

2026

Yen MR, Pan KC, (Liu MJ*), Cheng CY*, Wu TY*

Protocol to predict gene expression from transcriptomics data using PREDICT. *Star Protocols*

2025

Ming-Ren Yen , Ya-Ru Li , Chia-Yi Cheng, Ting-Ying Wu*, [Ming-Jung Liu](#) *

TISCalling: leveraging machine learning to identify translational initiation sites in plants and viruses. *PLANT MOLECULAR BIOLOGY* , 115(4), 102

2024

Ting-Ying Wu*, Ya-Ru Li, Kai-Jyun Chang, Jhen-Cheng Fang, Daisuke Urano and ([Ming-Jung Liu](#) *)

Modeling alternative translation initiation sites in plants reveals evolutionarily conserved cis-regulatory codes in eukaryotes. *Genome Research*

([Ming-Jung Liu](#) *), Jhen-Cheng Fang, Ya Ma, Geeng-Loo Chong, Chun-Kai Huang, Ami Takeuchi, Natsu Takayanagi, Misato Ohtani*

Frontiers in Plant RNA Research in ICAR2023: from Lab to Innovative Agriculture. *Plant Molecular Biology*

2023

Jhen-Cheng Fang and ([Ming-Jung Liu](#) *)

Translation initiation at AUG and non-AUG triplets in plants. *PLANT SCIENCE*

2022

Ching-Wen Chiu, Ya-Ru Li, Cheng-Yuan Lin, Hsin-Hung Yeh and [Ming-Jung Liu](#) *

Translation initiation landscape profiling reveals hidden open reading frames required for the pathogenesis of tomato yellow leaf curl Thailand virus. *Plant Cell*

2021

Ting-Ying Wu, HonZhen Goh, Christina B. Azodi, Shalini Krishnamoorthi, [Ming-Jung Liu](#), and Daisuke Urano

Evolutionarily conserved hierarchical gene regulatory networks for plant salt stress response. *Nature Plants* , 7, 787–799

2020

Kailasam S., Singh S., [Liu M.-J.](#), Lin C.-C. and Yeh K.-C.*

A HemK class glutamine-methyltransferase is involved in the termination of translation and essential for iron homeostasis in Arabidopsis. *New Phytologist* , 226, 1361–1374

Li Y.-R. and [Liu M.-J.](#) *

Prevalence of alternative AUG and non-AUG translation initiators and their regulatory effects across plants. *Genome Research* , 30(10), 1418-1433

2018

[Liu, M. J.](#) *, Sugimoto, K., Uygun, S., Panchy, N., Campbell, M. S., Yandell, M., G. A. Howe and Shiu, S. H.*

Regulatory Divergence in Wound-Responsive Gene Expression between Domesticated and Wild Tomato. *Plant Cell* , 30(7), 1445-1460

Chen G.-H., [Liu M.-J.](#), Xiong Y., Sheen J. and Wu S.-H.*

TOR and RPS6 transmit light signals to enhance protein translation in deetiulating Arabidopsis seedlings. *Proc Natl Acad Sci USA* , 115(50), 12823-12828.

2016

Liu T.-L., Newton L., [Liu M.-J.](#), Shiu S.-H., Farre E.-M.*

A G-Box-Like Motif Is Necessary for Transcriptional Regulation by Circadian Pseudo-Response Regulators in Arabidopsis. *Plant physiology* , 170(1), 528-539

2015

[Liu M.-J.](#), Seddon A.-E., Tsai Z. T.-Y., Major I.-T., Floer M., Howe G.-A. and Shiu S.-H.*

Determinants of nucleosome positioning and their influence on plant gene expression. *Genome Research* , 25(8), 1182-1195