

CURRICULUM VITAE

MENG CHEN, PHD

Professor, Department of Botany and Plant Sciences

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RESEARCH INTERESTS

My laboratory investigates how plants sense and integrate environmental light and temperature signals to reprogram nuclear organization, gene expression, and chloroplast biogenesis. Using Arabidopsis phytochrome B (phyB) as a genetically tractable model, we define the spatial logic of environmental signaling—how stimulus-regulated nuclear condensates (photobodies) and the surrounding nucleoplasm partition opposing signaling outputs to control transcription factor activity and developmental decisions. We also dissect a nucleus-to-plastid anterograde signaling pathway that couples nuclear photoreceptor signaling to activation of plastid transcription by the plastid-encoded RNA polymerase, coordinating the photoautotrophic developmental transition. Finally, we develop quantitative and imaging-based approaches to understand multisensor temperature signal integration during thermomorphogenesis and how environmental inputs reshape genome architecture through dynamic gene positioning. Collectively, our work aims to uncover general principles by which environmental information is encoded through spatially organized cellular signaling to enable growth plasticity and climate adaptation.

EDUCATION AND TRAINING

B.S./M.S. Iowa State University, Ames, IA, 1994. Major: Biochemistry.

Ph.D. Iowa State University, Ames, IA, 1999. Major: Plant Physiology.

Postdoc The Salk Institute for Biological Studies, La Jolla, CA, 1999-2007. (with Joanne Chory)

ACADEMIC CAREER

2020- Professor, Dept of Botany & Plant Sciences, UC Riverside.

2017-2020 Associate Professor, Dept of Botany & Plant Sciences, UC Riverside.

2015-2017 Assistant Professor, Dept of Botany & Plant Sciences, UC Riverside.

2008-2015 Assistant Professor, Dept of Biology, Duke University.

2005-2007 Senior Research Associate, HHMI/Salk Institute. (Mentor: Joanne Chory)

1999-2005 Postdoctoral Research Associate, HHMI/Salk Institute. (Mentor: Joanne Chory)

1994-1999 Research Assistant, Dept of Botany, Iowa State University. (Advisor: Steve Rodermel)

1992-1994 Research Assistant, Dept of Biochemistry and Biophysics, Iowa State University. (Advisor: Herbert Fromm)

1992 Undergraduate Research Assistant, Dept of Biochemistry and Biophysics, Iowa State University. (Advisor: Dr. Donald Graves)

HONORS AND AWARDS

- Buchanan Lecture, UC Berkeley (2025)
- Early Career Award, International Symposium on Plant Photobiology (2015)
- Regents Faculty Development Award, UC Riverside (2016)
- Doctoral Research Excellence Award, Iowa State University (1999)
- Doctoral Teaching Excellence Award, Iowa State University (1999)

PROFESSIONAL SERVICE

- Member, Publications Committee, American Society of Plant Biologists (2025-2030)
- Co-organizer, Joanne Chory Memorial Symposium at Plant Biology 2025 (2025)
- Member, Arabidopsis Biological Resource Center (ABRC) Advisory Committee (2024-2027)
- Faculty Member, Plant Growth & Development Section, Faculty Opinions (2021-present)
- Member, Research Grants Council of Hong Kong (2019-2025)
- Editorial Board, Journal of Biological Chemistry (2016-2021)

- Co-chair, Photobiology Session, 30th International Conference on *Arabidopsis* Research (2019)
- Co-organizer, Joanne Chory 60th Birthday Symposium, Salk Institute (2016)
- Chair, Light and Temperature Session, ASPB annual meeting, Minneapolis, MN (2015)
- Chair, Cell Signaling Session, ASPB annual meeting, Austin, TX (2012)
- Member, NSF IOS Grant Review Panel (2010)
- Chair, Light Signaling session, ASPB annual meeting, Montreal, Canada (2010)

GRANTS

ACTIVE

- 2020-2028 NIH R01GM132765: Genetic and biochemical dissection of anterograde signaling for controlling plastid transcription. (PI)

COMPLETED

- 2022-2026 NSF MCB-2141560: Perinuclear positioning of active genes in *Arabidopsis*. (PI)
- 2025 NSF MCB-2534131: Conference: A celebration of the science legacy of Joanne Chory. (PI)
- 2010-2025 NIH R01GM087388: Function of photobodies in plant photoreceptor signaling. (PI)
- 2020-2024 NSF IOS-2034015: EAGER: spRNA-seq: high-throughput transcriptome analysis of single plastids. (Co-PI)
- 2019-2023 NSF MCB-1934703: Nucleoid structure and function in plastids. (Co-I)
- 2011-2015 NSF IOS-1051602: Uncover HEMERA-mediated phytochrome signaling mechanisms in *Arabidopsis*. (PI)
- 2009-2010 NSF IOS-0923722: Mechanistic links between phytochrome signaling and chloroplast differentiation. (PI)

PUBLICATIONS

48. Du J., He J., Chen E.M., Deng T., Talati S., Chang D., Mikhail T., Chen, M. (2026) Phytochrome B sets condensate number through graded nucleator states and seeding-site efficacy. **Nat Commun** <https://doi.org/10.1038/s41467-026-73929-w>.
47. Du J., Fan D., He J., Chen M. (2026) Twenty-five years of photobodies: formation, composition, and the two-compartment logic of phytochrome B signaling. **Plant Physiol** <https://doi.org/10.1093/plphys/kiag058>.
46. Xiong H., Bajracharya A., Odari R., Bayer E.E., Stoner A., Wasti A., Xi J., Baerson S.R., Chen M., Qiu Y. (2026) Oligomerization-competent PIF4 drives thermomorphogenesis through functional redundancy in transactivation and DNA binding. **Nat Commun** <https://doi.org/10.1038/s41467-026-70748-x>.
45. Fan D., Hu W., Xu N., Seto E.R., Lagarias J.C., Chen X.*, Chen M.* (2025) A multisensor high-temperature signaling framework for triggering daytime thermomorphogenesis in *Arabidopsis*. **Nat Commun** 16:5197. (* Co-corresponding authors)
44. Flynn N., Chen X.*, Chen M.* (2024) Plastid transcription: A major regulatory point in chloroplast biogenesis. In: Burch-Smith T. (eds) Chloroplast Gene Expression: Regulation, Signaling and Biotechnology. **Nucleic Acids & Mol Biol** vol 37, Springer, Cham, Switzerland. doi:10.1007/978-3-031-70098-9_1. (* Co-corresponding authors)
43. Hang R., Li H., Liu W. Wang R., Hu H., Chen M., You C., Chen X. (2024) HOT3/eIF5B1 confers Kozak motif-dependent translational control of photosynthesis-associated nuclear genes for chloroplast biogenesis. **Nat Commun** 15:9878.
42. Liu W., Lowrey H., Xu A., Leung C.C., Adamchek C., He J., Du J., Chen M., Gendron J.M. (2024) A circadian clock output functions independently of phyB to sustain daytime PIF3 degradation. **Proc Natl Acad Sci U S A** 121(25):e2408322121.
41. Du J., Kim K., Chen M. (2024) Distinguishing individual photobodies using Oligopaints reveals thermo-sensitive and -insensitive phytochrome B condensation at distinct subnuclear locations. **Nat Commun** 15:3620.

40. Kim R.J., Fan D., He J., Kim K., Du J., Chen M. (2024) Photobody formation spatially segregates two opposing phytochrome B signaling actions of PIF5 degradation and stabilization. **Nat Commun** 15:3519.
39. Fan D., Chen M. (2024) Dissection of daytime and nighttime thermoresponsive hypocotyl elongation in *Arabidopsis*. In: Chen, M. (eds) Thermomorphogenesis. **Methods Mol Biol** vol 2795, Humana, New York, NY. doi: https://doi.org/10.1007/978-1-0716-3814-9_2.
38. Du J., Chen M. (2024) Characterization of thermoresponsive photobody dynamics. In: Chen, M. (eds) Thermomorphogenesis. **Methods Mol Biol** vol 2795, Humana, New York, NY. doi: https://doi.org/10.1007/978-1-0716-3814-9_10.
37. Chen M. (eds) (2024) Thermomorphogenesis. **Methods Mol Biol** vol 2795, Humana, New York, NY. doi: <https://doi.org/10.1007/978-1-0716-3814-9>.
36. Quint M., Delker C., Balasubramanian S., Balcerowicz M., Casal J.J., Castroverde C.D.M., Chen M., Chen X., De Smet I., Fankhauser C., Franklin K.A., Halliday K.J., Hayes S., Jiang D., Jung J.H., Kaiserli E., Kumar S.V., Maag D., Oh E., Park C.M., Penfield S., Perrella G., Prat S., Reis R.S., Wigge P.A., Willige B.C., van Zanten M. (2023) 25 years of thermomorphogenesis research: milestones and perspectives. **Trends Plant Sci** 28(10):1098-1100.
35. Sang Q., Fan L., Liu T., Qiu Y., Du J., Mo B., Chen M.* , Chen X.*. (2023) MicroRNA156 conditions auxin sensitivity to enable growth plasticity in response to environmental changes in *Arabidopsis*. **Nat Commun** 14:1449. (* Co-corresponding authors)
34. Hwang Y., Han S., Yoo C.Y., Hong L., You C., Le B.H., Shi H., Zhong S., Hoecker U., Chen X., Chen M. (2022) Anterograde signaling controls plastid transcription via sigma factors separately from nuclear photosynthesis genes. **Nat Commun** 13:7440.
33. Yoo C.Y., He J., Sang Q., Qiu Y., Long L., Kim R.J., Chong E., Hahm J., Morffy N., Zhou P., Strader L.C., Nagatani A, Mo B, Chen X, Chen M. (2021) Direct photoresponsive inhibition of a p53-like transcription activation domain in PIF3 by *Arabidopsis* phytochrome B. **Nat Commun** 12:5614.
32. Willige B.C., Zander M., Yoo C.Y., Phan A., Garza R.M., Trigg S.A., He Y., Nery J.R., Chen H., Chen M., Ecker J.R., Chory J. (2021) PHYTOCHROME-INTERACTING FACTORS trigger environmentally responsive chromatin dynamics in plants. **Nat Genet** 53:955-961.
31. Chen M. (2021) Disengagement of light responses in *Arabidopsis* by localized developmental factors. **Proc Natl Acad Sci U S A** 118(21):e2106291118.
30. Qiu Y., Pasoreck E.K., Yoo C.Y., He J., Wang H., Li M., Larsen H.D., Cheung S., Chen M. (2021) RCB initiates *Arabidopsis* thermomorphogenesis by stabilizing the thermoregulator PIF4 in the daytime. **Nat Commun** 12:2042.
29. Yoo C.Y., Han S., Chen M. (2020) Nucleus-to-plastid phytochrome signalling in controlling chloroplast biogenesis. **Annu Plant Rev** 3:251-280.
28. Hahm J., Kim K., Qiu Y., Chen M. (2020) Increasing ambient temperature progressively disassembles *Arabidopsis* phytochrome B from individual photobodies with distinct thermostabilities. **Nat Commun** 11:1660.
27. Yoo C.Y., Williams D., Chen M. (2019) Quantitative analysis of photobodies. In: Hiltbrunner A. (eds) Phytochromes. **Methods Mol Biol**, vol 2026. Humana, New York, NY.
26. Yang E.M., Yoo C.Y., Liu J., Wang H., Cao J., Li F.-W., Pryer K.M., Sun T., Weigel D., Zhou P., Chen M. (2019) NCP activates chloroplast transcription by controlling phytochrome-dependent dual nuclear and plastidial switches. **Nat Commun** 10:2630.
25. Yoo C.Y., Pasoreck E.K., Wang H., Cao J., Blaha G.M., Weigel D., Chen M. (2019) Phytochrome activates the plastid-encoded RNA polymerase for chloroplast biogenesis via nucleus-to-plastid signaling. **Nat Commun** 10:2629.
24. Qiu Y., Li M., Kim R.J., Moore C.M., Chen M. (2019) Daytime temperature is sensed by phytochrome B in *Arabidopsis* through a transcriptional activator HEMERA. **Nat Commun** 10:140.

23. Qiu Y., Pasoreck E.K., Reddy A.K., Nagatani A., Ma W., Chory J., Chen M. (2017) Mechanism of early light signaling by the carboxy-terminal output module of *Arabidopsis* phytochrome B. **Nat Commun** 8:1905.
22. Nevarez P.A., Qiu Y., Inoue H., Yoo C.Y., Benfey P.N., Schnell D.J., Chen M. (2017) Mechanism of dual-targeting of the phytochrome signaling component HEMERA/pTAC12 to plastids and the nucleus. **Plant Physiol** 173(4):1953-66.
21. Huang H., Yoo C.Y., Bindbeutel R.K., Goldsworthy J., Tielking A., Alvarez S., Naldrett M.J., Evans B., Chen M., Nusinow D.A. (2016) PCH1 integrates circadian and light-signaling pathways to control photoperiod-responsive growth in *Arabidopsis*. **eLife** 5:e13292.
20. Qiu Y., Li M., Van Buskirk E.K., Long L., Shi Y., Galvão R.M., Chou C.L., Sun A.Y., Zhang Y.C., Jiang A., Chen M. (2015) HEMERA couples the proteolysis and activity of PHYTOCHROME INTERACTING FACTORS. **Plant Cell** 27(5):1409-27.
19. Van Buskirk E.K., Reddy A.K., Nagatani A., Chen M. (2014) Photobody localization of phytochrome B is tightly correlated with prolonged and light-dependent inhibition of hypocotyl elongation in the dark. **Plant Physiol** 165(2):595-607.
18. Feng C.-M., Qiu Y., Van Buskirk E.K., Yang E.J., Chen M. (2014) Light-regulated gene repositioning in *Arabidopsis*. **Nat Commun** 5:3027.
17. Galvão R.M., Li M., Kothadia S.M., Haskel J.D., Decker P.V., Van Buskirk E.K., Chen M. (2012) Photoactivated phytochromes interact with HEMERA and promote its accumulation to establish photomorphogenesis in *Arabidopsis*. **Genes Dev** 26(16):1851-63.
16. Van Buskirk E.K., Decker P.V., Chen M. (2012) Photobodies in light signaling. **Plant Physiol** 158(1):52-60.
15. Chen M.*, Chory J.* (2011). Phytochrome signaling mechanisms and the control of plant development. **Trends Cell Biol** 21(11):664-71. (* corresponding author)
14. Chen M.*, Galvão R.M., Li M., Burger B., Bugea J., Bolado J., Chory J.* (2010). *Arabidopsis* HEMERA/pTAC12 initiates photomorphogenesis by phytochromes. **Cell** 141(7): 1230-1240. (* corresponding author)
13. Fankhauser C.*, Chen M. (2008). Transposing phytochrome into the nucleus. **Trends Plant Sci** 13(11):596-601. (* corresponding author)
12. Chen M. (2008). Phytochrome nuclear body: an emerging model to study interphase nuclear dynamics and signaling. **Curr Opin Plant Biol** 11(5):503-8.
11. Chen M., Tao Y., Lim J., Shaw A., Chory J. (2005). Regulation of phytochrome B nuclear localization through light-dependent unmasking of nuclear localization signals. **Curr Biol** 15(7):637-42.
10. Chen M., Chory J., Fankhauser C. (2004). Light signal transduction in higher plants. **Annu Rev Genet** 38:87-117.
9. Chen M., Schwab R., and Chory J. (2003). Characterization of requirements for localization of phytochrome B to nuclear bodies. **Proc Natl Acad Sci U S A** 100(24):14493-14498.
8. Wang Z.Y., Nakano T., Gendron J., He J., Chen M., Vafeados D., Yang Y., Fujioka S., Yoshida S., Asami T., Chory J. (2002). Nuclear-localized BZR1 mediates brassinosteroid-induced growth and feedback suppression of brassinosteroid biosynthesis. **Dev Cell** 2(4):505-513.
7. The *Arabidopsis* genome initiative (Chen M. and Chory J.). (2000). Analysis of the genome sequence of the flowering plant *Arabidopsis thaliana*, **Nature** 408:796-815.
6. Chen M., Choi Y., Voytas D.F., Rodermel S. (2000). Mutations in the *Arabidopsis* VAR2 locus cause leaf variegation due to the loss of a chloroplast FtsH protease, **Plant J** 22(4):303-313.
5. Chen M., Jensen M., Rodermel S. (1999). The *yellow variegated* mutant of *Arabidopsis thaliana* is plastid autonomous and delayed in chloroplast biogenesis. **J Hered** 90:207-14.
4. Martin B.L., Luo S., Kintanar A., Chen M., and Graves D.J. (1998). Effect of citrulline for arginine replacement on the structure and turnover of phosphopeptide substrates of protein phosphatase-1. **Arch Biochem Biophys** 359:179-191.

3. Chen M., Chen L., and Fromm H.J. (1994). Replacement of glutamic acid 29 with glutamine leads to a loss of cooperativity for AMP with porcine fructose-1,6-bisphosphatase. *J Biol Chem* 269:5554-5558.
2. Chen L., Hegde R., Chen M., and Fromm H.J. (1993). Site-specific mutagenesis of the metal binding sites of porcine fructose-1,6-bisphosphatase. *Arch Biochem Biophys* 307:350-354.
1. Burton V.A., Chen M., Ong W.C., Ling T., Fromm H.J., and Stayton M.M. (1993). High-level expression of porcine fructose-1,6-bisphosphatase in *E. coli*: purification and characterization of the enzyme. *Biochem Biophys Res Commun* 192:511-517.

INVITED SEMINARS AND SYMPOSIA

88. International Symposium on Plant Photobiology, Les Diablerets, Switzerland (2026)
87. 3rd GPSRC Plant Science International Symposium, Konkuk University, Seoul, Korea (2026)
86. Plant Biology Graduate Group Seminar, Department of Plant Biology, UC Davis, CA (2026)
85. GRC on Photosensory Receptors and Signal Transduction, Ventura, CA (2026)
84. Southern California Plant Biology Symposium, Riverside, CA (2025)
83. 2025 Buchanan Lecture, Department of Plant and Microbial Biology, UC Berkeley, CA (2025)
82. 2nd GPSRC Plant Science International Symposium, Konkuk University, Seoul, Korea (2025)
81. Carnegie-Winslow Briggs Symposium, ASPB Plant Biology 2025, Milwaukee, WI (2025)
80. Dept of Chemistry and Biochemistry, California State University, Los Angeles, CA (2025)
79. 18th International Congress on Photobiology, Perth, Australia (2024)
78. 34th International Conference on Arabidopsis Research, San Diego, CA (2024)
77. Genome Organization & Nuclear Function Meeting, Cold Spring Harbor Laboratory, NY (2024)
76. Molecular and Cellular Biology Seminar, University of Maryland, College Park, MD (2024)
75. Thermomorphogenesis Journal Club – hosted by Rodrigo Reis, Univ of Bern, Switzerland (2024)
74. Plenary Talk, Western Regional ASPB Meeting, Long Beach, CA (2024)
73. Plant Photobiology EMBO-ISPP Satellite Meeting, IISER, Bhopal, India (2024)
72. International Symposium on Plant Photobiology, Bhubaneswar, India (2024)
71. PBIO, The Salk Institute, La Jolla, CA (2023)
70. GRC on Chloroplast Biotechnology, Ventura, CA (2023)
69. Plant Biology Section, Cornell University, Ithaca, NY (2023)
68. 2022 ASPB Plant Biology Worldwide Summit, Portland, OR (2022)
67. Plant Molecular Biology Seminar, Rutgers University, New Brunswick, NJ (2022)
66. GRC on Photosensory Receptors and Signal Transduction, Ventura, CA (2022)
65. International Symposium on Plant Photobiology, Cold Spring Harbor Laboratory, NY (2021)
64. 2021 Summer Workshop on Plant Developmental Biology, Peking University, Beijing, China (2021)
63. Donald Danforth Plant Science Center, St. Louis, MO (2021)
62. Plenary Talk, Annual Meeting of Korean Society of Plant Biologists, Seoul, Korea (2020)
61. 2020 Summer Workshop on Plant Developmental Biology, Peking University, Beijing, China (2020)
60. PAG XXVIII – Plant & Animal Genome Conference, San Diego, CA (2020)
59. UCR CEPCEB Retreat, Lake Arrowhead, CA (2019)
58. Institute of Botany, Chinese Academy of Sciences, Beijing, China (2019)
57. 2019 Summer Workshop on Plant Developmental Biology, Peking University, Beijing, China (2019)
56. 30th International Conference on Arabidopsis Research, Wuhan, China (2019)
55. China Agricultural University, Beijing, China (2019)
54. International Symposium on Plant Photobiology, Barcelona, Spain (2019)
53. PBIO, The Salk Institute, La Jolla, CA (2019)
52. School of Plant Sciences Seminar Series, University of Arizona, Tucson, AZ (2019)
51. Plenary Talk, NW Developmental Biology Meeting, San Juan Island, WA (2019)
50. Department of Plant Biology, University of Georgia, Athens, GA (2018)
49. Nuclear Organization and Function meeting, Cold Spring Harbor Laboratory, NY (2018)
48. Plenary Talk, Western Regional ASPB Meeting, Fullerton, CA (2018)
47. International Symposium on Plant Photobiology, Matsue, Japan (2018)

46. Workshop in Genetics – The 4D Nucleus, Interdepartmental Genetics and Genomics Program, Iowa State University, Ames, IA (2017)
45. Symposium on Plant Development, Signaling, and Epigenetics, Shenzhen University (2017)
44. XIX International Botanical Congress, Shenzhen, China (2017)
43. Nuclear Architecture & Control of Cell Fate session, Society for Developmental Biology 76th Annual Meeting, Minneapolis, MN (2017)
42. 13th International Conference on Tetrapyrrole Photoreceptors of Photosynthetic Organisms, Chicago, IL (2017)
41. Department of Plant Biology, Carnegie Institution for Science, Stanford, CA (2017)
40. Department of Cell Biology and Molecular Genetics, University of Maryland, MD (2016)
39. Walter and Helen Parke Loomis Minisymposium, Iowa State University, Ames, IA (2016)
38. Salk Seminar, The Salk Institute, La Jolla, CA (2016)
37. Joanne Chory 60th Birthday Symposium, the Salk Institute, La Jolla, CA (2016)
36. Joint Seminars in Molecular Biology, UC Davis, CA (2016)
35. CEPCEB Annual Awards Symposium, UC Riverside, Riverside, CA (2015)
34. 11th International Congress on Plant Molecular Biology, Iguazu Falls, Argentina/Brazil (2015)
33. 2015 ASPB annual meeting, Minneapolis, MN. Light and Temperature session (Chair) (2015)
32. International Symposium on Plant Photobiology, Austin, TX (2015)
31. Department of Plant & Microbial Biology, NC State University, Raleigh, NC (2015)
30. University of Texas at Austin, MCDB, Austin, TX (2013)
29. University of North Texas, Dept of Biological Sciences, Denton, TX (2013)
28. International Symposium on Plant Photobiology, Edinburgh, UK (2013)
27. Plant Biology Program, UMass Amherst, MA (2013)
26. 10th International Congress on Plant Molecular Biology, Jeju, Korea (2012)
25. ASPB annual meeting, Austin, TX. Cell Signaling session (Chair) (2012)
24. University of North Carolina at Chapel Hill, Dept. of Biology, Chapel Hill, NC (2012)
23. 26th Annual Plant Molecular Biology Retreat, Wrightsville Beach, NC (2012)
22. Keystone Symposium on Nuclear Events in Plant Gene Expression and Signaling, Taos, NM (2012)
21. Strategies of plants under Global Changing Environments, Kurashiki, Japan (2011)
20. Michigan State University, Plant Research Laboratory, East Lansing, MI (2011)
19. Institute of Genetics and Developmental Biology, Beijing, China (2011)
18. Fudan University, Shanghai, China (2011)
17. International Symposium on Plant Photobiology, Beijing, China (2011)
16. Science and Technology University of China, Hefei, China (2011)
15. Duke University, Department of Biochemistry, Durham, NC (2011)
14. North Carolina State University, Department of Genetics, Raleigh, NC (2010)
13. ASPB annual meeting, Montreal, Canada. Light Signaling session (Chair) (2010)
12. University of Southern California, Department of Molecular and Computational Biology, Los Angeles, CA (2010)
11. ASPB annual meeting, Hawaii (2009)
10. Dynamic Organization of Nuclear Function, Cold Spring Harbor Laboratory, NY (2008)
9. ASPB annual meeting, Chicago, IL (2007)
8. Department of Biology, Duke University, Durham, NC (2007)
7. Worcester Polytechnic Institute, Worcester, MA (2007)
6. Institute of Botany, the Chinese Academy of Sciences, Beijing, China (2006)
5. Institute of Genetics and Developmental Biology, Chinese Academy of Sciences, Beijing, China (2006)
4. Institute of Plant Physiology and Ecology, the Chinese Academy of Sciences, Shanghai, China (2006)
3. GRC on Photosensory Receptors & Signal Transduction, Il Ciocco, Italy (2006)
2. International Plant Photobiology Meeting, Paris, France (2006)
1. Missouri Symposium on Plant Photobiology, Columbia, MO (2001)

UNIVERSITY SERVICEUC RIVERSIDE

- Undergraduate Education Advisory Committee, BPSC (2025-present)
- Committee for Non-senate Personnel Recruitments and Reappointments, BPSC (2025-present)
- Committee on Planning and Budget, Academic Senate (2023-2026)
- Academic Planning Committee, BPSC (2021-present)
- Space Committee, College of Natural & Agricultural Sciences (2023)
- Committee on Committees, Academic Senate (2019-2022)
- Graduate Council, Academic Senate (2018-2019)
- Advancement Committee, BPSC (2018-2019)
- Microscopy Core Advisory Committee, IIGB (2017-2019)
- Undergraduate Educational Advisory Committee, BPSC (2015-2018)
- Plant Growth Environments Facility Working Group, CNAS (2017)
- Seminar Committee, CEPCEB (2016-2017)
- Graduate Admission Committee, CMDB (2016-2017)
- MRB1 Building Planning Committee, CNAS (2015)

DUKE UNIVERSITY

- Organizer, Duke Plant Biology Forum (2008-2014)
- Plant Growth Facility Committee, Biology (2008-2014)
- Graduate Admission Committee, Biology (2008, 2010-2014)
- Curriculum Committee, Biology (2008-2012)
- Executive Committee, Biology (2011-2012)
- Seminar Committee, Biology (2011)

TEACHINGUC RIVERSIDE

- BIOL 107A, Molecular Biology (2016-2020, 2022-2023, 2025-2026)
- CBNS 101, Fundamentals of Cell Biology (2025-2026)
- CMDB 200, Cell Biology (2017-2023)
- BPSC 250, Plant Biology Seminars (2018)

DUKE UNIVERSITY

- BIO 220, Cell and Developmental Biology (2009-2010, 2012-2014)
- BIO 213, Cell Signaling and Diseases (2011, 2012-2014)
- BIO 283, Developmental Genetics (2010-2013)
- BIO 295S, Current Topics in Plant Biology (2009)
- BIO 717S, Duke Plant Biology Forum (2008-2014)

ADVISINGUC RIVERSIDE

Assistant Project Scientists (3): Juan Du (current), Jiangman He (current), Yongjian Qiu, Chan Yul Yoo.

Specialist (1): Keunhwa Kim.

Junior Specialist (1): Joseph Hahm.

Lab Assistant (2): Darwin Chang, Nan Xu.

Postdocs (12): Xiaoteng Cai, Juan Du, Shaowei Duan (current), De Fan (current), Nora Flynn (current), Soeun Han, Jiangman He, Liangliang Hui, Liu Hong, Tianxiang Liu, Youra Hwang, Qing Sang, and Deeksha Singh.

Visiting Scholar (2): Jia Wei, Keisuke Tasaki.

Graduate Students (3): R. Jean Ae Kim (PLBL), Nora Flynn (PLBL), Nan Xu (BPHY, current).

Rotation Students (10): Sun Hyun Chang (PLBL, F18), Isaac Diaz (PLBL, F19), Annie Giang (BMB, F16), Elizabeth Hann (PLBL, S18), Myung Eun Oh (BMB, F18), Nora Flynn (PLBL, F19), Thulasi Mahendran (BMB, F18), Desiree Williams (CMDB, S17), Kevin To (PLBL, F17), Xueyan Xu (CMDB, S19).

Graduate Qualifying Exam or Guidance Committees (25): Marschal Bellinger (PLBL, Carolyn Rasmussen advisee); Sunhyun Chang (Chair, PLBL, David Nelson advisee); Sara Dorhmi (Plant Pathology, Wenbo Ma advisee); Nora Flynn (Chair, PLBL, Xuemei Chen advisee); Elizabeth Hann (PLBL, Robert Jinkerson advisee); Eva Hawara (Plant Pathology, Wenbo Ma advisee); Marcus Harland-Dunaway (Chair, PLBL, Robert Jinkerson advisee); Timothy Harris (Howard Judelson advisee); Huiling Liu (GGB, Wenxiu Ma advisee); Li Liu (PLBL, Xuemei Chen advisee), Pablo Martinez (BMB, Carolyn Rasmussen advisee); Alison Mills (BMB, Carolyn Rasmussen advisee); Jeffrey Pino (BMB, Ernest Martinez advisee); Alexander Plong (PLBL, Venu Reddy advisee); Paul Roche (PLBL, Linda Walling advisee); R M Imtiza Karim Rony (Chair, CMDB, Jaimie Van Norman advisee); Ryan Schiefelbein (BMB, Paul Larsen advisee); Jacob Schrier (CMDB, Xuan Liu advisee); Ann Song (CMDB, Jernej Murn advisee); Jessica Toth (PLBL, Jaimie Van Norman advisee); Aimee Uyehara (PLBL, Carolyn Rasmussen advisee); Alex Valenzuela (PLBL, Linda Walling and Peter Atkinson advisee); Nguyen Vo (GGB, Howard Judelson advisee); Jianqiang Wang (PLBL, Thomas Eulgem advisee); Ye Xu (Plant Pathology, Xuemei Chen advisee); Qi Zhou (BMB, Xuan Liu advisee).

PhD Dissertation Committees (20): Marschal Bellinger (PLBL, Carolyn Rasmussen advisee); Emily Blair (PLBL, Dawn Nagel advisee); Sunhyun Chang (Chair, PLBL, David Nelson advisee); Sara Dorhmi (Wenbo Ma advisee); Timothy Harris (GGB, Howard Judelson advisee); Kay Jang (BMB, Ernest Martinez advisee); Li Liu (PLBL, Xuemei Chen advisee); Pablo Martinez (BMB, Carolyn Rasmussen advisee); Alexander McClelland (Plant Pathology, Wenbo Ma advisee); Alison Mills (BMB, Carolyn Rasmussen advisee); Irma Ortiz (PLBL, Linda Walling advisee); Yagna Oza (GGB, Katherine Borkovich advisee); Alexander Plong (PLBL, Venu Reddy advisee); Paul Roche (PLBL, Linda Walling advisee); R M Imtiza Karim Rony (CMDB, Jaimie Van Norman advisee); Kenny Tsao (BMB, Paul Larsen Advisee); Aimee Uyehara (PLBL, Carolyn Rasmussen advisee); Jianqiang Wang (PLBL, Thomas Eulgem advisee); Ye Xu (Plant Pathology, Xuemei Chen advisee), Jiadong Yang (PLBL, Zhenbiao Yang advisee).

Undergraduate Researchers (20): Karen Ayetiwa (REU, 2018), Darwin Chang (F23-), Chris Cheng (W17-S17), Stacey Cheung (F18-19), Tracey Cheung (F18-20), Emily Chong (S2019-20), Derek Chow (F23-), Kirstie Fong (F18-19), Brooke Gomez (REU, 2016), Eric Khuu (W21-22), Tiffany Kim (S23-), Haley Larsen (S18-20), Theodore Mikhail (F23-), Carisha Moore (S17-S18), Wesley Ong (F23-), Aria Reynolds (REU, 2024), Ethan Seto (W23-), Josie Tam (S23-), Ngoc Tran (REU, 2017), Ruth Zhang (W20-23).

High School Students (5): Michelle Dinh, Nicole Saengsouvana, Erik Chen, Tina Deng, Shivani Talati.

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Postdocs (8): Peter Decker, Laura Dixon, Chunmiao Feng, Rafaelo Galvão, Meina Li, Yongjian Qiu, Yiting Shi, Chan Yul Yoo.

Graduate Students (4): Tao Ma (M.A. 2011), Andrew Nevarez (Ph.D. 2016), Elise Pasoreck (Ph.D. 2014), Emily J. Yang (Ph.D. 2017).

Rotation Students (3): Benjamin Byeon (S2008), Ning Sui (F2011), Benjamin Stormo (F2011).

Undergraduate Researchers (15): Brandon Chao (F2012-S2013), Charles Chen (F2009-S2010), Conrad Chou (S2011-S2012), Suny Gill (F2012-14), Jonathan Haskel (S2010-S2013), Anna Jiang (F2012-14), Sonya Kothadia (S2011-S2012), Mengyun Lu (2013-14), Vanessa Osman (F2013), Crystal Owens (S2012-F2012), Amit Reddy (F2009-S2011), Amanda Sun (S2009, S2011), Kristen Yang (F2008-S2009), Catherine Zhang (2013-15), Ruo Chen Zhu (S2011).

PhD Dissertation Committees (17): Scott Barish (UPGG), Benjamin Byeon (Biology), Yutao Chen (Biology), Heidi Cederholm (UPGG), Colleen Drapek (CMB), Andrew George (CMB), Yuanjie Jin (Biology), Fay-Wei Li (Biology), Ning Sui (Biology), Katherine Toll (UPGG), Ashley Troth (Biology), Manuel Valdes (UPGG), Wei Wang (Biology), Zheng Wang (UPGG), Jessica Wojtaszek (Biochem), Yan Xue (Biology), Mian Zhou (Biology), Paul Zurek (UPGG).