

Annika Lingner

Publications in refereed journals and refereed conference proceedings

2016

Avenhaus, U.; Cabeza, R.A.; Liese, R.; Sulieman, S.; **Lingner, A.**; Dittert, K.; Salinas-Riester, G.; Pommerenke, C. & Schulze, J. (2016) Short-term molecular acclimation processes of legume nodules to increased external oxygen concentration. *Frontiers in Plant Science* 6, 1133.

Senbayram, M.; Wenthe, C.; **Lingner, A.**; Isselstein, J.; Steinmann, H.; Kaya, C. & Köbke, S. (2016): Legume-based mixed intercropping systems may lower agricultural born N₂O emissions. *Energy Sustain. Soc.* 6. <https://doi.org/10.1186/s13705-015-0067-3>.

2015

Cabeza, R.A.; Liese, R.; Fischinger, S.A.; Sulieman, S.; Avenhaus, U.; **Lingner, A.**; Hein, H.; Koester, B.; Baumgarten, V.; Dittert, K. & Schulze, J. (2015) Long-term non-invasive and continuous measurements of legume nodule activity. *Plant Journal* 81, 637-648.

2014

Cabeza, R.; Koester, B.; Liese, R.; **Lingner, A.**; Baumgarten, V.; Dirks, J.; Salinas-Riester, G.; Pommerenke, C.; Dittert, K. & Schulze, J. (2014) A RNA sequencing transcriptome analysis reveals novel insights into molecular aspects of the nitrate impact on the nodule activity of *Medicago truncatula*. *Plant Physiol.*, 164, 400-411.

Cabeza, R.A.; Liese, R.; **Lingner, A.**; von Stieglitz, I.; Neumann, J.; Salinas-Riester, G.; Pommerenke, C.; Dittert, K. & Schulze, J. (2014) RNA-seq transcriptome profiling reveals that *Medicago truncatula* nodules acclimate N₂ fixation before emerging P deficiency reaches the nodules 3. *J. Exp. Bot.* 65, 6035-6048.

Cabeza, R.A.; **Lingner, A.**; Liese, R.; Sulieman, S.; Senbayram, M.; Tränkner, M.; Dittert, K. & Schulze, J. (2014) The activity of nodules of the supernodulating mutant Mt(sunn) is not limited by photosynthesis under optimal growth conditions, 5. *International Journal of Molecular Sciences* 15, 6031-6045.

Conference talks

Lingner, A.; Dittert, K. & Pfeiffer, B. (2018): The cropping system matters – Contrasting responses of winter faba bean genotypes to drought stress. EUCARPIA Symposium on Breeding for Diversification, February 19th - 21st, Witzenhausen, Germany.

Lingner, A. & Dittert, K. (2017): Remote sensing of productivity and water use in legume-based mixed cropping systems. 60. Jahrestagung der Gesellschaft für Pflanzenbauwissenschaften e.V. (GPW), September 26th - 28th, Witzenhausen, Germany.

Lingner, A.; Dittert, K. & Senbayram, M. (2016): Water use efficiency and drone-based spectral screening of productivity in mixed cropping systems. Second International Legume Society Conference (ILS), October 11th - 14th, Tróia, Portugal.

Conference poster

Lingner, A.; Dittert, K. & Pfeiffer, B. (2018): The cropping system matters – Contrasting responses of winter faba bean genotypes to drought stress. PLANT 2030 Status Seminar, February 05th - 07th, Potsdam, Germany.

Lingner, A.; Pfeiffer, B. & Dittert, K. (2017): Performance and drought stress response of winter faba bean genotypes in mixed cropping with winter wheat. XVIII. International Plant Nutrition Colloquium (IPNC), August 21st - 24th, Copenhagen, Denmark.

Lingner, A.; Pfeiffer, B. & Dittert, K. (2017): Winter faba bean growth in pure and mixed stands under water deficit conditions in the greenhouse. PLANT 2030 Status Seminar, February 20th - 22nd, Potsdam, Germany.

Jákli, B., Senbayram, M.; Meyer zur Müdehorst, J.; Fuchs, M.; Böttcher, F.; Hertwig, F.; **Lingner, A.** & Dittert, K. (2016) Drone-based remote screening of water-use efficiency. 75th Congress of the International Institute for Beet Research (IIRB), February 16th – 17th, Brussels, Belgium.

Lingner, A. & Dittert, K. (2016): Spectral screening of legume-based mixed cropping systems using NDVI imaging. Internationale Pflanzenbautagung, November 17th - 18th, Bernburg, Germany.

Lingner, A.; Dittert, K. & Senbayram, M. (2016): Traits for water use in mixed cropping systems. PLANT 2030 Status Seminar, March 14th - 16th, Potsdam, Germany.

Lingner, A.; Siebrecht, D.; Senbayram, M.; Link, W. & Dittert, K. (2016): Productivity of legume-based mixed cropping systems as estimated by NDVI imaging. International Conference of the German Society of Plant Nutrition (DGP), September 28th - 30th, Hohenheim, Germany.

Lingner, A.; Dittert, K.; Steinmann, H.; Isselstein, J.; Link, W. & Senbayram, M. (2015): Traits for water and nutrient use in mixed cropping systems. International Conference of the German Society of Plant Nutrition (DGP), September 17th - 18th, Göttingen, Germany.