



August 10th, 2017

CNS Annual Report: MBS Publications

1. Yuan, J., Jiao, W., Wang, L., Ma, Y., Ye, W., Jin, Z., Lu, J., Hong, D., You, S., Cheng, Z., and **Chen, Z. J.** (2017) Both maternally and paternally imprinted genes regulate seed development in rice. *New Phytologist*. [PubMed](#)
2. Song, Q., Zhang, T., Stelly, D. M., and **Chen, Z. J.** (2017) Epigenomic and functional analyses reveal roles for epialleles in the loss of photoperiod sensitivity during domestication of allotetraploid cottons. *Genome Biology* 18:99. *Genome Biology* 18:99. [PubMed](#)
3. A.G. Malyutin, S. Musalgaonkar, S. Patchett, J. Frank and **A.W. Johnson** (2017) Nmd3 is a structural mimic of eIF5A, and activates the cpGTPase Lsg1 during 60S ribosome biogenesis. *EMBO J.* 2017 Apr 3;36(7):854-868. doi: 10.15252/embj.201696012.
4. S. Amarnath, L.M. Stevens and **D.S. Stein** (2017) Reconstitution of Torso signaling in cultured cells suggests a role for both Trunk and Torso-like in receptor activation. *Development* 144(4):677-686.
5. Wang L., Zhang F., Rode S., Ko E., Kim J., Lyer V and **Qiao H*** (2017) Ethylene induces combinatorial effects of histone H3 acetylation in gene expression in Arabidopsis. *BMC genomics* 18:538
6. Zhang, F., Wang, L., Qi, B., Zhao, B., Ko E., Riggan, ND., Kevin C and **Qiao H*** (2017) Ethylene mediates direct regulation of histone acetylation in the ethylene response. *Proceedings of the national Academy of Science USA*. Accepted with minor revision
7. N.S. Abell, M. Mercado, T. Caneque, R. Rodriguez and **B. Xhemalce** (2017) Click-Quantitative Mass Spectrometry Identifies PIWIL3 as a Mechanistic Target of RNA Interference Activator Enoxacin in Cancer Cells. *J Am Chem Soc.* 139(4):1400-1403.
8. J.W. Leung, N. Makharashvili, P. Agarwal, L-Y. Chiu, R. Pourpre, M.B. Cammarata, J.R. Cannon, A. Sherker, D. Durocher, J.S. Brodbelt, T.T. Paull and **K.M. Miller** (2017) ZMYM3 regulates BRCA1 localization at damaged chromatin to promote DNA repair. *Genes & Development* 31(3):260-274.
9. Kim, S.J., Schätzle, Sohail, S.A., Haap, W., Jang, s.-H., Gregersen, P.K. **Georgiou, G.** and B. Diamond (2017) "Increased Cathepsin S in *Prdm1*^{-/-} Dendritic Cells Alters TFH

Repertoire and Contributes to Lupus," *Nature Immunology* doi: [10.1038/ni.3793](https://doi.org/10.1038/ni.3793) [Epub ahead of print] PMID: 28692065.

10. Lee, C.-H., Romain, G., Yan, W., Watanabe, W., Charab, W., Todorova, B., Lee, Y., Triplett, K., Donkor, M., Lungu, O.I., Lux, A., Marshall, N., Lindorfer, M.A., Richard-Le Goff, O., Balbino, B., Kang, T.H., Tanno, H., Delidakis, G., Alford, C., Taylor, R.P., Nimmerjahn, F., Varadarajan, N., Bruhns, P. Zhang, Y.J. and **G. Georgiou** (2017) "IgG Fc Domains that Bind C1q but not Effector Fcγ Receptors Delineate the Significance of Complement-Dependent Cell-Mediated Cytotoxicity and Phagocytosis in Antibody Function" *Nature Immunology* doi: 10.1038/ni.3770. [Epub ahead of print] MID: 28604720
11. Williams, L.D., Ofek, G., Schatzle, S., McDaniel, J.R., Lu, X., Nicely, N.I., Wu, L., Loughheed, C.S., Bradley, T., Louder, M.K., McKee, K., Bailer, R.T., O'Dell, S., Georgiev, I.S., Seaman, M., Parks, R., Marshall, D., Anasti, K., Yang, G., Nie, X., Tumab, N., Wiehe, K., Wagh, K., Korber, B., Kepler, T., Alam, S.M., Morris, L., Kamanga, G., Choen, M.S., Bonsignori, M., Xia, S., Montefiori, D., Kelsoe, G., Gao, F., Mascola, J.R., Moody, M.A., Saunders, K.O., Liao, H., Tomaras, G.D., **Georgiou, G.** and B.F. Haynes (2017) "Potent and broad HIV-neutralizing antibodies in memory B cells and plasma", *Science Immunology* Vol. 2, Issue 7, doi: 10.1126/sciimmunol.aal2200
12. Cramer, S.L., Saha, A., Liu, J., Tadi, S., Tiziani, S., Yan, W., Triplett, K., Lamb, C., Alters, S.E., Rowlinson, S., Zhang, Y., Keating, M.J., Huang, P., DiGiovanni, J., **Georgiou, G.**, and E. Stone (2017) "Systemic Depletion of Serum L-Cyst(e)ine with an Engineering Human Enzyme Mediates Potent Induction of ROS Leading to Selective Cancer Ablation," *Nature Medicine* 23:120-127, doi: 10.1038/nm.4232 PMID: 27869804
13. Ko, D. K., Rohozinski, D., Song, Q., Taylor, S. H., Juenger, T. E., Harmon, F. G., **Chen, Z. J.** (2016) Temporal shift of circadian-mediated gene expression and carbon fixation contributes to biomass heterosis in maize hybrids. *PLoS Genetics* 12(7):e1006197. [PubMed](https://pubmed.ncbi.nlm.nih.gov/27011111/).
14. Lee, J., Boutz, D.R., Chromikova, V., Joyce, M.G., Vollmers, C., Leung, K., Horton, A.P., DeKosky, B.J., Lee, C.H., Lavinder, J.J., Murrin, E.M., Chrysostomou, C., Hoi, K.H., Tsybovsky, Y., Thomas, P.T., Druz, A., Zhang, B., Zhang, Y., Wang, L., Kong, W.P., Park, D., Popova, L.I., Dekker, C.L., Davis, M.M., Bloom, C.E., Ross, T.M., **Ellington, A.D.**, Wilson, P.C., **Marcotte, E.M.**, Mascola, J.R., Ippolito, G.C., Krammer, F., Quake, S.R., Kwong, P.D. and **Georgiou, G.** (2016) "Quantitative, Molecular-Level Analysis of the Serum Antibody Repertoire Reveals Unanticipated Features of the Response to Influenza Vaccine," *Nature Medicine* 22:1456-64 PMID: 27820605
15. J Xia, L.T. Chen, Q. Mei. C.H. Ma, J.A. Halliday, H.Y. Lin, D. Magnan, J.P. Pribis, D. M., Fitzgerald, H.M. Hamilton, M. Richters, R.B. Nehring, X. Shen, L. Li, D. Bates, P.J. Hastings, C. Herman, **M. Jayaram** and S.M. Rosenberg (2016) Holliday junction trap shows how cells use recombination and a junction guardian role of RecQ helicase. *Sci Adv* 18;2(11):e1601605.

16. Zhang, F., Qi, B., Wang, L., Zhao, B., Rode, S., Riggan, ND., Ecker JR and **Qiao H*** (2016) EIN2- dependent regulation of acetylation of histone H3K14 and non-canonical histone H3K23 in ethylene signaling. *Nature communications*. doi:10.1038/ncomms13018
17. Zhang F., Wang L., Lim J., Kim T., Pyo Y., Sung S., Shin C and **Qiao H*** (2016). Phosphorylation of CBP20 links microRNA to root growth in the ethylene response. *PLOS Genetics*, doi: 10.1371