

Special Issue

Increasing Temporal Diversity: Potential of Grassland Leys in Crop Rotations for Sustainable Agriculture

Message from the Guest Editors

We invite you to submit papers on (but not limited to) the following topics: (1) Nitrogen transfers from grassland leys containing legumes to a follow on crop, (2) effect of grassland termination (timing of ploughing, conservation tillage vs ploughing etc) on the conservation of soil carbon and nitrogen stocks, (3) plant–soil interactions in grassland leys (e.g., improved rooting depths from macropores of grassland ley, change in microbial communities, etc.) and their impact on the agronomic potential of follow-on crops and the soil organic carbon stocks, (4) benefits from improved biodiversity, both intrinsic (e.g., higher micro-/macrofauna diversity due to habitat diversity/quality), and agronomic/environmental (e.g., weed suppression and weed seed predation, pollination services, pest control), and (5) modelling of diversity effects, whole-system analyses of crop rotations in mixed farming system approaches compared to monocropping and/or permanent grasslands and decision-supporting tools.

Guest Editors

Prof. Dr. Friedhelm Taube

Institute of Crop Science and Plant Breeding, Grass and Forage Science/Organic Agriculture, Christian-Albrechts-University Kiel, D-24118 Kiel, Germany

Dr. Carsten Malisch

Institute of Crop Science and Plant Breeding, Grass and Forage Science/Organic Agriculture, Christian-Albrechts-University Kiel, D-24118 Kiel, Germany

Deadline for manuscript submissions

closed (31 December 2021)



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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