Kim MC, Yun DJ (2013) The role of Arabidopsis MYB2 in miR399f-mediated phosphate-starvation response. ***Plant Signal Behav***. 18:8(3)

145. Bressan RA, Park HC, Francesco Orsini, Oh DH, Maheshi Dassanayake, Inan G, Yun DJ, Hans J. bohnert, Albino Maggio.(2013) Biotechnology for mechanisms that counteract salt stress in extremophile species: a genome-based view. ***Plant Biotechnol Rep***. 7:23-37

144. Park HJ, Yun DJ (2013) New Insights into the Role of the Small Ubiquitin-like Modifier (SUMO) in Plants. ***International Review of Cell and Molecular Biology***. 300:161-209

143. Liu XM, Nquyen XC, Kim KE, Han HJ, Lee K, Yun DJ, Chung WS (2013) Phosphorylation of the zinc finger transcriptional regulator ZAT6 by MPK6 regulates Arabidopsis seed germination under salt and osmotic stress. ***Biochem Biophys Res Commun***. 430(3):1054-9

142. Kim WY, Zahir Ali, Park HJ, Park SJ, Cha JY, Javier Perez-Hormaeche, Francisco Javier Quinter, Shin G, Kim MR, Zhang Qiang, Li Ning, Park HC, Lee SY, Ray A. Bressan, Jose M. Pardo, Hans J. Bohnert & Yun DJ (2013) Release of SOS2 kinase from sequestration with GIGANTEA determines salt tolerance in Arabidopsis. ***Nature Communications*** 15;4:1352.

141. Baek D, Kim MC, Chun HJ, Kang S, Park HC, Shin G, Park J, Shen M, Hong H, Kim WY, Kim DH, Lee SY, Bressan RA, Bohnert HJ, Yun DJ(2013) Regulation of miR399f transcription by tMYB2 affects phosphate-starvation responses in Arabidopsis. ***Plant Physiol***. 161(1):362-73.

140. Chae HB, Moon JC, Shin MR, Chi YH, Jung YJ, Lee SY, Nawkar GM, Jung HS, Hyun JK, Kim WY, Kang CH, Yun DJ, Lee KO, Lee SY.(2013) Thioredoxin Reductase Type C (NTRC) Orchestrates Enhanced Thermotolerance to Arabidopsis by Its Redox-Dependent Holdase Chaperone Function. ***Mol Plant***. 6(2):323-36.

139. Chun HJ, Park HC, Koo SC, Lee JH, Park CY, Choi MS, Kang CH, Baek D, Cheong YH, Yun DJ, Chung WS, Cho MJ, Kim MC.(2012) Constitutive expression of mammalian nitric oxide synthase in tobacco plants triggers disease resistance to pathogens. ***Mol Cells***. 34(5):463-71

138. Kim JI, Baek D, Park HC, Chun HJ, Oh DH, Lee MK, Cha JY, Kim WY, Kim MC, Chung WS, Bohnert HJ, Lee SY, Bressan RA, Lee SW, Yun DJ (2013) Overexpression of Arabidopsis YUCCA6 in potato results in high-auxin developmental phenotypes and enhanced resistance to water deficit. ***Mol Plant*** . 6(2):337-49.

137. Kim HS, Park HC, Kim KE, Jung MS, Han HJ, Kim SH, Kwon YS, Bahk S, An J, Bae DW, Yun DJ, Kwak SS, Chung WS (2012) A NAC transcription factor and SNI1 cooperatively suppress basal pathogen resistance in Arabidopsis thaliana. ***Nucleic Acids Res***. 40(18):9182-92.

136. Xu ZY, Lee KH, Dong T, Jeong JC, Jin JB, Kanno Y, Kim DH, Kim SY, Seo M, Bressan RA, Yun DJ, Hwang I.(2012) A Vacuolar β-Glucosidase Homolog That Possesses Glucose-Conjugated Abscisic Acid Hydrolyzing Activity Plays an Important Role in Osmotic Stress Responses in Arabidopsis.  ***Plant Cell***. 24(5):2184-99.

135. Hoang MH, Nguyen XC, Lee K, Kwon YS, Pham HT, Park HC, Yun DJ, Lim CO, Chung WS (2012) Phosphorylation by AtMPK6 is required for the biological function of AtMYB41 in Arabidopsis. ***Biochem Biophys Res Commun***. 422(1):181-6

134. Han HJ, Park HC, Byun HJ, Lee SM, Kim HS, Yun DJ, Cho MJ, Chung WS (2012) The transcriptional repressor activity of ASYMMETRIC LEAVES1 is inhibited by direct interaction with calmodulin in Arabidopsis. ***Plant Cell Environ***. 35(11):1969-82.

133. Lee S, Park HC, Bae S, Hong J, Choi J, Hong K, Jhun H, Kim K, Kim E, Jo S, Kim WY, Yun DJ, Kim S (2012) Monoclonal antibodies against recombinant AtHOS15. ***Hybridoma*** (Larchmt), 31(2):118-24.

132. Ali Z, Park HC, Ali A, Oh DH, Aman R, Kropornicka A, Hong H, Choi W, Chung WS, Kim WY, Bressan RA, Bohnert HJ, Lee SY, Yun DJ. (2012) TsHKT1;2, a HKT1 homolog from the extremophile Arabidopsis-relative Thellungiella salsuginea, shows K+-specificity in the presence of NaCl. ***Plant Physiol***. 158(3):1463-1474.

131. Kim SY, Jung YJ, Shin MR, Park JH, Nawkar GM, Maibam P, Lee ES, Kim KS, Paeng SK, Kim WY, Lee KO, Yun DJ, Kang CH, Lee SY.(2012) Molecular and functional properties of three different peroxiredoxin isotypes in Chinese cabbage, ***Mol Cells***. 33(1):27-33.

130. Park HC, Koo SC, Kim H, Choi W, Yun DJ (2012) Characterization of small ubiquitin-like modifier E3 ligase, OsSIZ1, mutant in rice. ***J. Plant Biotech***.39.235-241

129. Park HC, Park J, Baek D, Yun DJ (2011) Functional characterization of Arabidopsis thaliana BLH8, BEL1-Like Homeodomain 8 involved in environmental stresses. ***J. Plant Biotech***.38.162-168

128. Chun HJ, Park HC, Goo YM, Kim TW, Cho KS, Cho HS, Yun DJ, Chung WS, Lee SW (2011) AtCBP63, a Arabidopsis Calmodulin-binding Protein 63, Enhances Disease Resistance Against Soft Rot Disease in Potato. ***J. Plant Biotech***. 38.62-68

127. Kim WY, Lee SY, Jung YJ, Chae HB, Nawkar GM, Shin MR, Kim SY, Park JH, Kang CH, Chi YH, Ahn IP, Yun DJ, Lee KO, Kim YM, Kim MG, Lee SY.(2011) Inhibitor of apoptosis (IAP)-like protein lacks a baculovirus IAP repeat (BIR) domain and attenuates cell death in plant and animal systems, ***J Biol Chem***.286(49):42670-8

126. Hur YJ, Yi YB, Lee JH, Chung YS, Jung HW, Yun DJ, Kim KM, Park DS, Kim DH.(2011) Molecular cloning and characterization of OsUPS, a U-box containing E3 ligase gene that respond to phosphate starvation in rice (Oryza sativa). ***Mol Biol Rep***. 39(5):5883-5888

125. Park HJ, Kim WY, Park HC, Lee SY, Hans J. Bohnert and Yun DJ (2011) SUMO and SUMOylation in Plants, ***Mol. Cells*** 32:305-316

124. Park HJ, Park HC, Lee SY, Hans J. Bohnert, Yun DJ (2011),Ubiquitin and ubiquitin-like modifiers in plants, Journal of Plant Biology. 54:275-285

123. An CH, Kim YH, Park SC, Jeong JC, Lee HS, Choi YI, Noh EW, Yun DJ, Kim SB, Kwak SS (2011),transgenic poplar expressing AtNDPK2 exhibits engansced biomass in the LMO field, ***J Plant Biotechnol***. 38:228-233

122. Dassanayake M, Oh DH, Haas JS, Hernandez A, Hong H, Ali S, Yun DJ\*, Bressan RA, Zhu JK, Bohnert HJ, Cheeseman JM.(2011) The genome of the extremophile crucifer Thellungiella parvula. ***Nature Genetics***, 43(9):913-918. \* (co-corresponding author)

121. Gao Sheng Hu, Jing Ming Jia, Hur YJ, Chung YS, Lee J, Yun DJ, Chung WS, Yi GH, Kim TH, Kim DH (2011) Molecular characterization of phenylalanine ammonia lyase gene from Cistanche deserticola, ***Mol Biol Rep***, 38(6):3741-3750

120. Park JH, Lee SY, Kim WY, Jung YJ, Chae HB, Jung HS, Kang CH, Shin MR, Kim SY, Mukhamad Su’udi, Yun DJ, Lee KO, Kim MG and Lee SY (2011) Heat-induced chaperone activity of serine threonineprotein phosphatase 5 enhances thermotolerance inArabidopsis thaliana, ***New Phytologist***, 191(3):692-705

119. Kim MD, Kim YH, Kwon SY, Jang BY, Lee SY, Yun DJ, Cho JH, Kwak SS, Lee HS (2011) Overexpression of 2-cysteine peroxiredoxin enhances tolerance to methyl viologen-mediated oxidative stress and high temperature in potato plants, ***Plant Physiology and Biochemistry***, 49(8):891-897

118. Park HC, Choi W, ParK HJ, Cheong MS, Koo YD, Shin G, Chung WS, Kim WY, Kim MG, Ray A. Bressan, Hans J. Bohnert, Lee SY and Yun DJ (2011) Identification and Molecular Properties of SUMO-Binding Proteins in Arabidopsis, ***Molecules and Cells***, 32:143-151

117. Park HC, Song EH, Xuan Canh Nguyen, Lee K, Kim KE, Kim HS, Lee SM, Kim SH, Baek DW, Yun DJ, Chung WS (2011), Arabidopsis MAP kinase phosphatase 1 is phosphorylated and activated by its substrate AtMPK6, ***Plant Cell Reports***, 30(8):1523-1531

116. Kim JI, Angus S. Murphy, Baek D, Lee SW, Yun DJ, Ray A. Bressan and Meena L. Narasimhan(2011),YUCCA6 over-expression demonstrates auxin function in delaying leaf senescence in Arabidopsis thaliana, ***Journal of Experimental Botany***, 62(11):3981-3992. [IF=5.1]

115. Park J, Lee HJ, Cheon CI, Kim SH, Hur YS, Auh CK, Im KH, Yun DJ, Lee S, Keith R. Davis (2011),The Arabidopsis thaliana Homeobox Gene ATHB12 IsInvolved in Symptom Development Caused by Geminivirus Infection, ***PLoS ONE***, 6(5):e20054

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113. Kim YH, Kim MD, Choi YI, Park SC, Yun DJ, Noh EW, Lee HS and Kwak SS (2011), Transgenic poplar expressing Arabidopsis NDPK2enhances growth as well as oxidative stress tolerance, ***Plant Biotechnology Journal***, 9:334-347

112. Chi YH, Xiangfeng Jing, Jiaxin Lei, Ahn JE, Koo YD, Yun DJ, Lee SY, Spencer T. Behmer, Hisashi Koiwa, Keyan ZhuSalzman (2011),Stability of AtVSP in the insect digestive canal determines its defensive capability, ***Journal of Insect Physiology***, 57:391-399

111. Ray A. Bressan, Muppala P. Reddy, Chung SH, Yun DJ, Lowell S. Hardin, Hans J. Bohnert (2011), Stress-adapted extremophiles provide energy without interference with food production, ***Food Security*** , 3:93-105

110. Francisco J. Quinteroa, Juliana Martinez-Atienzaa, Irene Villaltaa, Xingyu Jianga, Kim WY, Zhair Alib, Hiroaki Fujiic, Imelda Mendozaa, Yun DJ, Jian-Kang Zhuc and Jose M. Pardoa(2011), Activation of the plasma membrane Na/H antiporter Salt-Overly-Sensitive 1 (SOS1) by phosphorylation of an auto-inhibitory C-terminal domain, ***Proc Natl Acad Sci USA***, 108(6): 2611-2616.

109. Chi YH, Ahn JE, Yun DJ, Lee SY, Tong-Xian Liu, Keyan Zhu-Salzman (2011), Changes in oxygen and carbon dioxide environment alter gene expression of cowpea bruchids, ***Journal of Insect Physiology***, 57(1):220-30

108. Choi W, Baek D, Oh DH, Park J, Hong H, Kim WY, Hans J. Bohnert , Ray A. Bressan, Park HC, Yun DJ (2011), NKS1, Na+- and K+-sensitive 1, regulates ion homeostasis in an SOS-independent pathway in Arabidopsis. ***Phytochemistry***, 72:330-336

107. Kim HS, Kim SJ, Nazia Abbasi, Ray A. Bressan, Yun DJ, Yoo SD, Kwon SY and Choi SB (2010), The DOF transcription factor Dof5.1 influences leaf axial patterning by promoting Revoluta transcription in Arabidopsis, ***The Plant Journal***, 64, 524–535.

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