

~ BBC-IAR-GTR Special Seminar ~

Understanding biosynthesis and secretion of sorgoleone, an inhibitor of nitrification secreted from sorghum root



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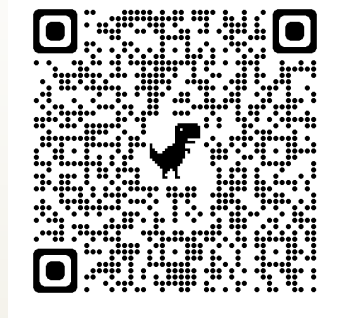
11.29 Wed

16:30-18:00

BioSci. Biotech. Center #510

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Abstract

The loss of nitrogen fertilizer from agricultural fields in the forms of nitrate (NO_3^-) and nitrous oxide (N_2O) are serious environmental concerns. Our goal is to prevent the loss of nitrogen using specialized chemicals (Biological Nitrification Inhibitors; BNI) secreted from plant roots. Focusing on one such chemical, sorgoleone from sorghum, we have elucidated some aspects of biosynthesis and secretion. Future paths for introducing BNI compounds in elite crops will be discussed.

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