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Genetics and Regulation of Nitrogen Fixation in Free-Living Bacteria Edited by Werner Klipp Lehrstuhl für Biologie der Mikroorganismen, Fakultät für Biologie, Ruhr-Universität

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Nitrogen fixation also refers to other biological conversions of nitrogen, such as its conversion to nitrogen dioxide. Nitrogen fixation is a process by which nitrogen (N_2) in the atmosphere is converted into ammonia (NH_3). Atmospheric nitrogen or elemental nitrogen (N_2) is relatively inert: it does not easily react with other chemicals to form new compounds.

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Nitrogen (N_2) fixation by heterotrophic bacteria associated with sinking particles contributes to marine N cycling, but a mechanistic understanding of its regulation and significance are not ...

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free-living nitrogen-fixing microorganisms (diazotrophs ...

In nitrogen starvation conditions, GlnD covalently modifies PII proteins, which leads to the up-regulation of nitrogen fixation and assimilation pathways. In the presence of exogenous nitrogen, GlnD removes the covalent modification from the PII proteins, leading to the repression of nitrogen fixation and assimilation genes (Batista and Dixon, 2019).

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Kennedy C, Bishop P. Genetics and regulation of nitrogen fixation in free-living bacteria nitrogen fixation: origins, applications, and research progress. Volume. 2004; 2:27–52. Kim YI, Burton RE, Burton BM, Sauer RT, Baker TA. Dynamics of substrate denaturation and translocation by the ClpXP degradation machine. Mol Cell. 2000; 5:639–648.

Biological nitrogen fixation (BNF) is the process whereby atmospheric nitrogen is reduced to ammonia in the presence of

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nitrogenase. Nitrogenase is a biological catalyst found naturally only in certain microorganisms such as the symbiotic *Rhizobium* and *Frankia*, or the free-living *Azospirillum* and *Azotobacter* and BGA.

3. Non-Symbiotic Nitrogen (N_2)-Fixation: In 1960, J. E. Carnahan and his associates first reported the reduction of gaseous nitrogen to ammonia by the cell-free preparations from the bacterium, *Clostridium pasteurianum* (Fig. 10.6). They observed that a large amount of pyruvic acid was required by the extract for the fixation.

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