

Title (en)

CONSORTIA OF MICROORGANISMS FOR SPATIAL AND TEMPORAL DELIVERY OF NITROGEN

Title (de)

KONSORTIEN VON MIKROORGANISMEN ZUR RÄUMLICHEN UND ZEITLICHEN ZUFÜHRUNG VON STICKSTOFF

Title (fr)

CONSORTIUMS DE MICRO-ORGANISMES POUR UNE ADMINISTRATION SPATIALE ET TEMPORELLE D'AZOTE

Publication

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Application

EP 21740778 A 20210112

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Abstract (en)

[origin: WO2021146209A1] The present disclosure provides consortia of microbes that are functionally optimized for nitrogen fixation and deliver such to plants in a targeted, efficient, and environmentally sustainable manner. The microbes within the consortium differ in nutrient utilization, temporal occupation, oxygen adaptability, and/or spatial occupation, which enables the microbes to deliver nitrogen to a cereal plant in a spatially targeted (e.g. rhizospheric) and temporally targeted (e.g. during advantageous stages of plant's life cycle) manner. The present disclosure also provides methods of creating a synthetic composition of microbes and methods of using compositions of microbes to fix atmospheric nitrogen and deliver such to a crop.

IPC 8 full level

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