

## **Dr. Michael Schläppi's Publications**

- 2018** Liu, C., Ou, S., Mao, B., Tang, J., Wang, W., Wang, H., Cao, S., Schläppi, M.R., Zhao, B., Xiao, G., Wang, X., and Chu, C. 2018. Early domestication of *bZIP73* facilitated adaptation of *japonica* rice to cold climates. *Nature Commun.* 9:3302.
- 2017** Schläppi, M., Jackson, A.K., Eizenga, G.C., Wang, A., Chu, C., Shi, Y., Shimoyama, N., and Boykin, D. 2017. Assessment of five chilling tolerance traits and GWAS mapping in rice using the USDA mini-core collection. *Front. Plant Sci.* 8: 957.
- Schläppi, M. 2017. Undergraduate Student Research Opportunities and Economic Revitalization through Urban Agriculture Initiatives. *Metropolitan Universities Journal* 28: 37-45
- 2015** Cecchini NM, Steffes K, Schläppi MR, Gifford A, Greenberg JT. 2015. Signal mobilization by AZI1-family proteins mediates systemic defence priming. *Nature Communications, in press.*
- 2014** Liu Y, Fang J, Fan X, Chu J, Yan C, Schläppi MR, Wang Y, Chu C. 2014. Expression patterns of ABA and GA metabolism genes and hormone levels during rice seed development and imbibition: a comparison of dormant and non-dormant rice cultivars. *J Genet Genomics* 41:327-338.
- Song, DW, Xin, N, Xie, BJ, Li, YJ, Meng, LY, Li, HM, Schläppi, M, Deng, YL. 2014. Formation of a salsolinol-like compound, the neurotoxin, 1-acetyl-6,7-dihydroxy-1,2,3,4-tetrahydroiso-quinoline, in a cellular model of hyperglycemia and a rat model of diabetes. *Int J Mol Med* 33:736-742.
- 2012** Xin, N., Li, Y.J., Li, X., Wang, X., Li, Y., Zhang, X., Dai, R.J., Meng, W.W., Wang, H.L., Ma, H., Schläppi, M., and Deng, Y.L. 2012. Dragon's blood may have radioprotective effects in radiation-induced rat brain injury. *Radiat Res.* 178(1):75-85.
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- 2011** Zhang, X., Xu, Z-Y., Schläppi M., and Xu, Z-Q. 2011. Inhibition of Arabidopsis AZI1 to the growth of *Saccharomyces cerevisiae* and infection of *Botrytis cinerea* of garlic sprout. *Plant Physiol. J.* 47: 57-62.
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- Xu, D., Huang, X., Xu, Z.Q., and Schläppi, M. 2011. The HyPRP gene EARLII has an auxiliary role for germinability and early seedling development under low temperature and salt stress conditions in *Arabidopsis thaliana*. *Planta*, 234: 565-577.
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- Xu, Z.Y., Zhang, X., Schläppi, M., and Xu, Z.Q. 2011. Cold-inducible expression of AZI1 and its function in improvement of freezing tolerance of *Arabidopsis thaliana* and *Saccharomyces cerevisiae*. *J Plant Physiol*, 168:1576-1587.

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- Schläppi, M. 2011. Genetic and physiological analysis of biennialism in *Hyoscyamus niger*. *Plant Biology*. 13:534-540.
- 2009** Chen, L-Y., Chen Q-L., Xu D., Hao, J-G., Schläppi, M., and Xu, Z-Q. (2009) Changes of gentiopicoside synthesis during somatic embryogenesis in *Gentiana macrophylla*. *Planta Med.*, 75: 1-7.
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- 2007** Zhang, Y. and M. Schläppi. 2007. The cold responsive EARLI1 type HyPRPs improve freezing survival of yeast and form higher order protein complexes in plants. *Planta*, 227:233-243.
- 2006** Schläppi, M.R. 2006. *FRIGIDA LIKE 2 (FRL2)* is a functional allele in Landsberg *erecta* and compensates for a nonsense allele of *FRL1*. *Plant Physiol*, 142:1728-1738.
- 2004** Bubier, J. and Schläppi, M. 2004. Cold induction of *EARLII*, a putative lipid transfer protein, is light and calcium-dependent. *Plant Cell & Environment*, 27:929-936.
- 2001** Schläppi, M. 2001. RNA levels and activity of *FLOWERING LOCUS C* are modified in mixed genetic backgrounds of *Arabidopsis thaliana*. *Int. J. Plant Sci.*, 162: 527-537.
- Schläppi, M. and M. Patel. 2001. Biennialism and vernalization-promoted flowering in *Hyoscyamus niger*: a comparison with *Arabidopsis*. *Flowering Newslet.*, 31: 25-32.
- 2000** Wilkosz, R. and M. Schläppi. 2000. A gene expression screen identifies *EARLII* as a novel vernalization-responsive gene in *Arabidopsis thaliana*. *Plant Mol. Biol.*, 44: 777-787.
- 1998-99** Raina, R., M. Schläppi, B. Karunanandaa, A. Elhofy and N. Federoff. 1998. Concerted formation of macromolecular *Suppressor-mutator* transposition complexes. *Proc. Natl. Acad. Sci. USA*, 95:8526-8531.
- 1996-97** Schläppi, M., R. Raina, and N. Federoff. 1996. A highly sensitive plant hybrid protein assay system based on the *Spm* promoter and TnpA protein for deduction and analysis of transcription activation domains. *Plant Mol. Biol.*, 32:717-725.
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- 1995-96** Federoff, N., M. Schläppi and R. Raina. 1995. Epigenetic regulation of the maize *Spm* transposon. *BioEssays*, 17:291-297.
- Escudero, J., G. Neuhaus, M. Schläppi and B. Hohn. 1996. T-DNA transfer in meristematic cells of maize provided with intracellular *Agrobacterium*. *Plant J.*, 10(1):101-106.
- 1994-95** Schläppi, M., R. Raina and N. Federoff. 1994. Epigenetic regulation of the maize *Spm* transposable element: novel activation of a methylated promoter by TnpA. *Cell*, 77:427-437.
- 1993-94** Schläppi, M. and N. Federoff. 1993. TnpA *trans*-activates *de novo* methylated *Suppressor-mutator* transposable elements in transgenic tobacco. *Maize Gen. Coop. Newslet.* 67: 11-12.

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