

Ammonium resistant microorganisms for efficient and sustainable bio-fertilizer production

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Laboratorio de MICRObiología y BIOTecnología Ambiental



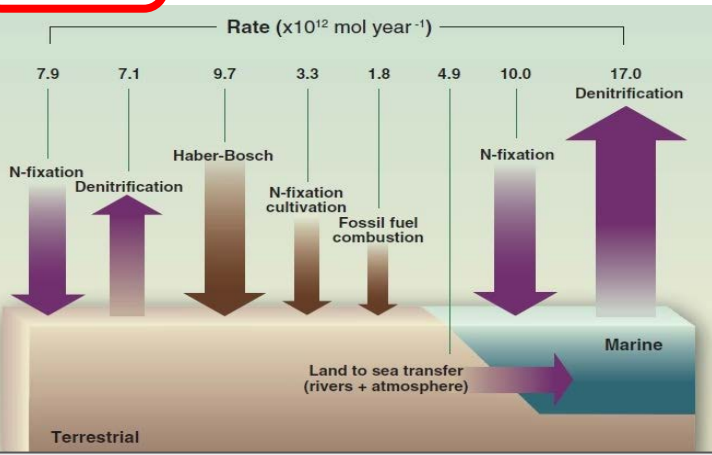
Conocimiento que transforma vidas

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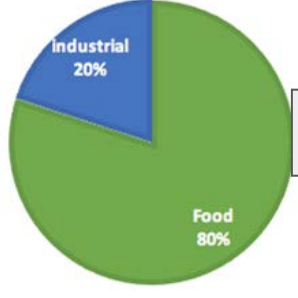
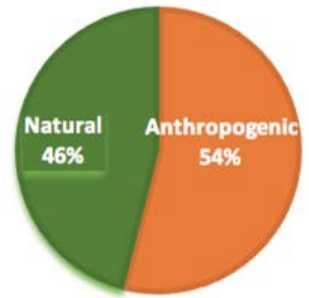
Unreactive di-Nitrogen in air (N₂)

The Nitrogen Transformations

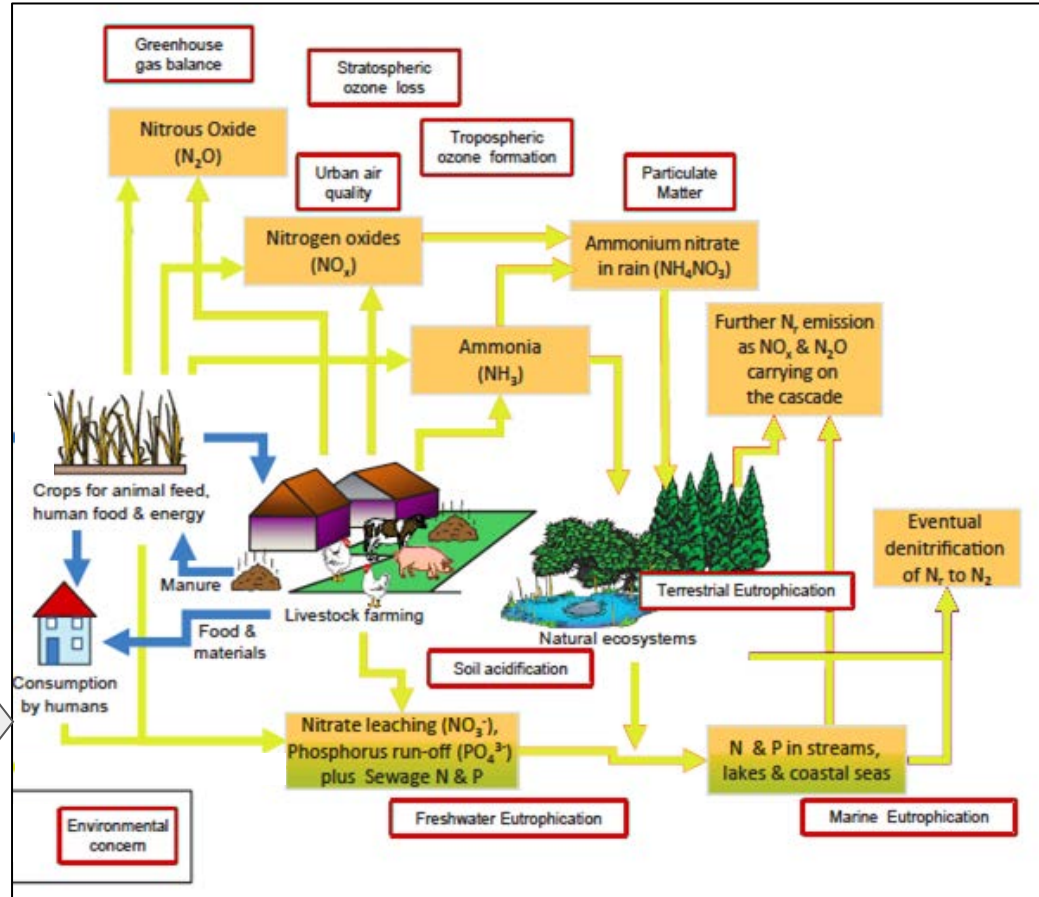


Production

Uses



300 million Ton CO₂



Nourish Scotland campaigning -Scotland. <http://www.nourishscotland.org/about/vision-and-aims/>

Challenges

Improve the uptake of fertilizers in soil

Decrease de use of chemical fertilizer

Increase the Biological production



Carolina Ospina and Claudia Rodriguez

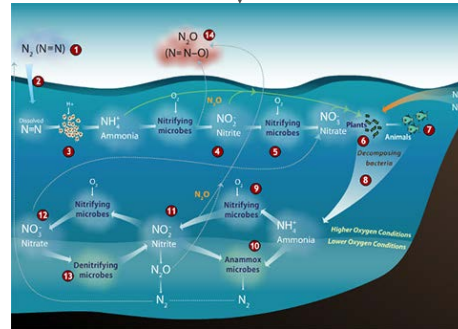
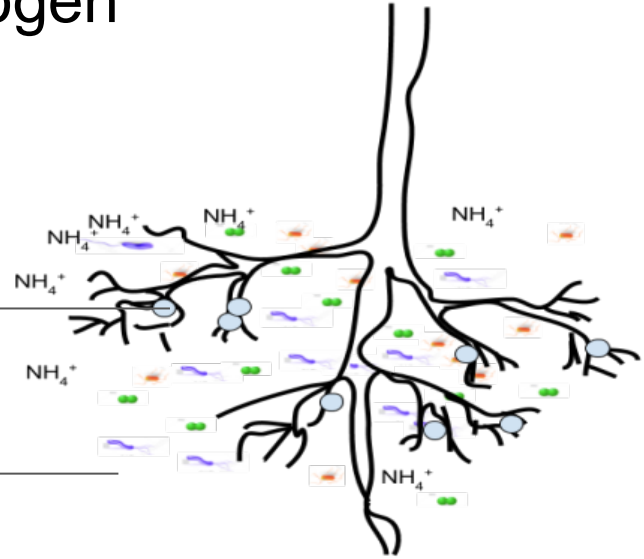


Biological Uptake of Nitrogen

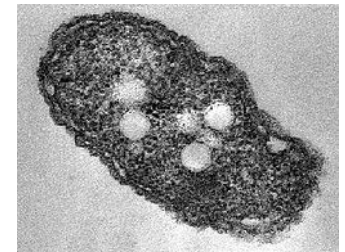


Symbiotic

Asimbiotic

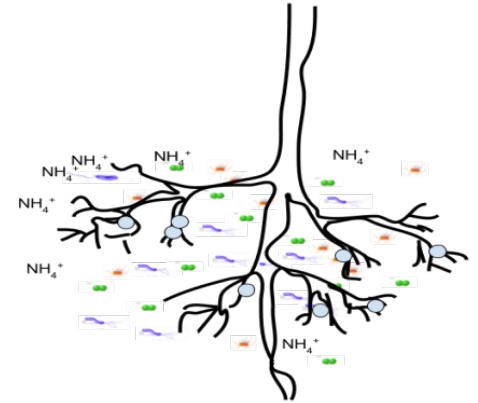
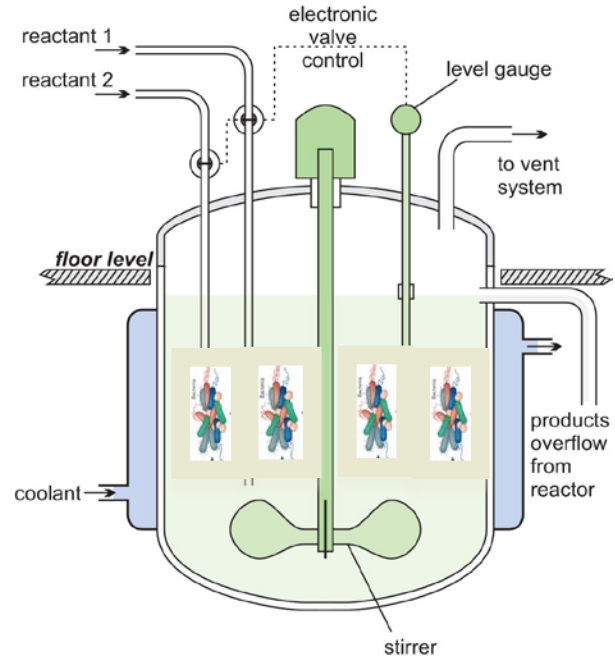


http://www.whoi.edu/cms/images/oceanus/callout-nitrogen-cycle_292436.jpg



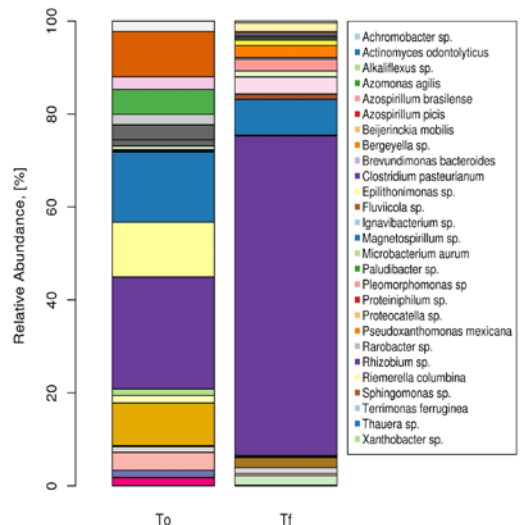
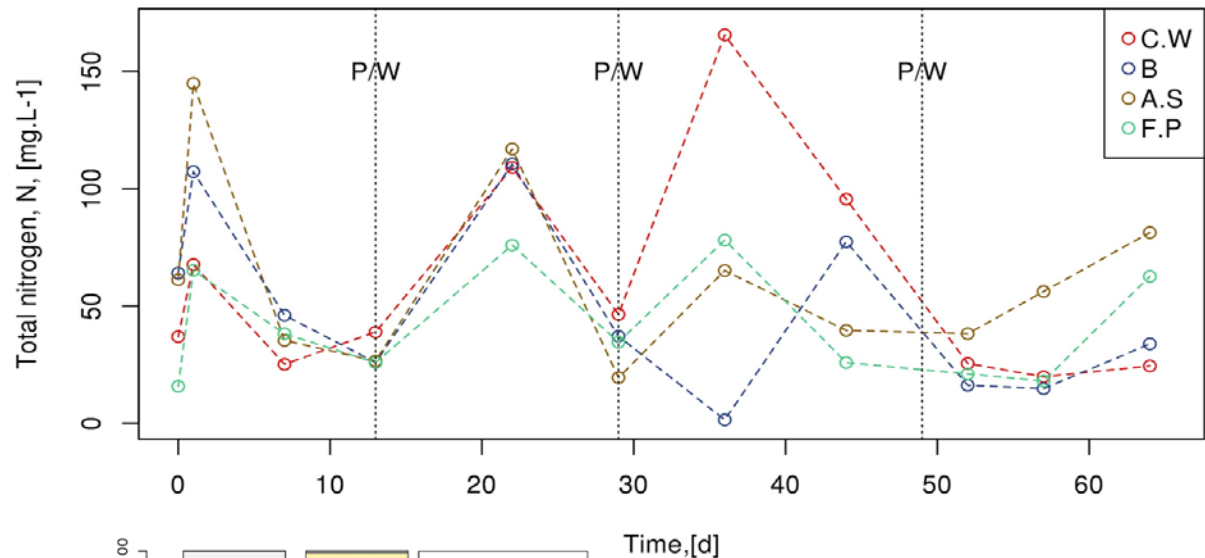
Azotobacter

Methodology



Ammonia Resistant Microorganism

Results



Time [d]



The Next

