Stanford

Yue Rui

Basic Life Res Scientist

Biology

Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

Publications

PUBLICATIONS

- **Plant cell wall-plasma membrane attachments mediate stress resilience through cellulose synthase complexes and remorins.** *Cell*
  Rui, Y., Zaoralová, M., Dwyer, W. P., Reyes, A. V., Grismer, T. S., Abel, N. B., Jayachandran, D., Chundawat, S. P., Ott, T., Kieber, J. J., Dahlberg, P. D., Xu, S. L., Dinneny, et al
  2026

- **Correlating physiology and structure with fluorescent biosensors and cryo-ET**
  Azaldegui, C. A., Perez, D. D., Dwyer, W., Rose, K. M., Rui, Y., Dinneny, J., Dahlberg, P. D.
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- **Visualizing spatial and temporal responses of plant cells to the environment**
  Zaoralova, M., Azaldegui, C. A., Sica, A. V., Rui, Y., Joubert, L., Dinneny, J., Dahlberg, P. D.
  CELL PRESS.2024: 420A

- **Environmental biosensors for cryogenic correlative light and electron microscopy**
  Azaldegui, C. A., Rui, Y., Vecchiarelli, A., Dinneny, J., Biteen, J., Dahlberg, P. D.
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- **Mutations in the Pectin Methyltransferase QUASIMODO2 Influence Cellulose Biosynthesis and Wall Integrity in Arabidopsis thaliana.** *The Plant cell*
  Du, J. n., Kirui, A. n., Huang, S. n., Wang, L. n., Barnes, W. J., Kiemle, S. n., Zheng, Y. n., Rui, Y. n., Ruan, M. n., Qi, S. n., Kim, S. H., Wang, T. n., Cosgrove, et al
  2020

- **A Wall with Integrity: Surveillance and Maintenance of the Plant Cell Wall Under Stress.** *The New phytologist*
  Rui, Y., Dinneny, J. R.
  2019

- **Synergistic Pectin Degradation and Guard Cell Pressurization Underlie Stomatal Pore Formation.** *Plant physiology*
  Rui, Y., Chen, Y., Yi, H., Purzycki, T., Puri, V. M., Anderson, C. T.
  2019

- **Mechanical Effects of Cellulose, Xyloglucan, and Pectins on Stomatal Guard Cells of Arabidopsis thaliana** *FRONTIERS IN PLANT SCIENCE*
  Yi, H., Rui, Y., Kandemir, B., Wang, J. Z., Anderson, C. T., Puri, V. M.
  2018; 9

- **Balancing Strength and Flexibility: How the Synthesis, Organization, and Modification of Guard Cell Walls Govern Stomatal Development and Dynamics** *FRONTIERS IN PLANT SCIENCE*
  Rui, Y., Chen, Y., Kandemir, B., Yi, H., Wang, J. Z., Puri, V. M., Anderson, C. T.

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