

Yu CHEN

Postdoctoral Fellow

✉ yu.chen@vib.be

🆔 0009-0003-4936-5481

📍 Technologiepark-Zwijnaarde 71, 9052

📍 Ghent, Belgium



EXPERIENCE

Postdoctoral Fellow

VIB-UGent Center for Plant Systems Biology

📅 April 2026 – Ongoing

Postdoctoral Researcher

RIKEN Center for Sustainable Resource Science

📅 November 2023 – March 2026

Technical Staff

RIKEN Center for Sustainable Resource Science

📅 October 2019 – September 2020

FUNDINGS

Grant-in-Aid for Research Activity Start-up

Mechanisms for determining the fate of new meristem during plant regeneration

📅 July 2024 – March 2026

PUBLICATIONS

📄 Review Article

- Hatsune Morinaka, [Yu Chen](#), Keiko Sugimoto. Single-cell views of fate reprogramming in *de novo* organogenesis. *Journal of Plant Research*, 2025
- [Yu Chen](#), Fu-Yu Hung, Keiko Sugimoto. Epigenomic reprogramming in plant regeneration: Locate before you modify. *Current Opinion in Plant Biology*, 2023

📄 Research Article

- Fu-Yu Hung, Yetkin Çaka Ince, Ayako Kawamura, Arika Takebayashi, [Yu Chen](#), Takuya T. Nagae, Akira Iwase, Noriko Takeda-Kamiya, Kiminori Toyooka, Dongbo Shi, Miguel Moreno-Risueno, Keqiang Wu, and Keiko Sugimoto. Prolonged cold exposure enhances regeneration potential in *Arabidopsis*. *Developmental Cell*, 2026
- Duncan Coleman, Akira Iwase, Ayako Kawamura, Arika Takebayashi, [Yu Chen](#), Max Minne, Katja E Jager, Maolin Peng, Yutaka Kodama, David S Favero, Tatsuya Takahashi, Momoko Ikeuchi, Takamasa Suzuki, Naohiko Ohama, Kazuko Yamaguchi-Shinozaki, Philip A Wigge, Lieven De Veylder, and Keiko Sugimoto. Wounding activates the HSFA1 transcription factors to promote cellular reprogramming in *Arabidopsis*. *The Plant Cell*, 2026
- [Yu Chen](#), Yetkin Çaka Ince, Ayako Kawamura, David S. Favero, Takamasa Suzuki, and Keiko Sugimoto. ELONGATED HYPOCOTYL5-mediated light signaling promotes shoot regeneration in *Arabidopsis thaliana*. *Plant Physiology*, 2024
- Phanu T. Serivichyaswat, Kai Bartusch, Martina Leso, Constance Musseau, Akira Iwase, [Yu Chen](#), Keiko Sugimoto, Marcel Quint, and Charles W. Melnyk. High temperature perception in leaves promotes vascular regeneration and graft formation in distant tissues. *Development*, 2022

PRESENTATIONS

🎤 Oral

- [Yu Chen](#), et al. "Mechanisms for determining the new meristem fate during plant regeneration" 2024 *International Symposium on Plant Stem Cells and Regeneration*, 2024 (★ Invited Speaker)
- [Yu Chen](#), et al. "HY5 determines the new meristem fate in response to light signals during *de novo* organogenesis" *The 65th Annual Meeting of The Japanese Society of Plant Physiologists*, 2024

📄 Poster

- [Yu Chen](#), et al. "Regeneration upon injury: signal transduction mechanisms underlying wound-induced plant regeneration" *The 36th International Conference on Arabidopsis Research*, 2026
- [Yu Chen](#), et al. "Brassinosteroid signals repress shoot regeneration by impairing pluripotency acquisition" *Plant Genomes, Systems Biology, & Engineering*, 2025

EDUCATION

Ph.D. in Biological Sciences

The University of Tokyo

📅 September 2020 – September 2023

Thesis title: Determination of new meristem fate in plant regeneration

M.Sc. in Life Science

Hokkaido University

📅 September 2017 – September 2019

Thesis title: Local and long-distance signaling in root-cutting response of *Arabidopsis thaliana*

B.Sc. in Life Science

Chongqing University

📅 September 2013 – June 2017

SKILLS

Molecular cloning Genome engineering
Single-cell omics Microscopy imaging
Transformation Plant tissue culture
Transcriptomics Epigenomics
R/Python for statistical analysis

HONORS

👑 Fellowship

- Marie Skłodowska-Curie Actions Postdoctoral Fellowships, 2027-2029
- Junior Research Associate Program at RIKEN, 2021-2023

🏆 Scholarship

- Hokkaido International Exchange and Cooperation Center Scholarship, 2018-2019
- Japan Student Services Organization Scholarship, 2017-2018
- Academic Scholarship of Chongqing University, 2015-2016 & 2014-2015

🏆 Award

- RIKEN Research and Technology Incentive Award, March 2026
- Outstanding Poster Award at *The 1st National Conference on Plant Stem Cell Biology*, November 2023