

Curriculum Vitae

Yong Gu Cho, Ph.D.

Professor
Plant Breeding and Molecular Genetics



Address

Business Address in Korea: Department of Crop Science, College of Agriculture, Life and Environment Sciences, Chungbuk National University, 1 Chungdae-ro, Seowon-gu, Chongju 28644, Republic of KOREA,

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Education

Ph.D., Dept. of Agronomy, Seoul National University, Seoul, Korea, Aug. 1992.

Dissertation: "Genetics of esterase isozyme and RFLP markers, and their linkage with a semidwarf gene (*sd-1*) in rice (*Oryza sativa L.*)"

Major professor: Dr. Young Am Chae

M.S., Dept. of Agronomy, Seoul National University, Seoul, Korea, Aug. 1985.

Thesis: "Estimation of optimum leaf area index and growth analysis in rice (*Oryza sativa L.*)"

Major professor: Dr. Eun Woong Lee

B. S., Dept. of Agronomy, Chungbuk National University, Chongju, Korea, Feb. 1980.

Professional Experiences

Mar. 1998-Present: Assistant, Associate, and Full professor, Department of Crop Science, College of Agriculture, life and Environment Sciences, Chungbuk National University, Cheongju, Korea

Sept. 2008-Present: Adjunct professor, Dept. of Plant Breeding & Genetics, Cornell University, USA

Jan. 2013-Present: Editor-in-Chief, Plant Breeding and Biotechnology (PBB) journal, <http://www.plantbreedbio.org/>

Jan. 2017- Present: Advisory committee member, The Korean Society of Breeding Science

Feb. 2016-Feb. 2022: Board member, The Korean Association of Societies for Agriculture, Food and Life Sciences

Jan. 2016-Dec. 2016: President, The Korean Society of Breeding Science

Sept. 2014- 2015: Chair, Organizing Committee for the Joint Symposium of the Korean Society of Breeding Science-Next Generation 21 Program-Golden Seed Project

Jan. 2011- 2015: Vice President of the Korean Society of Breeding Science.

Jan. 2007- Dec. 2007: Chair, Organizing Committee for the 6th Osong International Bio-Symposium and the International Symposium of the Korean Association of Societies for Plant Science on “Emerging Plant Biotechnology Trends and Industrial Implications” in November, 2007

Jan. 2004- Aug. 2008: Visiting Professor, Dept. of Plant Breeding & Genetics, Cornell University

Jun. 2003 - Aug. 2003: Visiting Professor, Department of Plant Breeding, Cornell University

Jan. 2002 - Feb. 2002: Visiting Professor, CAMBIA, Center for the Application of Molecular Biology to International Agriculture

Jun. 2001 - Aug. 2001: Visiting Professor, CAMBIA, Center for the Application of Molecular Biology to International Agriculture

Jun. 1995 - Dec. 2001: Career fellow supported by the Rockefeller Foundation, visited as a Career fellow, Department of Plant Breeding, Cornell University for three months every year

Mar. 2001 - Feb. 2003: Chair, Department of Crop Science, College of Agriculture, Chungbuk National University, Cheongju, Korea

Dec. 1994 – Feb. 1998: Researcher, National Institute of Agri. Science & Technology, Suwon, Korea

Sept. 1992 – Sept. 1994: Postdoctoral fellow, Department of Plant Breeding, College of Agriculture & Life Sciences, Cornell University, USA

Dec. 1991 – Dec. 1994: Researcher, Institute of Agricultural Biotechnology, Suwon, Korea

Mar. 1985 – Dec. 1991: Researcher, Institute of Agricultural Science & Technology, Suwon, Korea

Research Area

1. Functional analysis of useful genes and breeding new varieties based on CRISP/Cas9 technology in rice
2. Development of value-added high eating quality rice varieties by molecular breeding technology based on high-throughput Marker-Assisted Backcrossing (MAB)

3. Development of new varieties with genes related to eating & processing quality of brown rice through GWAS analysis and MAB technique
4. Functional genomics based on “Gain-of-Function” and “Loss-of-Function” with FOX-hunting system, TALEN, ZFN, AS, RNAi, and CRISPR/CAS9 gene editing system
5. Identification of transcription factors require for RC-mediated regulation of DFR promoter in proanthocyanidin biosynthesis
6. Functional analysis of genes related to starch biosynthesis and development of high quality rice varieties
7. Gene isolation of agronomic importance and transformation to develop new varieties in rice.
8. Development of DNA markers for molecular breeding and fine mapping for map-based gene cloning

< Selected Publications >

- Marjohn C. Niño, Kwon Kyoo Kang, **Yong-Gu Cho** (2020) Genome-wide transcriptional response of papain-like cysteine protease-mediated resistance against *Xanthomonas oryzae* pv. *oryzae* in rice. *Plant Cell Reports* 39: 457-472.
- Marjohn C. Niño, Franz Marielle Nogoy, Me-Sun Kim, Kwon Kyoo Kang, **Yong-Gu Cho** (2020) Functional characterization of papain-like cysteine proteases genes in rice. *Plant Biotechnology Reports*. 14:69-87.
- Hyo Ju Lee, Yu Jin Jung, Sang Su Bae, Jong Hee Kim, Dong Hyen Kim, Hee Kyoung Kim, Ki Hong Nam, Franz Marielle Nogoy, **Yong-Gu Cho**, Kwon Kyoo Kang (2019) Acquisition of seed dormancy breaking in rice (*Oryza sativa* L.) via CRISPR/Cas9-targeted mutagenesis of *OsVP1* gene. *Plant Biotechnology Reports* 13: 511-520.
- Hyo Ju Lee, Sang Su Bae, Jong Hee Kim, Dong Hyen Kim, Hee Kyoung Kim, **Yong-Gu Cho**, Kwon Kyoo Kang, Yu Jin Jung (2019) CRISPR-Cas9 targeted mutagenesis of F3'H, DFR and LDOX genes related to anthocyanin biosynthesis in black rice (*Oryza sativa* L.). *Plant Biotechnology Reports* 13: 521-531.
- Me-Sun Kim, Sothea Ouk, Kuk-Hyun Jung, Yoohan Song, Le Van Trang, Ju-Young Yang, **Yong-Gu Cho** (2019) Breeding hybrid rice with genes resistant to diseases and insects using Marker-Assisted Selection and evaluation of biological assay. *Plant Breed. Biotech.* 7(3):272~286.
- Franz Marielle Nogoy, Yu Jin Jung, Kwon Kyoo Kang, **Yong-Gu Cho** (2019) Physico-chemical characterization and transcriptome analysis of 5-methyltryptophan resistant lines in rice. *PLoS One* 14(9): e0222262. <https://doi.org/10.1371/journal.pone.0222262>

- Franz Marielle Nogoy, Marjohn C. Niño, Jae Young Song, Yu Jin Jung, Kwon Kyoo Kang, Illsup Nou, **Yong-Gu Cho** (2018) Plant microRNAs in molecular breeding. *Plant Biotechnology Reports* 12: 15-25.
- Yu Jin Jung, Franz Marielle Nogoy, Sang-Kyu Lee, **Yong-Gu Cho**, Kwon Kyoo Kang (2018) Application of ZFN for Site Directed Mutagenesis of Rice SSIVa Gene. *Biotechnology and Bioprocess Engineering* 23: 108-115.
- Marjohn C. Niño, Franz Marielle Nogoy, Kwon Kyoo Kang, **Yong-Gu Cho** (2018) Low-Affinity Cation Transporter 1 Improves Salt Stress Tolerance in *Japonica* Rice. *Plant Breed. Biotech.* 6(1):82~93
- Me-Sun Kim, Yeisoo Yu, Kwon Kyoo Kang, **Yong-Gu Cho** (2018) Gene expression and SNP identification related to leaf angle traits using a genome-wide association study in rice (*Oryza sativa* L.). *J Plant Biotchnol* 45: 17-29.
- Franz Marielle Nogoy, Yu Jin Jung, Kwon Kyoo Kang, **Yong-Gu Cho** (2018) Characterization of ‘GolSam’ Lines Developed from the Cross between Samgwang and 5MT Resistant Lines in Rice. *Plant Breed. Biotech.* 6(3):233~244.
- Yu Jin Jung, Tae-Sung Kim, In-hae Lee, **Yong-Gu Cho**, Kwon Kyoo Kang (2018) Current status and prospects of the meiosis-specific function of recombinase in plants. *J Plant Biotechnol* 45:1–8.
- Ye-Rim Lee, Shahina Akter, In-Hae Lee, Yeo Jin Jung, So Young Park, **Yong-Gu Cho**, Kwon-Kyoo Kang, Yu Jin Jung (2018) Stable expression of brazzein protein, a new type of alternative sweetener in transgenic rice. *J Plant Biotechnol* 45:63–70.
- Me-Sun Kim, Jae-Young Song, Kwon-Kyoo Kang, **Yong-Gu Cho** (2017) Discrimination of Korean rice varieties as revealed by DNA profiling and its relationship with genetic diversity. *J Plant Biotechnol* 44:243–263.
- Hyemin Kim, Jeongeui Hong, **Yong-Gu Cho**, Kwon Kyoo Kang, Hojin Ryu (2017) Interplay between Brassinosteroid and ABA signaling during early seedling development. *J Plant Biotechnol* 44:264–270.
- Eun-Ju Jeong, Jae-Young Song, Dal-A Yu, Me-Sun Ki, Yu-Jin Jung, Kwon Kyoo Kang, Soo-Chul Park, **Yong-Gu Cho** (2017) Overexpression of an oligopeptide transporter gene enhances heat tolerance in transgenic rice. *J Plant Biotechnol* 44:296–302.
- Joonki Kim, Hye-Jung Lee, Yu-Jin Jung, Kwon-Kyoo Kang, Wricha Tyagi, Michael Kovach, Megan Sweeney, Susan McCouch, **Yong-Gu Cho** (2017) Functional properties of an alternative, tissue-specific promoter for rice NADPH-dependent dihydroflavonol reductase. *PLoS One* 12(8): e0183722.
- Jae-Young Song, Marjohn Niño, Franz Marielle Nogoy, Yu-Jin Jung, Kwon-Kyoo Kang, **Yong-Gu Cho** (2017) CRISPR/CAS9 as a Powerful Tool for Crop Improvement. *J Plant Biotechnol* 44:107–114.

- Yu Jin Jung, **Yong-Gu Cho**, Kwon Kyoo Kang (2017) Current status and prospects of epigenetic information in sexual reproductive processes of plants. *J Plant Biotechnol* 44:19–26.
- Yu Jin Jung, Sangsu Bae, Geung-Joo Lee, Pil Joon Seo, **Yong-Gu Cho**, Kwon Kyoo Kang (2017) A novel method for high-frequency genome editing in rice, using the CRISPR/Cas9 system. *J Plant Biotechnol* 44:89–96.
- In Hye Lee, Yu-Jin Jung, **Yong Gu Cho**, Ill Sup Nou, Md. Amdadul Huq, Franz Marielle Nogoy, Kwon-Kyoo Kang (2017) SP-LL-37, human antimicrobial peptide, enhances disease resistance in transgenic rice. *PLoS ONE* 12(3): e0172936. doi:10.1371/journal.pone.0172936
- Shadi Rahimi, Kwon-Kyoo Kang, **Yong-Gu Cho**. (2016) Global Trends in Plant Genomics Research to Improve Crop Productivity at PAG XXIV Conference. *Plant Breed. Biotech.* 4(1):1~15.
- Franz Marielle Nogoy, Shadi Rahimi, Kwon-Kyoo Kang, **Yong-Gu Cho**. (2016) Genomics Researches and Their Applications in Plant Breeding at PAG XXIV Conference. *Plant Breed. Biotech.* 4(1):16~28.
- Md. Amdadul Huq, Shahina Akter, Yu-Jin Jung, Ill Sup Nou, **Yong-Gu Cho**, Kwon-Kyoo Kang. (2016) Genome Sequencing, a Milestone for Genomic Research and Plant Breeding. *Plant Breed. Biotech.* 4(1):29-39.
- Gopal Saha, Jong-In Park, Hoytaek Kim, Kwon-Kyoo Kang, **Yong-Gu Cho**, Ill-Sup Nou. (2016) MADS-Box Genes Are Associated with the Petaloidy/Sepaloidy of Stamens in Cytoplasmic Male Sterile Brassica. *Plant Breed. Biotech.* 4(1):40-50.
- Sailila E. Abdula, Hye-Jung Lee, Hojin Ryu, Kwon Kyoo Kang, Illsup Nou, Mark E. Sorrells, **Yong-Gu Cho** (2016) Overexpression of *BrCIPK1* Gene Enhances Abiotic Stress Tolerance by Increasing Proline Biosynthesis in Rice. *PMBR* 34: 501-511.
- Sailila E. Abdula, Hye Jung Lee, Joonki Kim, Marjohn C. Niño, Yu-Jin Jung, Young-Chan Cho, Illsup Nou, Kwon-Kyoo Kang and **Yong-Gu Cho** (2016) BrUGE1 transgenic rice showed improved growth performance with enhanced drought tolerance. *Breeding Science* 66: 226-233.
- Yu Jin Jung, Ill Sup Nou, **Yong Gu Cho**, Myong Kwon Kim, Hoy-Taek Kim, and Kwon Kyoo Kang (2016) Identification of an SNP Variation of Elite Tomato (*Solanum lycopersicum L.*) Lines using Genome Resequencing Analysis. *Hortic. Environ. Biotechnol.* 57(2):173-181.
- Md. Abdul Kayum, Hoy-Taek Kim, Ujjal Kumar Nath, Jong-In Park, Kang Hee Kho, **Yong-Gu Cho**, Ill-Sup Nou (2016) Research on Biotic and Abiotic Stress Related Genes Exploration and Prediction in *Brassica rapa* and *B. oleracea*: A Review. *Plant Breed. Biotech.*4(2):135~144.
- Franz Marielle Nogoy, Jae-Young Song, Sothea Ouk, Shadi Rahimi, Soon Wook Kwon, Kwon-Kyoo Kang, **Yong-Gu Cho** (2016) Current Applicable DNA Markers for Marker Assisted Breeding in Abiotic and Biotic Stress Tolerance in Rice (*Oryza sativa L.*). *Plant Breed. Biotech.* 4(3):271~284.

- Jae-Young Song, Sothea Ouk, Franz Marielle Nogoy, Marjohn C. Niño, Soon Wook Kwon, Woongoo Ha, Kwon-Kyoo Kang, **Yong-Gu Cho** (2016) Application and utilization of marker assisted selection for biotic stress resistance in hybrid rice (*Oryza sativa L.*). J Plant Biotechnol 43:317–331.
- Joonki Kim, Hye-Jung Lee, Franz Marielle Nogoy, Dal-A Yu, Me-Sun Kim, Kwon-Kyoo Kang, Illsup Nou, **Yong-Gu Cho** (2016) *Brassica rapa* Sec14-like protein gene BrPATL4 determines the genetic architecture of seed size and shape. J Plant Biotechnol 43:332–340.
- Marjohn C. Niño, Jae-Young Song, Franz Marielle Nogoy, Me-Sun Kim, Yu Jin Jung, Kwon-Kyoo Kang, Illsup Nou, **Yong-Gu Cho** (2016) Overexpression of rice premnaspirodien oxygenase reduces the infection rate of *Xanthomonas Oryzae pv. Oryzae*. J Plant Biotechnol 43:403–412.
- Yu Jin Jung, Ho Jin Ryu, **Yong-Gu Cho**, Kwon Kyoo Kang (2016) Current status and prospects to identify mutations responsible for mutant phenotypes by using NGS technology. J Plant Biotechnol 43:411–416.
- Shahina Akter, Md. Amdadul Huq, Yu-Jin Jung, **Yong-Gu Cho**, Kwon-Kyoo Kang (2016) Application of sweet and taste modifying genes for development in plants: current status and prospects. J Plant Biotechnol 43:397~404.
- Shahina Akter, Md. Amdadul Huq, Yu-Jin Jung, **Yong-Gu Cho**, Kwon-Kyoo Kang (2016) Application of Single Nucleotide Polymorphism Markers for Selection of Male Sterility in Crop Plants. Plant Breed. Biotech. 4(4):379~386.
- Jang Sun Choi, In Hye Lee, **Yong-Gu Cho**, Yu Jin Jung, Kwon Kyoo Kang (2016) Overexpression of NtROS2a gene encoding cytosine DNA demethylation enhances drought tolerance in transgenic rice. J Plant Biotechnol 43:376–382.
- Marjohn C. Niño, Hye Jung Lee, Joonki Kim, Sailila E. Abdula, Yu-Jin Jung, Kwon-Kyoo Kang, Illsup Nou, and **Yong-Gu Cho**. (2015) Enhancement of Rice Resistance to Bacterial Blight by Overexpressing *BrCP3* Gene of *Brassica rapa*. Plant Breed. Biotech. 3(4):355~365.
- Sailila E. Abdula, Hye-Jung Lee, Hojin Ryu, Kwon Kyoo Kang, Illsup Nou, Mark E. Sorrells, **Yong-Gu Cho**. (2015) Overexpression of BrCIPK1 Gene Enhances Abiotic Stress Tolerance by Increasing Proline Biosynthesis in Rice. DOI 10.1007/s11105-015-0939-x.
- Yu Jin Jung, Franz Marielle Nogoy, **Yong-Gu Cho**, Kwon Kyoo Kang. (2015) Development of high tryptophan GM rice and its transcriptome analysis. J Plant Biotechnol. 42:186~195.
- Yu Jin Jung, Jung Ho Kyoung, Ill Sup Nou, **Yong Gu Cho**, Kwon Kyoo Kang. (2015) Molecular characterization of the UDP-glucose 4-epimerase (*BrUGE*) gene family in response to biotic and abiotic stress in Chinese cabbage (*Brassica rapa*). Plant Biotechnology Reports 9: 339~350.
- Hee-Jong Woo, Yang Qin, Soo-Yun Park, Soon Ki Park, **Yong-Gu Cho**, Kong-Sik Shin, Myung-Ho Lim, Hyun-Suk Cho. (2015) Development of Selectable Marker-Free Transgenic Rice Plants

with Enhanced Seed Tocopherol Content through FLP/FRT Mediated Spontaneous Auto-Excision PLoS ONE 10(7):e0132667. doi:10.1371/journal.pone.0132667

- Kyung Jun Lee, Jong-Ro Lee, Gi-An Lee, Ho Sun Lee, Soon Ik Kwon, **Yong-Gu Cho**, Yang-Hee Cho, Kyung-Ho Ma, Sok-Young Lee, and Jong-Wook Chung. (2015) Genetic Diversity Among Korean Rice Landraces (*Oryza sativa L.*) Based on Characters and SSR Markers. *Plant Breed. Biotech.* 3(3):216~225.
- In Hye Lee, Jang Sun Choi, Marjohn Nino, **Yong-Gu Cho**, Kwon Kyoo Kang, and Yu Jin Jung. (2015) Regulation of Abiotic Stress Response Through NtROS2a-mediated Demethylation in Tobacco. *Plant Breed. Biotech.* 3(2):108~118.
- Hojin Ryu, **Yong-Gu Cho**. (2015) Plant Hormones in Salt Stress Tolerance. *J. Plant Biol.* 58:147~155.
- Gopal Saha, Jong-In Park, Hee-Jeong Jung, Nasar Uddin Ahmed, Md. Abdul Kayum, Mi-Young Chung, Yoonkang Hur, Yong-Gu Cho, Masao Watanabe, Ill-Sup Nou. (2015) Genome-wide identification and characterization of MADS-box family genes related to organ development and stress resistance in *Brassica rapa*. *BMC Genomics* 16:178.
- Young-Chan Cho, Man-Ki Baek, Jung-Pil Suh, Yong-Jae Won, Jeong-Heui Lee, Jeong-Ju Kim, Hyun-Su Park, Woo-Jae Kim, Soon-Wook Kwon, **Yong-Gu Cho**, Bo-Kyeong Kim, and Jeom-Ho Lee. (2014) QTL Detection Associated with Eating Quality Based on Palatability Test in Japonica Rice (*Oryza sativa L.*). *Plant Breed. Biotech.* 2(4):342~353.
- Ho-Sun Lee, Yu-Mi Choi, Young-Yi Lee, Kyung-Ho Ma, Jae-Gyun Gwag, Jung Ro Lee, Yeo-Tae Yoon, **Yong-Gu Cho**, and Sok-young Lee. (2014) Selecting High Amylose Rice Germplasm Combined with NIR Spectroscopy at the RDA Genebank Conserved. *Plant Breed. Biotech.* 2(4):380~385.
- Hye Jung Lee, Moo-Geun Jee, Joonki Kim, Franz M.C. Nogoy, Marjohn C. Niño, Dal-A Yu, Me Sun Kim, Mingmao Sun, Kwon-Kyoo Kang, Illsup Nou, **Yong-Gu Cho**. (2014) Modification of Starch Composition Using RNAi Targeting *Soluble Starch Synthase I* in Japonica Rice. *Plant Breed. Biotech.* 2(3):301~312.
- Suresh Sundan, Tae Sung Kim, Sebastin Raveendar, Gyu-Taek Cho, Jung-Sook Sung, **Yong-Gu Cho**, Sokyong Lee, Kyung Ho Ma, and Jong-Wook Chung. (2014) Transcriptome Characterization and Single Nucleotide Polymorphism (SNP) Identification in *Vicia amurensis* Oett. Using Next-Generation Sequencing Technology. *Plant Breed. Biotech.* 2(3):213~223.
- Yu-Jin Jung, **Yong-Gu Cho**, Ill Sup Nou, Kwon Kyoo Kang. (2014) Transgenic Tomato Plants Ectopically Expressing *BrRZFP1* Gene Encoding C3HC4-type RING Zinc Finger Protein. *Plant Breed. Biotech.* 2(1):25~34.
- Marjohn Niño, Joonki Kim, Hye Jung Lee, Sailila E. Abdula, Ill Sup Nou, **Yong-Gu Cho**. (2014) Key Roles of Cysteine Protease in Different Plant Pathosystem. *Plant Breed. Biotech.* 2(2):97~109.

- Yu-Jin Jung, **Yong Gu Cho**, Ill Sup Nou, and Kwon Kyoo Kang. (2014) Transgenic Tomato Plants Ectopically Expressing *BrRZFPI* Gene Encoding C3HC4-type RING Zinc Finger Protein. *Plant Breed. Biotech.* 2(1):25~34.
- Suthasinee Somyong, Goro Ishikawa, Jesse D. Munkvold, James Tanaka, David Benscher, **Yong-Gu Cho**, **Mark E. Sorrells**. (2014) Fine mapping of a preharvest sprouting QTL interval on chromosome 2B in white wheat. *Theor Appl Genet* 127:1843~1855.
- Jong-In Park, Nasar Uddin Ahmed, Hee-Jeong Jung, Senthil Kumar Thamil Arasan, Mi-Young Chung, **Yong-Gu Cho**, Masao Watanabe, Ill-Sup Nou. (2014) Identification and characterization of LIM gene family in *Brassica rapa*. *BMC Genomics* 15:641.
- Hee-Jeong Jung, Ahmed NU, Park JI, Thamilarasan SK, Kim HR, **Cho YG**, Nou IS. (2014) Analysis of S-locus and expression of S-alleles of self-compatible rapid-cycling *Brassica oleracea* 'TO1000DH3'. *Mol Bio Rep* 41:6441~6448.
- Hee-Jeong Jung, Jong-In Park, Nasar Uddin Ahmed, Mi-Young Chung, Hye-Ran Kim, **Yong-Gu Cho**, Soo-Seong Lee, Ill-Sup Nou (2014) Characterization of self-incompatibility genes in the intergeneric hybrid x *Brassicoraphanus*. *Plant Syst Evol* DOI 10.1007/s00606-014-1016-x
- Kundan Kumar, Manu Kumar, Seong-Ryong Kim, Hojin Ryu, **Yong-Gu Cho**. (2013) Insights into genomics of salt stress response in rice. *Rice* 6:27
- Hye Jung Lee, Sailila E. Abdula, Dae Won Jang, Sung-Han Park, Ung-Han Yoon, Yu Jin Jung, Kwon Kyoo Kang, Ill Sup Nou, **Yong-Gu Cho**. (2013) Overexpression of the glutamine synthetase gene modulates oxidative stress response in rice after exposure to cadmium stress. *Plant Cell Rep* 32:1521~1529.
- Sailila E. Abdula, Hye Jung Lee, Moo Geun Jee, Yu Jin Jung, Kwon Kyoo Kang, Ill Sup Nou, Sang-Bok Lee, Won-Ha Yang, **Yong-Gu Cho** (2013) Development and Identification of Transgenic Rice Lines with Abiotic Stress Tolerance by using a Full-length Overexpressor Gene Hunting System. *Plant Breed. Biotech.* 1(1):33~48.
- Yu Jin Jung, Ill Sup Nou, Sung Kee Hong, Young Kee Lee, **Yong-Gu Cho**, Kwon Kyoo Kang (2013) Enhanced bacterial resistance in transgenic tobacco expressing a *BrRZFPI* encoding a C3HC4-type RING zinc finger protein from *Brassica rapa*. *J Plant Biotechnol* 40:49~54.
- Myung-Chul Lee, Dong-Jin Lee, Gi-An Lee, Hong-Jae Park, Jung-Ro Lee, Yu-Mi Choi, Su Kyeong Lee1, Yeonju Jung, **Yong-Gu Cho**, Jae Young Song (2013) Analysis and comparison of the γ -oryzanol content based on phylogenetic groups in Korean landraces of rice (*Oryza sativa* L.). *Plant Breed. Biotech.* 1(1):58~69.
- Kyung Hee Han, Yu Jin Jung, Uuganchimeg Bayarsaikhan, In Hye Lee, Jang Sun Choi, Ill Sup Nou4, **Yong-Gu Cho**, Kwon Kyoo Kang. (2013) Overexpression of *BrSAC1* encoding a phosphoinositide phosphatase isolated from Chinese cabbage (*Brassica rapa* L) improved tolerance to cold, dehydration, and salt stresses in transgenic tobacco. *African Journal of Biotechnology* Vol. 12(15): 1782~1792.

- Nasar Uddin Ahmed, Jong-In Park, Hee-Jeong Jung, Mi-Young Chung, **Yong-Gu Cho**, and Ill-Sup Nou. (2013) Characterization of Thaumatin-like Gene Family and Identification of *Pectobacterium carotovorum* subsp. *carotovorum* Inducible Genes in *Brassica oleracea*. *Plant Breed. Biotech.* 1(2):111-121.
- Yu Jin Jung, Kye Dong Lee, **Yong-Gu Cho**, Ill Sup Nou, Kwon Kyoo Kang. (2013) Molecular characterization of *BrRZFPs* genes encoding C3HC4 type RING zinc finger protein under abiotic stress from Chinese cabbage (*Brassica rapa* L.). *J Plant Biotechnol* 40:102~110.
- Nasar Uddin Ahmed, Jong-In Park, Hee-Jeong Jung, Mi-Young Chung, **Yong-Gu Cho**, Ill-Sup Nou. (2013) Characterization of Thaumatin-like Gene Family and Identification of *Pectobacterium carotovorum* subsp. *carotovorum* Inducible Genes in *Brassica oleracea*. *Plant Breed. Biotech.* 1(2):111~121.
- Ming-Mao Sun, Hye-Jung Lee, Sailila E. Abdula, Moo-Geun Jee, **Yong-Gu Cho**. (2013) Overexpression of *starch branching enzyme 1* gene improves eating quality in *japonica* rice. *J Plant Biotechnol* 40:88~101.
- Arasan SKT, Jong-In Park, Ahmed NU, Hee-Jeong Jung, In-Ho Lee, **Yong-Gu Cho**, Yong-Pyo Lim, Kwon-Kyoo Kang, Ill-Sup Nou. (2013) Gene ontology based characterization of Expressed Sequence Tags (ESTs). *IJEB* 51(7):522~530
- Hee-Jeong Jung, Nasar Uddin Ahmed, Jong-In Park, Mi-Young Chung, **Yong-Gu Cho**, Ill-Sup Nou. (2013) Molecular Genetic Aspects of Self-incompatibility in Brassicaceae. *Plant Breed. Biotech.* 1(2):205~217.
- Dhivya Selvaraj, Jong-In Park, Mi-Young Chung, **Yong-Gu Cho**, Sathishkumar Ramalingam, Ill-Sup Nou. (2013) Utility of DNA Barcoding for Plant Biodiversity Conservation. *Plant Breed. Biotech.* 1(4):320~332.
- Hye-Jung Lee, Sailila E. Abdula, and **Yong-Gu Cho**. (2012) Overexpression of *OsMLD* Encoding MYB-like DNA Binding Domain Increases Tolerance to Salt Stress in Rice (*Oryza sativa* L.). *Kor. J. Breed. Sci.* 44(2):100~109.
- Yu Jin Jung, Jang Sun Choi, Ju Nam Sun, Ill Sup Nou, **Yong-Gu Cho**, Kwon Kyoo Kang (2012) Molecular and functional characterization of a *Brmecp* gene encoding 2-C-methyl-D-erythritol 2,4-cyclodiphosphate synthase from *Brassica rapa*. *J Plant Biotechnol* 39:189~195.
- Yu Jin Jung, Hye Jung Lee, Jang Sun Choi, **Yong-Gu Cho**, Ill Sup Nou, Kwon Kyoo Kang (2012) Isolation and functional characterization of *BrUGT* gene encoding a UDP-glycosyltransferase from Chinese cabbage (*Brassica rapa*). *J Plant Biotechnol* 39:212~218.
- Ming-Mao Sun, Sailila E. Abdula, Hye-Jung Lee, Young-Chan Cho, Long-Zhi Han, Hee-Jong Koh, **Yong-Gu Cho** (2011) Molecular Aspect of Good Eating Quality Formation in Japonica Rice. *PLoS ONE* 6(4): e18385. doi:10.1371/journal.pone.0018385.
- Hee-Jong Woo, Seok-Cheol Suh, **Yong-Gu Cho** (2011) Strategies for Developing Marker-Free Transgenic Plants. *Biotechnol. Bioprocess Eng.* 16(6):1053~1064.

- Sailila Abdula, Hye-Jung Lee, Reneeliza Melgar, Mingmao Sun, Kwon-Kyoo Kang, **Yong-Gu Cho** (2011) Isolation and characterization of *Bradhl* gene encoding alcohol dehydrogenase from Chinese cabbage (*Brassica rapa*). *J. Plant Biotechnology* 38(1): 77~86.
- Yu Jin Jung, In Hye Lee, Kyung Hee Han, Cho Yee Son, **Yong Gu Cho**, Myung Chul Lee, Kwon Kyoo Kang (2010) Expression analysis and characterization of rice oligopeptide transport gene (*OsOPT10*) that contribute to salt stress tolerance. *J. Plant Biotechnology* 37(4):483~493.
- Cho Yong-Gu**, Woo Hee-Jong, Yoon Ung-Han, Kim Hong-Sig, Woo Sun-Hee. (2010) Current status on plant functional genomics. *J. Plant Biotechnology* 37(2):115~124.
- Cho Yong-Gu**, Kang Hyeon-Jung, Lee Young-Tae, Jong Seung-Keun, Eun Moo-Young, Susan R. McCouch (2010) Identification of quantitative trait loci for physical and chemical properties of rice grain. *Plant Biotechnology Reports* 4: 61~73.
- Kang Kwon-Kyoo, Song Beom-Heon, Lee Gyong-A, Lee Hye-Jung, Park Jin-Ha, Jung Yu-Jin, **Cho Yong-Gu** (2010) Increment of fructan biosynthesis in rice by transformation of 1-sst and 1-fft genes isolated from jerusalem artichoke (*Helianthus tuberosus L.*). *J. Plant Biotechnology* 37(1):102~109.
- Woo Hee-Jong, Shin Kong-Sik, Lee Ki-Jong, Kweon Soon-Jong, **Cho Yong-Gu**, Suh Seok-Cheol. (2010) Principal methods to produce marker-free GM plants. *J. Plant Biotechnology* 37(2):212~219.
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