



張珮君 博士

助理教授

E-mail : pearlchang@mail.npust.edu.tw

TEL : +886-8-7703202 ext. 7621

Major : 遺傳學，植物分子生物學，基因組學

PhD: University of Waterloo, Canada

課程

高等分子生物學，植物分子生物學，植物學，酵素學，微生物學，保育生物學

研究興趣

生物技術和環境修復、植物生長促進細菌、DNA 甲基化和染色質結構分析、玉米減數分裂、植物角質層研究

發表文獻

- **Pearl Chang**, Yu-Fang Tseng, Pao-Yang Chen, Chung-Ju Rachel Wang (2018) Using flow cytometry to isolate maize meiocytes for next generation sequencing: A time and labor efficient method. *Current Protocols in Plant Biology*, 3, e20068. doi: 10.1002/cppb.20068
- **Pearl Chang**, Moloya Gohain, Ming-Ren-Yen and Pao-Yang Chen (2018) Computational Methods for Assessing Chromatin Hierarchy. *Computational and Structural Biotechnology Journal* 16:43-53.
- **Pearl Chang**, Karen E. Gerhardt, Xiao-Dong Huang, Xiao-Ming Yu, Bernard R. Glick, Perry D. Gerwing and Bruce M. Greenberg (2014) Plant growth promoting bacteria facilitate the growth of barley and oats in salt-impacted soil: Implications for phytoremediation of saline soils. *International Journal of Phytoremediation* 16(11):1133-1147.



Dr. Pearl Pei-Chun CHANG

Assistant Professor

E-mail : pearlchang@mail.npust.edu.tw

TEL : +886-8-7703202 ext. 5183

Major : Genetics, Plant molecular biology, Genomics

PhD: University of Waterloo, Canada

Lectures

Advanced Molecular Biology, Plant Molecular Biology, Botany, Enzymology, Microbiology, Conservation Biology

Research Interests

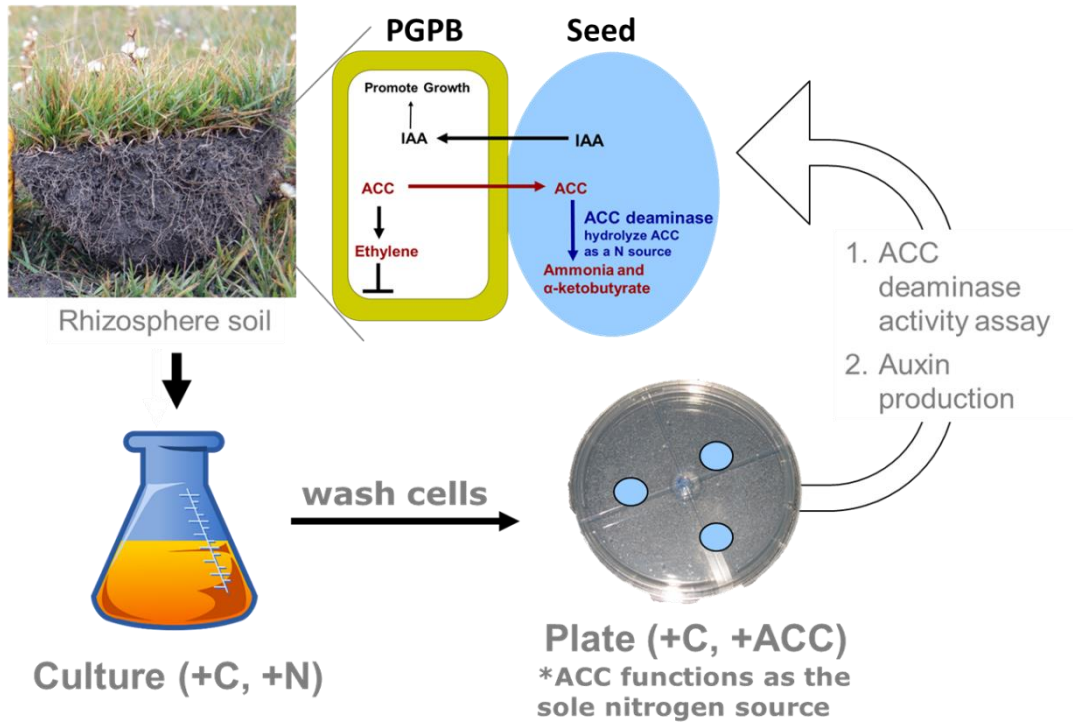
- Biotechnology and environmental remediation
- Plant growth-promoting bacteria (PGPB)
- Plant DNA methylation and chromatin structure analysis
- Maize meiosis
- Plant cuticle

Selected publications

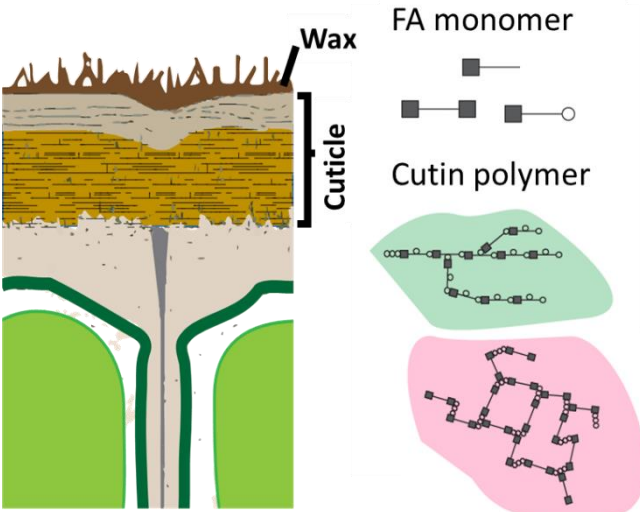
- **Pearl Chang**, Yu-Fang Tseng, Pao-Yang Chen, Chung-Ju Rachel Wang (2018) Using flow cytometry to isolate maize meiocytes for next generation sequencing: A time and labor efficient method. *Current Protocols in Plant Biology*, 3, e20068. doi: 10.1002/cppb.20068
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- **Pearl Chang**, Karen E. Gerhardt, Xiao-Dong Huang, Xiao-Ming Yu, Bernard R. Glick, Perry D. Gerwing and Bruce M. Greenberg (2014) Plant growth promoting bacteria facilitate the growth of barley and oats in salt-impacted soil: Implications for phytoremediation of saline soils. *International Journal of Phytoremediation* 16(11):1133-1147.

BT 205 Plant and the Environment Lab

Phytoremediation with indigenous PGPB



Plant cuticle and lipids



Chromatin Structure

