



Congratulations to all winners!!!

**ABRC 23rd Annual Poster Competition 2022
Outstanding Poster Award Winners**

(based on the evaluation of ABRC faculty and invited reviewers)

Integrative Plant Stress Biology (iPSB)

Pao-Yuan Hsiao (蕭保元)

Evolutionary conserved ERFVII transcriptional factors forming similar regulatory loops mediate submergence responses in Brachypodium and rice

*Pao-Yuan Hsiao[#], Cyong-Yu Zeng and Ming-Che Shih**

Agricultural Biotechnology Research Center, Academia Sinica, Taipei 11529, Taiwan

Chi-Hsin Chang (張琪昕)

The phyto cytokine AtCAPE9 and its receptor AtCAPER1 functions on plant systemic stomatal immunity

Chi-Hsin Chang¹, Kai-Tan Cheng¹, Ying-Lan Chen^{1,2} and Yet-Ran Chen^{1}*

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²Department of Biotechnology and Bioindustry Sciences, NCKU, Tainan, Taiwan, 701

Pei-Shan Chien (簡佩珊)

Hunting New Players in Governing Phosphate-related Traits Using Phosphate-responsive TWAS in Arabidopsis

Pei-Shan Chien¹, Pin-Hua Chen¹, Cheng-Ruei Lee^{2}, Tzyy-Jen Chiou^{1*}*

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Puyam Tondonba Singh (金甫陽)

Chromosomal deletion and aerenchyma development of Fusarium wilt TR4 resistant TBRI banana clones

Puyam Tondonba Singh^{1,2}, Yi-Heng Tsai¹, Bo-Han Hou¹, Ho-Ming Chen¹

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Chia-Ying Lin (林嘉音)

The role of *Arabidopsis* NON-EXPRESSOR OF PATHOGENESIS RELATED GENES1 in thermotoleranc

Chia-Ying Lin^{1,2}, *Hsin-Hung Yeh*^{1,3,4*}, *Yee-yung Charng*^{1,2,*}

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³Department of Plant Pathology and Microbiology, National Taiwan University, Taipei, Taiwan, 106

⁴Institute of Biotechnology, National Taiwan University, Taipei, Taiwan, 10

Tsung-Chi Chen (陳宗祺)

MaSAP8 and MaSAP16 confers banana resistance to Fusarium wilt tropical race 4

Yuh Tzean^{#1}, *Tsung-Chi Chen*^{#1}, *Bo-Han Hou*¹, *Shu-Ming Tsao*¹, *Ming-Chi Lee*¹, *Sabnam Rai*², *Chih-Ping Chao*⁴, *Chen-Chyii Chuan*¹, *Li Chang*¹, *Chia-Ying Lin*¹, *Kuei-Jr Liao*¹, *Ho-Ming Chen*^{1*}, *Wei-Chiang Shen*^{2*}, *Hsin-Hung Yeh*^{1,2,3*}

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Wan-Yin Han (韓宛縈)

Arabidopsis mRNA decay landscape shaped by XRN 5'-3' exoribonucleases

Wan-Yin Han^{1,2,3}, *Bo-Han Hou*¹, *Wen-Chi Lee*¹, *Tze-Ching Chan*¹, *Tzu-Hsiang Lin*¹, *Ho-Ming Chen*^{1,2,4}

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Yu-Chun Hsiao (蕭仔君)

Root growth factor 1 (RGF1) controls the PLETHORA 2 (PLT2) protein stability by redox-based modification in root meristem

Yu-Chun Hsiao^{1,2,#}, *Yi-Han Weng*^{1,2,#}, *Shiau-Yu Shiue*^{1,2,#}, *Masashi Yamada*^{1,2,*}

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Hung-Chi Liu (劉宏基)

Cytosolic phosphoglucose isomerase is essential for microsporogenesis and embryogenesis in *Arabidopsis*

Hung-Chi Liu¹, Hsiu-Chen Chen¹, Tzu-Hsiang Huang¹, Wei-Ling Lue², Jychian Chen², Der-Fen Suen^{1,}*

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Yen-Ning Chen (陳彥甯)

To visualize nitrate dynamics *in vivo* using a genetically encoded fluorescent biosensor

Yen-Ning Chen¹, Heather N. Cartwright², and Cheng-Hsun Ho^{1,}*

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²Advanced Imaging Center, Howard Hughes Medical Institute Janelia Research Campus, Ashburn, VA 20147, USA

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Herbal Medicine Research (HMR) or Molecular Vaccine Technology (mVT) or Enzyme Biotechnology

Jeng-Yuan Shiau (蕭証元)

Deoxyelephantopin and its derivative DETD-35 affect mitochondrial proteome and bioenergetics in triple negative breast cancer cells

Jeng-Yuan Shiau^{1,#}, Han-Jung Huang^{1,2,#}, Lie-Fen Shyur^{1,2,}*

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Dorothy Kazuno So

Engineered 4th generation CAR-NK and its effect and modulation within tumour immune microenvironment seen in multiplex imaging and single cell technologies

Dorothy Kazuno So^{1,2}, Shu-Han Yu¹, Shih-Yu Chen²

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Meng-Ting Chang (張孟亭)

Phyto-sesquiterpene lactones DET and DETD-35 are novel GPX4 inhibitors to overcome vemurafenib resistance in cutaneous melanoma

Meng-Ting Chang^{1,2}, Li-Chu Tsai³, Kyoko Nakagawa-Goto⁴, Kuo-Hsiung Lee⁵, Lie-Fen Shyur^{1,2,}*

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⁵Natural Products Research Laboratories, Eshelman School of Pharmacy, University of North Carolina, Chapel Hill, North Carolina 27599, USA

Chih-Ting Chang (張智婷)

A novel plant extract prevents contact dermatitis through deregulating proinflammatory enzymes and lipid mediators

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