

Schleusner Y, Müller J, Goßmann M, Flath K, Rodemann B, Pietsch M, Heiermann M, Plöchl M, Bandte M, Büttner C, 2011:

Investigation on phytopathogenic risk by anaerobic fermentation of plant biomass in biogas plants

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Abstract:

In this project the risk of spreading plant pathogens and weed seeds through the increased used of energy crops in biogas plants is to be estimated. For this purpose carried out experiments in laboratory fermenters and biogas plants. The focus is on the ensuring the phytosanitary safety of the digestate. The experiments in the laboratory fermenters and thereby generated outputs to 11 host-pathogen systems are presented (**millet** (fresh and silage) - *Fusarium proliferatum* and *Fusarium verticillioides*, **rye** (fresh and silage) - *Alternaria alternata*, **wheat** (grain) – *Alternaria alternata*, **sugar beat** – *Sclerotinia sclerotiorum*, **potato** – *Rhizoctonia solani*, PVY, *Synchytrium endobioticum*).