Young B. Cho
College of Tropical Agriculture and Human Resources
Department of Molecular Biosciences and Bioengineering
FTE Distribution: 40%I; 60%R; 0%E

Education

Degree	University	Major
PhD	University of Illinois at Urbana-Champaign	Crop Sciences
MS	University of Illinois at Urbana-Champaign	Crop Sciences
BS	Yonsei University	Biotechnology

Professional Appointments

Title	Employer	Dates Employed
Assistant Professor	University of Hawaii at Manoa	2024–Present
Postdoctoral Research Associate	University of Illinois	2019–2024
Postdoctoral Research Associate	USDA-ARS	2016–2019

Courses Taught

Course ID and name (credits)
MBBE/MICR 602 Molecular Biology and Genetics (3)

Publications (reverse chronological order)

- Croce, R., Carmo-Silva, E., Cho, Y. B., et al. (2024). Perspectives on improving photosynthesis to increase crop yield. The Plant Cell, koae132.
- Cho, Y.B., Boyd, R.A., Ren, Y., et al. (2024). Reducing chlorophyll level in seed filling stages results in higher seed nitrogen without impacting canopy carbon assimilation. Plant Cell and Environment. https://doi.org/10.1111/pce.14737
- Cho, Y. B., Stutz, S. S., Jones, S. I., et al. (2023). Impact of pod and seed photosynthesis on seed filling and canopy carbon gain in soybean. Plant Physiology, 193(3):966–979. https://doi.org/10.1093/plphys/kiad324
- Lee, J.W., Bhagwat, S.S., Cho, Y.B., et al. (2023). Rewiring yeast metabolism for 2,3-butanediol production. Chemical Engineering Journal, 138886.
- Cho, Y.B., Jones, S.I., Vodkin, L. (2019). Non-allelic homologous recombination events in RNA silencing loci. Plant Direct, 3:1–16. https://doi.org/10.1002/pld3.162
- Walker, B. J., Drewry, D. T., Slattery, R. A., Cho, Y. B., et al. (2018). Chlorophyll reduction in crop canopies. Plant Physiology, 176(2):1215–1232.
- Cho, Y.B., Jones, S.I., Vodkin, L. (2017). Argonaute5 mutations and epistatic interactions in soybean seed coat color. The Plant Cell, 29(4):708–725.
- Cho, Y.B., Jones, S.I., Vodkin, L. (2013). Transition from primary to secondary siRNAs in soybean seed coats. PLoS ONE, 8(10):e76954

Graduate Students

Category	Current Number of Students	Number Graduated (Career)
Chair of Master Committees	0	0
Chair of PhD Committees	2	0

Member of Master Committees	0	0
Member of PhD Committees	0	0
*Visting Graduate Scholar	1	0

Grant Support

- Title of Grant: Start-up funding
  Source of Grant: University of Hawaii
  Dates of Grant: 2024–2026
  Role: PI

- Title of Grant: McIntire-Stennis Grant on Climate Resilience of Tropical Cacao
  Source of Grant: USDA
  Total Dollar Value (Your share of the grant value): $80,000
  Dates of Grant: 2024–2029
  Role: PI

Presentations at Conferences

- Title: Cis-regulatory Mutations Drive Tissue-specific Sub-functionalization of sRNA loci Regulating Soybean Seed Color During Domestication.
  Authors (presenter*): Cho, Y.B.*
  Name of Conference: Soybean Genomics Workshop, PAG
  Location: San Diego, CA
  Date of Presentation: 01/14/2025

- Title: Cis-regulatory Mutations Drive Tissue-specific Sub-functionalization of sRNA loci Regulating Soybean Seed Color During Domestication
  Authors (presenter*): Cho, Y.B.*
  Name of Conference: Guest Seminar, US-PBARC
  Location: Hilo, HI
  Date of Presentation: 12/12/2024

- Title: GEGC Story: Enhancing Seed Nitrogen Without Yield Penalty Through Chlorophyll Reduction and Collaborative Efforts Exploring Non-Foliar Photosynthesis.
  Authors (presenter*): Cho, Y.B.*
  Name of Conference: Integrative Genomic Biology Symposium
  Location: Urbana, IL
  Date of Presentation: 05/02/2024