

Dr. Bálint Jákli

Publikationen in begutachteten Zeitschriften

- Jákli, B.;** Tavakol, E.; Tränkner, M.; Senbayram, M. & Dittert K (2017): Quantitative limitations to photosynthesis in K deficient sunflower and their implications on water-use efficiency. *J. Plant Physiol.* 209, 20-30.
- Tränkner, M.; **Jakli, B.;** Tavakol, E.; Geilfus, C.M.; Cakmak, I.; Dittert, K. & Senbayram, M. (2016): Magnesium deficiency decreases biomass water-use efficiency and increases leaf water-use efficiency and oxidative stress in barley plants. *Plant Soil* 406, 409-423.
- Jákli, B.;** Tränkner, M.; Senbayram, M. & Dittert, K. (2016): Adequate supply of potassium improves plant water-use efficiency but not leaf water-use efficiency of spring wheat. *J. Plant Nutr. Soil Sci.* 179, 733-745.
- Otieno, D.O.; K'Otuto, G.O.; **Jákli, B.;** Schröttle, P.; Maina, J.N.; Jung, E. & Onyango, J.C. (2011): Spatial heterogeneity in ecosystem structure and productivity in a moist Kenyan savanna. *Plant Ecol.* 212: 769-783.

Redebeiträge bei Konferenzen

- Jákli, B.;** Tavakol, E.; Tränkner, M. & Dittert, K. (2017): Restricted CO₂ diffusion through the leaf mesophyll and not stomatal regulation limits photosynthesis in K deficient sunflower. International Plant Nutrition Colloquium (IPNC), August 21st – 24th, Copenhagen, Denmark.
- Jákli, B.;** Tränkner, M.; Tavakol, E. & Dittert, K. (2017): Restricted CO₂ diffusion through the leaf mesophyll and not stomatal regulation limits photosynthesis in K deficient crop plants. *Frontiers of Potassium*, January 25th – 27th, Rome, Italy.
- Jákli, B.;** Senbayram, M.; Tränkner, M.; Tavakol, E. & Dittert, K. (2015): Der Einfluss von Kalium auf die Wassernutzungseffizienz von Weizen – vom einzelnen Blatt zur gesamten Pflanze. International Conference of the German Society of Plant Nutrition (DGP), September 17th – 18th, Göttingen, Germany.
- Jákli, B.;** Senbayram, M.; Tränkner, M.; Tavakol, E. & Dittert, K. (2015): The role of potassium in optimizing water-use efficiency and drought adaptation - from single leaves to whole plants. 45th Annual Meeting of the Ecological Society of Germany, Austria and Switzerland (GfÖ), August 31st – September 04th, Göttingen, Germany.

Poster bei Konferenzen

Tränkner, M.; Senbayram, M.; Jákli, B.; Halicki, S.; Dittert, K. & Zörb, C. (2017): Comparative Study on Proteome Changes in Response to Potassium Deficiency and Drought in *Triticum aestivum* Roots. Frontiers of Potassium Science Conference, January 25th – 27th, Rome, Italy.

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.

Jákli, B.; Tränkner, M. & Senbayram, M. (2014): Effects of potassium deficiency on water use efficiency of *Triticum aestivum*. International Conference of the German Society of Plant Nutrition (DGP), September 10th – 12th, Halle (Saale), Germany.

Tavakol, E.; Tränkner, M.; **Jákli, B.**; Dittert, K. & Senbayram, M. (2014): Adequate K supply enhances tolerance to drought situations via optimized NPQ and antioxidant activity in spring wheat. International Conference of the German Society of Plant Nutrition (DGP), September 10th – 12th, Halle (Saale), Germany.

Weitere Publikationen

Jákli, B. & Hertwig, F. (2017): Kaliumdüngung verbessert die Wassernutzungseffizienz – Ertrag, Evapotranspiration und Skalenabhängigkeit. 13. Tag der Agrarmeteorologie, January 11th, Deutscher Wetterdienst (DWD), Leipzig, Germany.

Jákli, B. (2016): The relation between potassium nutrition and water-use efficiency of crop plants – Comparative studies from leaf to field scale. 1st ed. Cuvillier Verlag, Göttingen. ISBN 978-3-7369-9430-0. eISBN 978-3-7369-8430-1.

Thiel, H. & **Jákli, B.** (2016): Kalium erhöht die Wassernutzungseffizienz pflanzlicher Systeme. Kali & Steinsalz 03/2016, 38-47.