

Curriculum Vitae

Eunyu Kim, Ph.D.

Position | Assistant Professor of Biology

Address | Duke Kunshan University, No. 8 Duke Avenue, Kunshan, Jiangsu Province, China 215316

E-mail | eunyu.kim@dukekunshan.edu.cn

ORCID ID | 0000-0002-6506-9725

Professional Experiences

Adjunct Assistant Professor | Department of Biology, Kyung Hee University | Seoul, Korea | April 2024 -

Adjunct Group Leader | Visiting Research Fellow | Center for Genetic Engineering, Institute for Basic Sciences (IBS) | Daejeon, Korea | April 2024 -

Senior Research Scientist | Environmental Research Center, Duke Kunshan University | Jiangsu, China | March 2023 – Present

Senior Research Scientist | Suzhou Key Lab on Advanced Sustainable Materials and Technologies, Duke Kunshan University | Jiangsu, China | March 2023 – Present

Assistant Professor of Biology | Division of Natural and Applied Sciences, Duke Kunshan University | Jiangsu, China | July 2022 – Present

Junior Group Leader | Center for Excellence in Molecular Plant Sciences (CEPMS), Chinese Academy of Sciences (CAS) | Shanghai, China | Feb. 2019 – May 2022

Visiting Scholar | Shanghai Chenshan Plant Science Research Center (SCPSRC), CAS | Shanghai, China | Oct. 2017 - Jan. 2019

Research Associate Professor | Yonsei University | Seoul, Korea | April 2015 - Feb. 2019

Research Assistant Professor | Yonsei University | Seoul, Korea | April 2012 - March 2015

Postdoctoral Researcher | Yonsei University | Seoul, Korea | Sep. 2010 - March 2012

Education

Ph.D. in Biology | Yonsei University, Seoul, Korea | Sep. 2004 - Aug. 2010

M.S. in Environmental Horticulture | University of Seoul, Seoul, Korea | March 2001 - Feb. 2003

B.S. in Forest Resources | Kookmin University, Seoul, Korea | March 1996 - Feb. 2001

Grants

06. Duke-Duke Kunshan University Joint Project on Transition Beyond Fossil Fuels | Duke Kunshan University | Aug. 2024 - June 2025 (32,000RMB)

05. Kunshan Shuangchuang Talent Award: Innovative Leading Talent | Kunshan Science and Technology Bureau | Code: kssc202302072 | Dec. 2023 - Dec. 2026 (1,000,000 RMB)

04. Research Fund for International Scientists-National Natural Science Fund of China | National Natural Science Fund of China | Code: 32350610246 | Jan. 2024 - Dec. 2025 (800,000 RMB)

03. General Program of Natural Science Foundation of Shanghai | Shanghai Science and Technology Bureau | Code: 21ZR1470700 | July 2021 - June 2022 (200,000 RMB)

02. Young Scientist Supporting Project | National Research Foundation of Korea (NRF) | Code: 2017R1C1B1004998 | March 2017 - Feb. 2019 (500,000 RMB)

01. Young Scientist Exchange Program between the Republic of Korea and The People's Republic of China | National Research Foundation of Korea (NRF) and China Science and Technology Exchange Center (CSTEC) | Oct. 2017 - Nov. 2018 (150,000 RMB)

Honors and Awards

04. CAS President's International Fellowship Initiative (PIFI) for Young Staff | Chinese Academy of Sciences | China | July 2020 (Prize money: 300,000 RMB)

03. Excellent Poster Award | International Symposium on Plant Science & the Annual Conference of the Korean Society of Plant Biologists | Daejeon, Korea | Nov. 2015

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02. Young Scientist Fellowship | Gordon Research Conference: Salt & water stress in plants | Newry, USA
| Aug. 2014
01. Grand Prize Award | Brain Korea 21 (BK21) Research Conference | Seoul, Korea | Oct. 2007

Professional Activities

04. Invited expert evaluator | The QS World University Rankings® | 2024 – Present
03. Co-Chair, 2024 Asia Korea Conference Organizing Committee in China | 2024 – Present
02. Vice President, Korean Scientists and Engineers Association in China | 2023 – Present
01. Associate Editor in Plant Cell Biology | Frontiers in Plant Science | 2019 – Present

Selected Publications

#, co-first author; *, co-corresponding author

08. Keun Pyo Lee#, Kaiwei Liu#, **Eun Yu Kim**#, Laura Medina-Puche, Haihong Dong, Rahul Mohan Singh, Mengping Li, Shan Qi, Jungnam Cho, Heng Zhang, Rosa Lozano-Duran, Chanhong Kim
The m⁶A reader ECT1 drives mRNA sequestration to dampen salicylic acid-dependent stress responses in Arabidopsis
The Plant Cell DOI:10.1093/plcell/koad300 (Feb. 2024)
This article was selected as the cover story in The Plant Cell.
07. Wenwen Fan#, Ling Wang#, Jie Chu#, Hui Li#, **Eun Yu Kim***, Jungnam Cho*
Tracing mobile DNAs: from molecular to population scales
Frontiers in Plant Science DOI:10.3389/fpls.2022.837378 (Jan. 2022)
06. **Eun Yu Kim**##*, Kyung Do Kim*, Jungnam Cho*
Harnessing epigenetic variability for crop improvement: current status and future prospects
Genes & Genomics DOI:10.1007/s13258-021-01189-7 (Nov. 2021)
05. **Eun Yu Kim**#, Ling Wang#, Zhen Lei#, Hui Li, Wenwen Fan, Jungnam Cho
Ribosome stalling and SGS3 phase separation prime the epigenetic silencing of transposons.
Nature Plants 7:303-309 (March 2021)

04. Ki Youl Park, Woo Taek Kim*, **Eun Yu Kim***

The proper localization of RESPONSIVE TO DESICCATION 20 in lipid droplets depends on their biogenesis induced by STRESS-RELATED PROTEINS in vegetative tissues.

Biochemical and Biophysical Research Communications 495:1885-1889 (Jan. 2018)

03. **Eun Yu Kim**, Ki Youl Park, Young Sam Seo, Woo Taek Kim

Arabidopsis small rubber particle protein homolog SRPs play dual roles as positive factors for tissue growth and development and in drought stress responses.

Plant Physiology 170:2494-2510 (April 2016)

02. Young Sam Seo#, **Eun Yu Kim**#, Woo Taek Kim

The *Arabidopsis sn-1*-specific mitochondrial acylhydrolase AtDLAH is positively correlated with seed viability.

Journal of Experimental Botany 62(15):5683-5698 (Nov. 2011)

01. Young Sam Seo#, **Eun Yu Kim**#, Hyung Gon Mang, Woo Taek Kim

Heterologous Expression, and Biochemical and Cellular Characterization of *CaPLA1* Encoding a Hot Pepper Phospholipase A1 Homolog.

Plant Journal 53(6):895–908 (March 2008)

Publications

35. Hoseong Jung#, Seijin Choi#, Yeongjun Kim, Jeong A. Han, Ho-Seok Lee*, **Eun Yu Kim***

Complete genome sequence of *Bacillus paramobilis* sp. strain IMG_N7 from soil

Microbiology Resource Announcements DOI:10.1128/mra.00450-24 (July 2024)

34. Jaeyeon Lee#, Bon-Jin Ku#, Yeongjun Kim, Jeong A. Han, **Eun Yu Kim***, Ho-Seok Lee*

Draft genome for *Pseudomonas alkylphenolica*, IMG_N1, isolated from soil

Microbiology Resource Announcements DOI:10.1128/mra.00457-24 (July 2024)

33. Yeongjun Kim#, Sangmin Lee#, Eunjeong Kim, Jeong A. Han, **Eun Yu Kim***, Ho-Seok Lee*

Draft genome sequence of bacterium *Bacillus proteolyticus* strain IMG_N4 from soil

Microbiology Resource Announcements DOI:10.1128/mra.00459-24 (July 2024)

32. Keun Pyo Lee#, Kaiwei Liu#, **Eun Yu Kim**#, Laura Medina-Puche, Haihong Dong, Rahul Mohan Singh, Mengping Li, Shan Qi, Jungnam Cho, Heng Zhang, Rosa Lozano-Duran, Chanhong Kim
The m⁶A reader ECT1 drives mRNA sequestration to dampen salicylic acid-dependent stress responses in Arabidopsis
The Plant Cell DOI:10.1093/plcell/koad300 (Feb. 2024)
This article was selected as the cover story in The Plant Cell.
31. Na Hyun Cho, **Eun Yu Kim**, Ki Youl Park, Cheol Jin Lim, Dong Hye Seo, Woo Taek Kim
Cosuppression of AtGELP22 and AtGELP23, two ubiquitinated target proteins of RING E3 ligase AtAIRP5, increases tolerance to drought stress in Arabidopsis
Plant Molecular Biology DOI: 10.1007/s11103-023-01368-y (Aug. 2023)
30. Kaiwei Liu#, Keun Pyo Lee#, Jianli Duan, **Eun Yu Kim**, Raul Mohan Singh, Minghui Di, Zhuoling Meng, Chanhong Kim
Cooperative role of AtRsmD and AtRimM proteins in modification and maturation of 16S rRNA in plastids
Plant Journal DOI:10.1111/tpj.16135 (April 2023)
29. Na Hyun Cho, Og-Geum Woo, **Eun Yu Kim**, Ki Youl Park, Dong Hye Seo, Seong Gwan Yu, Yoon A Choi, Ji Hee Lee, Jae-Hoon Lee, Woo Taek Kim
E3 ligase AtAIRP5/GARU regulates drought stress response by stimulating SERINE CARBOXYPEPTIDASE-LIKE1 turnover
Plant Physiology DOI:10.1093/plphys/kiac289 (June 2022)
28. Yunseok Heo, Inhwon Lee, Sunjin Moon, Ji-Hye Yun, **Eun Yu Kim**, Sam-Yong Park, Jae-Hyun Park, Woo Taek Kim, Weontae Lee
Crystal Structures of the Plant Phospholipase A1 Proteins Reveal a Unique Dimerization Domain
Molecules 27(7): 2317-2329 DOI: 10.3390/molecules27072317 (April 2022)
(This article belongs to the Special Issue Frontiers in Protein Folding and Related Areas – in Memory of Professor Sir Christopher M. Dobson (1949–2019))
27. Kaiwei Liu#, Keun Pyo Lee#, Jianli Duan, **Eun Yu Kim**, Rahul Mohan Singh, Minghui Di, Zhuoling Meng, Chanhong Kim

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Eunyu Kim, Ph.D.

Plastid-specific RsmD Methyltransferase and Ribosome Maturation Factor RimM are Crucial for 16S rRNA Maturation and Proteostasis

bioRxiv 7:303-309 DOI:10.1101/2022.03.07.483362 (March 2022)

26. Wenwen Fan#, Ling Wang#, Jie Chu#, Hui Li#, **Eun Yu Kim***, Jungnam Cho*

Tracing Mobile DNAs: From Molecular To Population Scales

Frontiers in Plant Science DOI:10.3389/fpls.2022.837378 (Jan. 2022)

25. **Eun Yu Kim#***, Kyung Do Kim*, Jungnam Cho*

Harnessing Epigenetic Variability for Crop Improvement: Current Status and Future Prospects

Genes & Genomics DOI:10.1007/s13258-021-01189-7 (Nov. 2021)

24. Zhen Lei, **Eun Yu Kim**, Jungnam Cho

Enrichment of Cytoplasmic RNA Granules from Arabidopsis Seedlings.

Bio-protocol 11(21):e4212 (Nov. 2021)

23. Zhen Lei#, Ling Wang#, **Eun Yu Kim**, Jungnam Cho

Phase Separation of Chromatin and Small RNA Pathways in Plants.

Plant Journal DOI:10.1111/tpj.15517 (Sep. 2021)

22. **Eun Yu Kim#**, Ling Wang#, Zhen Lei#, Hui Li, Wenwen Fan, Jungnam Cho

Ribosome Stalling and SGS3 Phase Separation Prime the Epigenetic Silencing of Transposons.

Nature Plants 7:303-309 (March 2021)

21. Keun Pyo Lee, Kaiwei Liu, **Eun Yu Kim**, Laura Medina-Puche, Haihong Dong, Jianli Duan, Mengping Li, Vivek Dogra, Yingrui Li, Ruiqing Lv, Zihao Li, Rosa Lozano-Duran, Chanhong Kim

Plant natriuretic peptide A and its putative receptor PNP-R2 antagonize salicylic acid-mediated signaling and cell death.

The Plant Cell 32:2237-2250 (May 2020)

20. **Eun Yu Kim**, Wenwen Fan, Jungnam Cho

Determination of TE Insertion Positions using Transposon Display.

Methods in Molecular Biology DOI:10.1007/978-1-0716-1134-0_11 (May 2020)

19. Ling Wang, Eun Yu Kim, Jungnam Cho

High-throughput Profiling of Extrachromosomal Linear DNAs of Long Terminal Repeat Retrotransposons by ALE-seq.

Methods in Molecular Biology DOI:10.1007/978-1-0716-1134-0_9 (May 2020)

18. Eun Yu Kim#, Ling Wang#, Zhen Lei#, Hui Li, Wenwen Fan, Jungnam Cho

Translational Inhibition and Phase Separation Primes the Epigenetic Silencing of Transposons.

bioRxiv 7:303-309 DOI:10.1101/2020.04.08.032953 (April 2020)

17. Ki Youl Park, Woo Taek Kim*, Eun Yu Kim*

The Proper Localization of RESPONSIVE TO DESICCATION 20 in Lipid Droplets Depends on Their Biogenesis Induced by STRESS-RELATED PROTEINS in Vegetative Tissues.

Biochemical and Biophysical Research Communications 495:1885-1889 (Jan. 2018)

16. Jin Won Lee, Woon Heo, Jinu Lee, Narae Jin, Sei Mee Yoon, Ki Youl Park, Eun Yu Kim, Woo Taek Kim, Joo Young Kim

The B Cell Death Function of Obinutuzumab-HDEL Produced in Plant (*Nicotiana benthamiana* L.) is Equivalent to Obinutuzumab Produced in CHO Cells.

PLoS ONE DOI:10.1371/journal.pone.0191075 (Jan. 2018)

15. Dong Hye Seo, Min Yong Ahn, Ki Youl Park, Eun Yu Kim, Woo Taek Kim

The N-terminal UND motif of the Arabidopsis U-box E3 ligase PUB18 is critical for the negative regulation of ABA-mediated stomatal movement and determines its ubiquitination specificity for exocyst subunit Exo70B1.

The Plant Cell 28:2952-2973 (Dec. 2016)

14. Eun Yu Kim, Ki Youl Park, Young Sam Seo, Woo Taek Kim

Arabidopsis Small Rubber Particle Protein Homolog SRPs Play Dual Roles as Positive Factors for Tissue Growth and Development and in Drought Stress Responses.

Plant Physiology 170:2494-2510 (April 2016)

13. Ki Youl Park, Eun Yu Kim, Young Sam Seo, Woo Taek Kim

Curriculum Vitae

Eunyu Kim, Ph.D.

Constitutive Expression of CaPLA1 Conferred Enhanced Growth and Grain Yield in Transgenic Rice Plants.

Plant Molecular Biology 90:517-532 (March 2016)

12. Ki Youl Park, Eun Yu Kim, Wontae Lee, Tae Yoon Kim, Woo Taek Kim

Expression, Subcellular Localization, and Enzyme Activity of a Recombinant Human extra-cellular Superoxide Dismutase in Tobacco (*Nicotiana benthamiana* L.).

Protein Expression and Purification 119:69-74 (March 2016)

11. Eun Yu Kim, Young Sam Seo, Ki Youl Park, Soo Jin Kim, Woo Taek Kim

Overexpression of *CaDSR6* Increases Tolerance to Drought and Salt Stresses in Transgenic *Arabidopsis* Plants.

Gene 552:146-154 (Sep. 2014)

10. Young Sam Seo#, Eun Yu Kim#, Woo Taek Kim

The *Arabidopsis* *sn-1*-specific Mitochondrial Acylhydrolase AtDLAH is Positively Correlated with Seed Viability.

Journal of Experimental Botany 62(15):5683-5698 (Nov. 2011)

09. Eun Yu Kim, Young Sam Seo, Woo Taek Kim

AtDSEL, an *Arabidopsis* Cytosolic DAD1-like Acylhydrolase, is Involved in Negative Regulation of Storage Oil Mobilization During Seedling Establishment.

Journal of Plant Physiology 168:1705-1709 (Sep. 2011)

08. Eun Yu Kim, Young Sam Seo, Hanna Lee, Woo Taek Kim

Constitutive Expression of *CaSRP1*, a Hot Pepper Small Rubber Particle Protein Homolog, Resulted in Fast Growth and Improved Drought Tolerance in Transgenic *Arabidopsis* Plants.

Planta 232(2):71-83 (July 2010)

07. So Hyun Kwon, Byung Ha Lee, Eun Yu Kim, Young Sam Seo, Sangman Lee, Woo Taek Kim, Jong Tae Song, Jeong Hoe Kim

Overexpression of a *Brassica rapa* *NGATHA* Gene in *Arabidopsis thaliana* Negatively Affects Cell Proliferation During Lateral Organ and Root Growth.

Plant and Cell Physiology 50(12):2162-2173 (Dec. 2009)

06. Young Sam Seo#, **Eun Yu Kim**#, Jeong Hoe Kim, Woo Taek Kim
Enzymatic Characterization of Class I DAD1-like Acylhydrolase Members Targeted to Chloroplast in *Arabidopsis*.
FEBS Letters 583(13):2301-2307 (July 2009)
05. Ora Son, Seok Keun Cho, **Eun Yu Kim**, Woo Taek Kim
Characterization of Three Arabidopsis Homologs of Human RING Membrane Anchor E3 Ubiquitin Ligase.
Plant Cell Reports 28(4):561-569 (April 2009)
04. Young Sam Seo#, **Eun Yu Kim**#, Hyung Gon Mang, Woo Taek Kim
Heterologous Expression, and Biochemical and Cellular Characterization of *CaPLA1* Encoding a Hot Pepper Phospholipase A1 Homolog.
Plant Journal 53(6):895–908 (March 2008)
03. Youbong Hyun, Sungwook Choi, Hyun-Ju Hwang, Jihyeon Yu, Sang-Jip Nam, Jaeyoung Ko, Ju-Young Park, Young Sam Seo, **Eun Yu Kim**, Stephen Beungtae Ryu, Woo Taek Kim, Yong-Hwan Lee, Heonjoong Kang, Iiha Lee
Cooperation and Functional Diversification of Two Closely Related Galactolipase Genes for Jasmonate Biosynthesis.
Developmental Cell 14(2):183–192 (Feb. 2008)
02. Sunjoo Joo, Young Sam Seo, **Eun Yu Kim**, Dong Ki Hong, Ki Youl Park, Woo Taek Kim
Brassinosteroid-induction of *AtACS4* Encoding an Auxin-responsive 1-aminocyclopropane-1-carboxylate Synthase 4 in Arabidopsis Seedlings.
Physiologia Plantarum 126(4):592-604 (April 2006)
01. Jong-Pil Hong, **Eun Yu Kim**, Moon Young Ryu, Sunghwa Choe, Phun Bum Park, Gynheung An, Woo Taek Kim
Structure and Expression of *OsMRE11* in rice.
Journal of Plant Biology 48(2):229-236 (June 2005)

Patents

23. **Eun Yu Kim** | A Method for Real-Time Visualization of Retrotransposition | **PCT** Application No. PCT/KR2022/018189 | Nov. 17, 2022
22. Jungnam Cho, **Eun Yu Kim** | A Method for Tracking Transposition of Genetic Material | **PCT** Application No. PCT/KR2021/009179 | July 16, 2021
21. Jungnam Cho, **Eun Yu Kim** | A Method for Detecting Transposable Genetic Material in a Biological Sample Based on Codon Optimality | **PCT** Application No. PCT/KR2020/004782 | April 08, 2020
20. Jungnam Cho, Jerzy Paszkowski, **Eun Yu Kim** | A Method for Detecting Transposable Element in a Biological Sample | **PCT** Application No. PCT/KR2019/005665 | May 10, 2019
19. Hongxing Yang, Ling Wang, **Eun Yu Kim**, Haihong Dong, Xia Zhang, Haiyan Zhuang | Cloning of Orchid Mosaic Virus Strain and Construction of Its Transcription Vector | **Chinese** Patent Application No. 2018113790073 | Nov. 19, 2018
18. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **United States** Patent Registration No. 10,017,779 | July 10, 2018
17. Tae Yoon Kim, Woo Taek Kim, **Eun Yu Kim**, Ki Youl Park, Won Tae Lee | Establishment of Cost-effective Human SOD3 (EC-SOD) Gene and Recombinant EC-SOD Production in Plants at a Large-scale | **Korean** Patent Registration No. 10-2015-0143306 | July 25, 2017
16. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **United States** Patent Registration No. 9,534,231 | Jan 03, 2017
15. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **United States** Patent Application No. 15_178,905 | June 10, 2016

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14. Woo Taek Kim, **Eun Yu Kim**, Moon Young Ryu, Yoon A Choi | Gene Implicated in Drought Stress Tolerance and Transformed Plants with The Same | **Korean** Patent Registration No. 10-1564748 | Oct. 26, 2015
13. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **Korean** Patent Registration No. 10-1446253 | Sep. 24, 2014
12. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **Korean** Patent Registration No. 10-1438738 | Sep. 01, 2014
11. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **Korean** Patent Registration No. 10-1416506 | July 01, 2014
10. Woo Taek Kim, **Eun Yu Kim**, Moon Young Ryu, Yoon A Choi | Gene Implicated in Drought Stress Tolerance and Transformed Plants with The Same | **United States** Patent Application No. 14/258908 | April 22, 2014
09. Woo Taek Kim, **Eun Yu Kim**, Soo Jin Kim | Gene Implicated in Plant Stress Tolerance and Use Thereof | **Korean** Patent Registration No. 10-1383331 | April 02, 2014
08. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **European** Patent Application No. 16160385.7 | Aug. 21, 2013
07. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **European** Patent Application No. 13181236.4 | Aug. 21, 2013
06. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo, Ki Youl Park | Gene Implicated in Abiotic Stress Tolerance and Growth Accelerating and Use Thereof | **United States** Patent Application No. 13/964071 | Aug. 10, 2013

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Eunyu Kim, Ph.D.

05. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo | Gene Implicated in Drought Stress Tolerance and Growth Acceleration and Transformed Plants with The Same | **Korean** Patent Registration No. 10-1291365 | July 23, 2013
04. Woo Taek Kim, **Eun Yu Kim**, Jiho Seo | Gene Implicated in Drought Stress Tolerance and Growth Acceleration and Transformed Plants with The Same | **PCT** Application No. PCT/KR2012/008437 | Oct. 16, 2012
03. Woo Taek Kim, **Eun Yu Kim**, Young Sam Seo | Gene Implicated in Seed Storage and Germination and Use Thereof | **Korean** Patent Registration No. 10-1100912 | Dec. 23, 2011
02. Woo Taek Kim, **Eun Yu Kim**, Soo Jin Kim | Gene Implicated in Drought Stress Tolerance and Growth Acceleration and Transformed Plants with The Same | **PCT** Application No. PCT/KR2010/007468 | Oct. 28, 2010
01. Woo Taek Kim, **Eun Yu Kim**, Young Sam Seo, Hyoung Gon Mang | Hot pepper CaPLA1 Gene Implicated in Growth Acceleration and Transformed Plants with The Same | **Korean** Patent Registration No. 10-0871591 | Nov. 26, 2008

Invited Speaking

08. Genetic Innovations in Bioenergy: Enhancing Renewable Energy Sources through Advanced Biotechnology | Workshop on Transition Beyond Fossil Fuels | Duke University | Durham, NC, USA | May 15, 2024
07. Transposons: Unsung Heroes in Sustainability | Center for Genetic Engineering, IBS (Institute for Basic Sciences) | Daejeon, Korea | Dec. 11, 2023
06. Plant Biology in Sustainability | Lecture: Plant Physiology | Kyung Hee University | Seoul, Korea | Dec. 8, 2023
05. Biology Towards Sustainable Future | Beijing Korean International School | Beijing, China | Dec. 1, 2023

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04. How Plant Cope with Environmental Stresses to Improve Crop Resilience and Development Better Crop | 2022 Conference of Korean Scientists and Engineers Association in China | Beijing, China | Dec. 3, 2022
03. Cellular Compartment Dynamics under Stress to Develop Better Crops | Lecture: Plant Genetic Engineering | Shanghai Normal University, Shanghai, China | June 24, 2021
02. Translational Inhibition and Phase Separation Prime the Epigenetic Silencing of Transposons | 2021 International Conference of the Genetics Society of Korea | Seoul National University (Siheung campus), Gyeonggi-do, Korea | Oct. 20-22, 2021
01. Epigenetic Silencing of Transposons | Plant Stress Center Seminar | Plant Stress Center, Chinese Academy of Sciences, Shanghai, China | March 26, 2021

International Conference Presentations

18. Keun Pyo Lee*, Kaiwei Liu*, **Eun Yu Kim***, Laura Medina-Puche, Haihong Dong, Minghui Di, Rahul Mohan Singh, Mengping Li, Shan Qi, Zhuoling Meng, Jungnam Cho, Heng Zhang, Rosa Lozano-Duran, and Chanhong Kim | Tailoring SA-triggered plant stress responses via epitranscriptomic m⁶A regulation in cytosolic condensates | The 24th International Conference on Plant Growth Substances, Gyeongju, Korea | July 04-08, 2023 (***Received Excellent Poster Award**)
17. Ling Wang, **Eun Yu Kim**, Wenwen Fan, Jungnam Cho | Identification of Retrotransposition Regulators Using GWAS and High-throughput CRISPR-Cas9 Screening in Arabidopsis | 2021 International Conference on Molecular Plant Sciences, Harbin, China | Aug. 04-07, 2021
16. Ling Wang, **Eun Yu Kim**, Jungnam Cho | Codon Optimality Regulates the Epigenetic Silencing of Transposons in Plants | The 24th Annual Meeting of the RNA Society, Krakow, Poland | June 11-16, 2019
15. Ki Youl Park, Woo Taek Kim, and **Eun Yu Kim** | The Targeting of RESPONSIVE TO DESICCATION 20 to Lipid Droplets Depends on Their Biogenesis Induced by STRESS-RELATED PROTEINS in Vegetative Tissues | The Interdisciplinary Plant Group, 35th Annual Symposium, Missouri, USA | May 30 - June 01, 2018

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Eunyu Kim, Ph.D.

14. **Eun Yu Kim**, Ki Youl Park, Jiho Seo, and Woo Taek Kim | Lipid droplet-associated AtSRPs, *Arabidopsis thaliana* Stress-Related Proteins, Play Dual Roles as Positive Factors for Tissue Growth and Development and Drought Stress Responses | Salt & Water Stress in Plants, Gordon Research Conferences, Las Diablerets, Swiss | May 29 - June 03, 2016
13. Ki Youl Park, **Eun Yu Kim**, Jiho Seo, Woo Taek Kim | Constitutive Expression of Hot Pepper Phospholipase A1 Enhances Growth and Grain Yield in Transgenic Rice | The 13th International Symposium on Rice Functional Genomics, Wuhan, China | Sep. 21 - 26, 2015
12. **Eun Yu Kim**, Jiho Seo, and Woo Taek Kim | Ectopic Expression of Hot Pepper Phospholipase A1 Affects Increased Growth and Grain Yield in Rice | Frontiers of Plant Biology: Epigenetics and Development, Cold Spring Harbor ASIA, Suzhou, China | June 08 - 12, 2015
11. **Eun Yu Kim***, Ki Youl Park, Jiho Seo, and Woo Taek Kim | *AtSRPs*, *Arabidopsis thaliana* Stress-Related Proteins, Play Dual Roles as Positive Factors for Tissue Growth, Development and Drought Stress Responses | Salt & Water Stress in Plants, Gordon Research Conferences, Newry, USA | Aug. 03 - 08, 2014 (*Received Young Scientist Fellowship)
10. Ki Youl Park, Hae Jo Min, **Eun Yu Kim**, Jiho Seo, and WT Kim | Heterologous Expression of a Hot Pepper Phospholipase A1 *CaPLA1* Improves Biomass and Grain Yield in Rice | The 12th International Symposium on Functional Genomics, Dublin, Ireland | June 22 - 26, 2014
09. **Eun Yu Kim**, Jiho Seo, Ki Youl Park, Woo Taek Kim | AtSRPs, *Arabidopsis thaliana* Stress-related Proteins, are Involved in Enhancing Drought Tolerance and Tissue Growth | The 10th International Congress on Plant Molecular Biology, Jeju, Korea | Oct. 21 - 26, 2012
08. **Eun Yu Kim**, Jiho Seo, Ki Youl Park, Woo Taek Kim | AtREFPs, *Arabidopsis thaliana* Rubber Elongation Factor Proteins, Play Dual Functions for Enhancing Drought Tolerance and Tissue Growth | Salt & Water Stress in Plants, Gordon Research Conferences, Hong Kong, China | June 24 - 29, 2012
07. Young Sam Seo, **Eun Yu Kim**, WT Kim | Seed Viability and Longevity are Enhanced by Overexpression of AtDLAH, a Mitochondrial-localized DAD1-like Acylhydrolase in *Arabidopsis* | The 4th Asian Symposium on Plant Lipids. Hong Kong, China | Dec. 02 - 04, 2011

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Eunyu Kim, Ph.D.

06. **Eun Yu Kim**, Young Sam Seo, Woo Taek Kim | Heterologous Expression of a Hot Pepper Stress-related Protein 1 Homolog (CaSRP1) Enhanced Tissue Growth and Drought Tolerance in Arabidopsis | Plant Biology 2010, American Society of Plant Biologists. Montreal, Canada | July 31 – Aug. 04, 2010
05. Young Sam Seo, **Eun Yu Kim**, Woo Taek Kim | Arabidopsis *sn-1* Specific Acylhydrolase is Involved in The Seed Viability and Longevity | The 19th International Symposium on Plant Lipids, Cairns, Queensland, Australia | July 11 - 16, 2010
04. **Eun Yu Kim**, Young Sam Seo, Woo Taek Kim | Overexpression of Arabidopsis *sn-1* Specific Acylhydrolase Inhibits Utilization of Storage Lipids for Seedling Establishment | The 19th International Symposium on Plant Lipids, Cairns, Queensland, Australia | July 11 - 16, 2010
03. Young Sam Seo, **Eun Yu Kim**, Jong Hum Kim, WT Kim | Enzymatic Characterization of DAD1-like Acylhydrolase Families Targeted to Chloroplast in *Arabidopsis* | The 20th International Conference on Arabidopsis Research, Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom | June 30 - 04, 2009
02. **Eun Yu Kim**, Young Sam Seo, Soo-Jin Kim, WT Kim | Characterization of DAD1-like Acylhydrolase Related to Seed Viability in *Arabidopsis* | The 20th International Conference on Arabidopsis Research, Edinburgh International Conference Centre, Edinburgh, Scotland, United Kingdom | June 30 - July 04, 2009
01. **Eun Yu Kim**, Young Sam Seo, Hyung Gon Mang, Ora Son, Woo Taek Kim | Heterologous Expression and Biochemical and Cellular Characterization of CaPLA1 Encoding a Hot Pepper Phospholipase A1 homolog | The Annual Meeting of Four Professional Scientific Societies. Chicago, Illinois USA | July 7 - 11, 2007