



March 2017 Issue

PUBLICATIONS

Arrington J.V., C.-C. Hsu, and **W.A. Tao**. 2017. Kinase assay-linked phosphoproteomics: discovery of direct kinase substrates. *Methods Enzymol.* **586**: 453 – 471.

Cholewa, B.D., M.A. Ndiaye, W. Huang, **X. Liu** and N. Ahmad. 2017. Small molecule inhibition of polo-like kinase 1 by volasertib (BI 6727) causes significant melanoma growth delay and regression in vivo. *Cancer Lett.* **385**: 179 – 187.

Duan C.-G., X. Wang, S. Xie, L. Pan, D. Miki, K. Tang, C.-C. Hsu, M. Lei, Y. Zhong, Y.-J. Hou, Z. Wang, Z. Zhang, S.K. Mangrauthia, H. Xu, H. Zhang, **B. Dilkes**, **W.A. Tao**, and J.-K. Zhu. 2017. A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. *Cell Res.* **27**: 226 – 240.

Kanwal, R., M. Datt, **X. Liu**, and S. Gupta. 2016. Dietary flavones as dual inhibitors of DNA Methyltransferases and Histone Methyltransferases. *PLoS One.* **11**(12): e0162956.

Li, J., D. Gu, S.S.-Y. Lee, B. Song, S. Bandyopadhyay, S. Chen, S.F. Konieczny, T.L. Ratliff, **X. Liu**, J. Xie, and J.-X. Cheng. 2016. Abrogating cholesterol esterification suppresses growth and metastasis of pancreatic cancer. *Oncogene.* **35**: 6378 – 6388.

Yue, F., P. Bi, C. Wang, J. Li, **X. Liu**, and S. Kuang. 2016. Conditional loss of Pten in myogenic progenitors leads to postnatal skeletal muscle hypertrophy but age-dependent exhaustion of satellite cells. *Cell Rep.* **17**: 2340 – 2353.

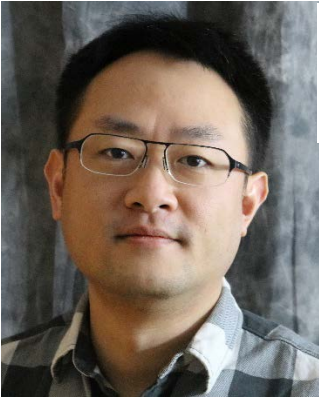
Zeng L, W.-H. Shin, X. Zhu, S.H. Park, C. Park, **W.A. Tao** and D. Kihara. 2017. Discovery of nicotinamide adenine dinucleotide binding proteins in the *Escherichia coli* proteome using a combined energetic- and structural-bioinformatics-based approach. *J Proteome Res.* **16**:470 – 480.

AWARDS & RECOGNITION

Andy Tao and Victor Rodwell were recognized during the 12th annual Inventors Recognition Reception held on February 7 for their invention(s) that were patented in the 2015 – 2016 fiscal year. They were two of the more than 100 other Purdue innovators recognized at the reception sponsored by the Purdue Research Foundation Office of Technology Commercialization.

Andy Tao was elected to serve a 3-year term on the Board of Directors for the US Human Proteome Organization (USHUPO). USHUPO engages in scientific and educational activities to encourage the use of proteomics technologies and to disseminate knowledge pertaining to the human proteome and that of model organisms.

NEW FACES



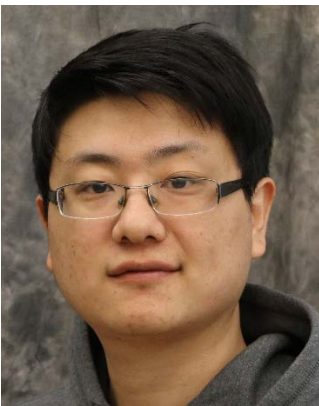
Syu-Jhe (Keith) Chien (Liu lab), graduate student in Comparative Pathobiology.



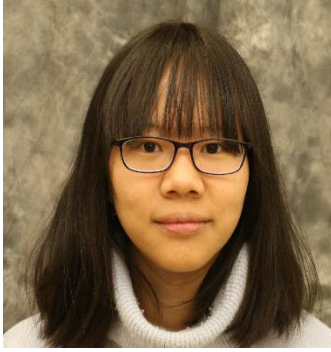
Chaohao Li (Liu lab), graduate student in Animal Sciences.



Naimur Rahman (Liu lab), graduate student in Animal Sciences.



Lin Xu (Liu lab), graduate student in Animal Sciences.



Qian Zhang (Liu lab), graduate student in Animal Sciences.

DEPARTMENT NEWS

Graduate students and postdoctoral researchers from the Dudareva lab participated in the 2017 Annual Meeting of Midwestern section of ASPB, February 4 – 5, Purdue University. Graduate student Laura Henry gave a talk entitled “Utilizing the archaeobacterial mevalonic acid pathway for enhanced metabolic engineering of terpenoids in plants” and post-doc Benoit Boachon gave a talk entitled “Volatiles need an ABC transporter to be emitted from the cell”. The following posters were presented at the meeting “Improving Biofuel Viability: Metabolic Engineering of Arabidopsis for Production of 2-Phenylethanol” by Joseph Lynch, “Unlocking the chemical diversity of Lamiaceae through *de novo* transcriptome assembly and chemical profiling” by Matthew Kilgore, “Elucidating the role of synaptic vesicle protein 2 in volatile organic compound emission” by Ryan Benke, and “Auxiliary roles of Peroxisomal Thioesterases in plants” by Funmilayo Adebisin.

The Dudareva lab also participated in Purdue University Sigma Xi poster night on February 14, 2017. Post-doc Joseph Lynch was awarded a 1st place for his poster “Improving biofuel viability: metabolic engineering of Arabidopsis for production of 2-Phenylethanol”. Laura Henry presented a poster “Engineering terpenoids in plants via the archeal mevalonic acid pathway, Ryan Benke presented a poster “Elucidating the role of synaptic vesicle protein 2 in volatile organic compound emission”, and Matthew Kilgore presented a poster “Unlocking the Chemical Diversity of Lamiaceae through *de novo* transcriptome assembly and chemical profiling”.

GRADUATE STUDENT NEWS

Norman Best (Dilkes lab) received a fellowship award from the National Institute of Food & Agriculture for his project titled “Brassinosteroids interact with gibberellic acid and strigolactones to control maize plant architecture.” The funding is \$88,326, and the project period is from 1/15/2016 – 1/14/2019.

GOING THE EXTRA MILE

Xiaoqi Liu attend an NIH study section: P01 Special Emphasis Panel, in Washington, D.C. from February 9 – 10. He also attended an NIH study section: Cancer Biomarker in Los Angeles, CA from February 16 – 17.

STRICTLY PERSONAL



Congratulations to Jie Li (Liu lab) and his wife Miki Fujiwara on the birth of their son Kento on January 27. Kento was 7.2 pounds and 19.6 inches long. Congratulations Jie and Miki.



Andy Tao and his lab members went on their annual ski trip to Perfect North Ski Slopes in Lawrenceburg, IN on February 18.

BIRTHDAYS

Ann Kirchmaier

Ji Li

Beth Tran

Lee Weith

Cindy Xing

UPCOMING EVENTS

2017 College of Agriculture Distinguished Ag Alumni Recipient Seminar

(11:00 a.m. in Whistler 116)

March 3 – Robert (Bob) Deschenes, PhD (1984)

Biochemistry Speaker Seminars

(Tuesdays at 3:30 – 4:30 p.m. in Whistler Hall, Rm. 116)

March 7 – Ying Li - Purdue Univ., Horticulture and Landscape Architecture

March 21 – Jennifer Benanti - Univ. of Massachusetts Medical School, Dept. of Molecular, Cell and Cancer Biology

March 28 - Chris Overall - Univ. of British Columbia, Dept. of Oral Biological and Medical Sciences

Biochemistry Graduate and Postdoc Seminars

(Every other Friday at 12:30 – 1:30 p.m. in Whistler 116)

March 10 – Brett Bishop (Ogas lab) & Peng Wang (Chapple lab)

March 24 – Longyun Guo (Chapple/Morgan lab) & Nina Serratore (Briggs lab)