The Bacteria of Nebraska Soil: With Special Reference to the Fixation of Nitrogen, Ammonification, Denitrification in Non-Protein Media; Including Observations on the Reduction of Nitrates by Soil Bacteria in General; February 20, 1913

By John J Putnam

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from The Bacteria of Nebraska Soil: With Special Reference to the Fixation of Nitrogen, Ammonification, Denitrification in Non-Protein Media; Including Observations on the Reduction of Nitrates by Soil Bacteria in General; February 20, 1913 Of great importance is the fact determined by Winogradsky that the numerous species of the group of nitrifying bacteria may be classified into two sharply divided sub-groups: Nitroso-bacteria and Nitro-bacteria. The nitroso-bacteria oxidize ammonia to nitrous acid, while the nitro-bacteria lack the faculty of attacking ammonia, but perform the important task of converting nitrous acid into nitric acid. We are indebted to E. Marchel for proving that the faculty of eliminating ammonia from albuminoids is common to many fungi. The potency of the different species was found by him to vary, the largest quantity being produced by Bacillus mycoides. The first researches along the line of denitrification were undertaken by Jules Reiset in 1854 and 1855. He asserted that free nitrogen was always evolved during the decomposition of manure. Denitrification in arable soil was first noticed by Gappelsroder in 1862, and was...

Reviews

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