

Die Gesellschaft für Pflanzenbauwissenschaften (GPW) teilt mit:

Habilitationen und Promotionen in den Pflanzenbauwissenschaften

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Habilitationen in Pflanzenbauwissenschaften

Dr. Waqas MALIK, 2020, Universität Hohenheim: Modelling data from single and multiple trials in plant breeding and genetics research: New perspectives and challenges

Dr. Kathrin STENCHLY, 2020, Universität Kassel: Effects of urbanisation-induced changes in agricultural land use intensity on ecosystem services, landscape function and farmers' livelihood in West African cities

Dr. Sophie GRAEFE, 2021, Universität Kassel: Functioning and resilience of tree-based land use systems in the tropics

Dr. Bettina FÄHNRIK, 2020, Universität für Bodenkultur Wien: Medicinal plants and their secondary plant metabolites – issues of breeding, analytics and use in feed supplementation

Dr. Jakob SANTNER, 2021, Universität für Bodenkultur Wien: Visualising sub-millimetre nutrient distribution in the rhizosphere for understanding root nutrient acquisition processes

Promotionen in Pflanzenbauwissenschaften

Prof. Dr. Sonoko Dorothea BELLINGRATH-KIMURA, Humboldt-Universität zu Berlin

MA, Hua, 2019: Systematic analysis of biochar performance on plant growth in soybean cropping system in Germany and China

PÖTZSCH, Frank, 2019: Schwefel - Bedarf, Akkumulation und Düngung von Ackerbohne, Schmalblättriger Lupine und Erbse in Reinsaat sowie Erbse und Gerste im Gemenge unter Feldbedingungen

FESTO, Richard, 2019: Simulation of water productivity for maize under drip irrigation

ELSAHAHY, Heba, 2021: Effects of mixing alsike clover and black medic in variable environments

Prof. Dr. Ralf PUDE, Rheinische Friedrich-Wilhelms-Universität Bonn

KLEIN, Stefanie, 2020: Synthese und Charakterisierung von funktionalen Lignin-basierten Polyurethan-Coatings

RÖPER, Karoline, 2021: Möglichkeiten zur Nutzung der Koppelprodukte von Erbsen und Ackerbohnen in Biogasanlagen und deren Effekte auf die Folgekultur Winterweizen

LUHMER, Katharina, 2021: Anbauoptimierung durch Mischanbau und inhaltsstoffliche sowie sensorische Qualitätseigenschaften morphinarter Winter- und Sommermohnsorten (*Papaver somniferum* L.)

Prof. Dr. Bernd HONERMEIER, Justus-Liebig-Universität Gießen

RUSO, Marco, 2019: Investigations on the effect of light reduction on yield, growth, and secondary metabolites of lemon balm (*Melissa officinalis* L.)

STUMPF, Beate, 2019: Influence of N fertilization on phenolic compounds and antioxidant properties in different organs of winter wheat (*Triticum aestivum* ssp. *aestivum* L. em. Thell.),

and optimization of the extraction procedure for phenolic acids and flavonoids from leaves

SADEGHI, Aitak, 2020: Effect of biochar, FYM and varying inorganic fertilization (NPK) on soil parameters, crop yield formation and NPK uptake in two long term field experiments

TADESSE, Betre, 2020: Studies on the biological and molecular variation among seven isolates of *Pratylenchus penetrans* from different geographical locations in Europe

HEES (KLUSSMANN), Julia, 2020: Backqualität von Winterweizen bei variierender Stickstoff-Düngung und unter Berücksichtigung modifizierter Bewertungskriterien

OSTER-MILLER, Sabine, 2020: Einfluss unterschiedlicher Kultivierungsmethoden auf Wachstum, Blattertrag und Gehalt an Tropanalkaloiden von *Duboisia* sp.

Prof. Dr. Hartmut STÜTZEL, Leibniz Universität Hannover

LICHTHARDT, Carolin, 2020: Impact of breeding innovations in canopy architecture and function on yield formation in winter wheat

MYINT, San Shwe, 2020: Modelling morphological and physiological responses of tomato introgression lines to drought stress

PAO, Yi-Chen, 2021: Functional control of photosynthetic nitrogen in heterogeneous plant canopies

Prof. Dr. Frank ORDON, Julius Kühn-Institut Quedlinburg

LEHNERT, Heike, 2019: Estimation of the genetic diversity in wheat (*Triticum aestivum* L.) regarding mycorrhization of roots and its impact on drought stress tolerance

FAZLIKHANI, Leila, 2020: High resolution mapping of RphM-BR1012 conferring resistance to *Puccinia hordei* in barley (*Hordeum vulgare* L.)

KARLSTEDT, Frances, 2020: Identification and mapping of QTL for resistance against *Zymoseptoria tritici* in the winter wheat accession HTRI1410 (*Triticum aestivum* L. subsp. *spelta*)

NOVAKAZI, Fluturë, 2020: Identification of QTL for resistance against two fungal pathogens, *Pyrenophora teres* f. *teres* and *Bipolaris sorokiniana*, in a barley (*Hordeum vulgare* L.) diversity set

BREIDENBACH, Caroline, 2020: High-resolution mapping of a QTL for Fusarium Head Blight resistance on chromosome 2A in *Triticum monococcum*

PHILIPPI, Jasmin, 2020: Selection of lupin genotypes with resistance against aphids and its dependence on quinolizidine alkaloid content and composition

MEISE, Philipp, 2020: Analysis of genotypic differences in biochemical and physiological adjustments to N-deficiency and drought stress in potatoes (*Solanum tuberosum* L.) with consideration of yield components

ENDERS, Matthias, 2021: Development and application of a molecular resource for improving drought stress tolerance in rye (*Secale cereale* L.)

Prof. Dr. Simone GRAEFF-HOENNINGER, Universität Hohenheim

KHAJEHEI, Forough, 2019: Yacon (*Smallanthus sonchifolius* Poepp. & Endl.) – the potential of a neglected crop as an alternative sweetener and source of phytochemicals for functional foods

STOCKMANN, Falko, 2020: Agronomic strategies to reduce potential precursors of acrylamide formation in cereals

SCHULZ, Vanessa, 2020: Managing trees on arable land

KAMP, Larissa, 2020: A cropping system for yacon (*Smallanthus sonchifolius* Poepp. & Endl.): optimizing tuber formation, yield and sugar composition under European conditions

RÖLL, Georg, 2020: Combining remote sensing and crop modeling techniques to derive a nitrogen fertilizer application strategy

HITZ, Tina, 2020: Exploring and modelling the influence of spectral light composition on soybean (*Glycine max* (L.) Merr.)

GRIMES, Samantha, 2021: Screening and cultivation of chia (*Salvia hispanica* L.) under Central European conditions: The potential of a re-emerged multipurpose crop

STEBERL, Kathrin, 2021: Coloring foods – development of a suitable cultivation and harvesting system for florets of safflower (*Carthamus tinctorius* L.)

BURGEL, Lisa, 2021: The bioeconomy potential of hemp (*Cannabis sativa* L.): challenges of new genotypes and cultivation systems to meet the rising demand for phytocannabinoids

Prof. Dr. Iris LEWANDOWSKI, Universität Hohenheim

MANGOLD, Anja, 2019: How can miscanthus be integrated most efficiently into agricultural production systems?

KIESEL, Andreas, 2020: The potential of miscanthus as biogas feedstock

WINKLER, Bastian, 2021: Integrated rural and urban agricultural systems for the sustainability transition towards the bioeconomy

Prof. Dr. Hans-Peter PIEPHO, Universität Hohenheim

SCHMIDT, Paul, 2019: Estimating heritability in plant breeding programs

DAMESA, Tigest, 2019: Weighting methods for variance heterogeneity in phenotypic and genomic data analysis for crop breeding

BUNTARAN, Harimurti, 2021: Statistical methods for analysis of multi-environment trials in plant breeding: accuracy and precision

Prof. Dr. Andreas BÜRKERT, Universität Kassel

KHANAL, Gunadhis, 2019: Manure application effects on nitrogen pools in a subtropical soil of Oman

AMPRAKO, Louis Kwaku, 2020: Challenges to ecosystem services of sustainable agriculture in West Africa

NAWAZ, Muhammad Arslan, 2021: Assessment and use of sea buckthorn and apple diversity in northern Pakistan

Prof. Dr. Michael WACHENDORF, Universität Kassel

DAYABABDA, Supriya, 2019: Modelling nitrogen and fibre contents of major arable crops by spectral imaging

GRÜNER, Esther, 2020: Assessment and importance of crop productivity for future organic biomass production systems

JOSEPH, Ben, 2020: Technical and environmental assessment of energy and material production from rural and urban residual biomass

KYERE, Isaac, 2020: Monitoring the impact of bioenergy production on land cover and its change in time

WIJESINGHA, Jayan, 2020: Fine-scale grassland monitoring using unmanned aerial vehicle borne remote sensing

SCHULZE-BRÜNINGHOFF, Damian, 2021: Remote sensing of structural and functional characteristics of grasslands invaded by the large-leaved lupine

Prof. Dr. Friedhelm TAUBE, Christian-Albrechts-Universität zu Kiel

LOZA ACOSTA, Cecilia, 2021: Examining the impact of different grass-legume mixtures on milk quality and methane emissions in pasture-based milk production systems

NYAMEASEM, John Kormla, 2021: Diverse forage production systems and their potential for greenhouse gas mitigation

SMIT, Hendrik Petrus Jordaan, 2021: Mitigation strategies to reduce greenhouse gas emissions and nitrogen losses from pasture-based dairy systems

Prof. Dr. Bettina EICHLER-LÖBERMANN, Universität Rostock

SARHAN, Mohamed Sabry, 2020: Increasing culturability of plant microbiome towards core microbiome manipulation and engineering

Prof. Dr. Ralf UPTMOOR, Universität Rostock

MEISE, Philipp, 2020: Analysis of genotypic differences in biochemical and physiological adjustments to N-deficiency and drought stress in potatoes (*Solanum tuberosum* L.) with consideration of yield components

Prof. Dr. Nicole WRAGE-MÖNNIG, Universität Rostock

ZHUMANOVA, Munavar, 2019: The ecology and management of pastures in Western Tien-Shan, Kyrgyzstan: strengths, weaknesses, opportunities and threats

ZIELKE, Luisa, 2019: Using large herbivores for the maintenance of an EU fauna-flora-habitat area on a former military training site

SWEERS, Weert, 2019: Options of beef production on restored wetlands

Prof. Dr. Niels ANTEN, Universität Wageningen

ZHANG, Ningyi, 2019: From leaf to crop: quantifying photosynthesis responses of two flower crops

SIKMA, Martin, 2019: Quantifying feedbacks in the plant-atmosphere-cloud continuum

TIPPE, Dennis Erro, 2019: Developing parasitic weed control strategies for rainfed rice production environments

KIWUKA, Catherine, 2020: Genetic diversity and phenotypic variation of wild, feral and cultivated *Coffea canephora* in relation to drought stress

VAN TONGERLO, Evelien, 2020: From diel photosynthesis to crop growth in the Crassulacean Acid Metabolism (CAM) orchid *Phalaenopsis*

Prof. Dr. Bernd LEINAUER, Universität Wageningen

HAHN, Daniel, 2021: Towards strategies to manage weeds in turf without herbicides

Prof. Dr. Paul STRUIK, Universität Wageningen

NYATHI, Melvin, 2019: Assessment of nutritional water productivity and improvement strategies for traditional vegetables in South Africa

MINDA, Thomas, 2019: Weather and crop dynamics in a complex terrain, the Gamo Highlands – Ethiopia: Towards a high-resolution and model-observation based approach

PRIEGNITZ, Uta, 2019: Understanding seed potato selection practices in Uganda

LABRA FERNÁNDEZ, Marcelo, 2020: Phenotypic plasticity in oil-seed rape in response to resource availability

GOBENA, Shiferaw Tafesse, 2020: Understanding and managing bacterial wilt and late blight of potato in Ethiopia: combining an innovation systems approach and a collective action perspective

DAMTEW ASSEFA, Elias, 2020: Social-institutional problem dimensions of late blight and bacterial wilt of potato in Ethiopia: The contribution of social learning and communicative interventions to collective action

NAHAR, Naznin, 2020: Co-designing Integrated Pest and Disease Management strategies in eggplant production in Bangladesh

VJAYARAGHAVAREDDY, Preethi Nandi, 2021: Improving rice productivity under water deficit through a comprehensive assessment of adaptive physiological traits

OUYANG, Wenjing, 2021: Anatomical, morphological and physiological differences between different types of rice and wheat under water deficit conditions

URFELS, Anton, 2021: Managing water and time: a systems analysis of crop planting and irrigation in South Asia

NAVARRETE, Israel, 2021: Seed degeneration of potato in the tropical highlands of Ecuador

Prof. Dr. Wopke VAN DER WERF, Universität Wageningen

ELHAKEEM, Ali, 2021: On productivity, resource capture, and yield stability of cover crop species mixtures

BAKKER, Lieneke, 2021: Insects and insecticides in agricultural landscapes; socio-ecological challenges and patterns

Univ.Prof. Dr. Martin GIERUS, Universität für Bodenkultur Wien

MEINTS, Julienne, 2021: Simulated future climate scenarios and the nutritive value of orchard grass (*Dactylis glomerata* L.) in permanent grassland

Univ.Prof. Dr. Hans-Peter KAUL, Universität für Bodenkultur Wien

EBRAHIMI, Meysam, 2021: The role of seeds in phosphorus-acquisition of soybean (*Glycine max*)

Assoc.Prof. Dr. Ahmad M. MANSCHADI, Universität für Bodenkultur Wien

FUCHS, Wolfgang, 2021: Parameterisation and evaluation of the crop growth model SSM-iCrop for winter wheat grown in Eastern Austria