**Dr. Heike Bücking:**
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Interactions between arbuscular mycorrhizae and plants; nutrient uptake and transport.
[http://www.sdstate.edu/index/directory/directory-detail.cfm?view=detail&ci=2301](http://www.sdstate.edu/index/directory/directory-detail.cfm?view=detail&ci=2301" \t "_blank)

Papers:
[http://www.ncbi.nlm.nih.gov/pubmed/22308426](http://www.ncbi.nlm.nih.gov/pubmed/22308426%22%20%5Ct%20%22_blank)
[http://www.ncbi.nlm.nih.gov/pubmed/21836016](http://www.ncbi.nlm.nih.gov/pubmed/21836016%22%20%5Ct%20%22_blank)

**Dr. Erich Grotewold**

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Our group is interested in establishing the structure of plant gene regulatory networks and understanding the mechanisms underlying combinatorial gene regulation. The knowledge obtained is directed towards using metabolic pathway transcription factors for plant metabolic engineering. Complementing our efforts to manipulate entire metabolic pathways with regulatory factors, our lab investigates the means by which products of specialized metabolism move within cells.

Zhiponova, M. K., K. Morohashi, I. Vanhoutte, K. Machemer-Noonan, M. Revalska, M. Van Montagu, E. Grotewold and E. Russinova (2014). Helix–loop–helix/basic helix–loop–helix transcription factor network represses cell elongation in Arabidopsis through an apparent incoherent feed-forward loop. *Proceedings of the National Academy of Sciences* **111**(7): 2824-2829.

Bolduc, N., A. Yilmaz, M. K. Mejia-Guerra, K. Morohashi, D. O'Connor, E. Grotewold and S. Hake (2012). Unraveling the KNOTTED1 regulatory network in maize meristems. *Genes & development* **26**(15): 1685-1690.