

Chemical Communication At The Microbial Level

Sheldon Aaronson

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Microbial intelligence (popularly known as bacterial intelligence) is the intelligence shown by microorganisms. The bacteria can take inputs in form of chemical signals, process them and then produce output chemicals to signal other bacteria in the colony. Bacteria communication and self-organization in the context of network theory has been investigated by Eshel Ben-Jacob research group at Tel Aviv University which developed a fractal model of bacterial colony and identified linguistic and social patterns in colony lifecycle.[4].

Contents. 1 Examples of microbial intelligence. 1.1 Bacterial. 1.2 Protists. However, Cd-contamination has the potential to reduce the microbial diversity and further alter the community structure in the soil. Notably, function analysis of the crucial microorganisms (e. g. Proteobacteria, Sulfuricella and Thiobacillus) indicated that these bacteria and their corresponding physiological functions were important for the community to cope with Cd pollution. The sample plot was near phosphate rock chemical plants in Shuangsheng town, Shifang County, Sichuan province, China. Two sites, designated site 1 (S1) and site 2 (S2), were sampled in triplicate from idle soils and without plants, on 7th May, 2015. At the genus level, we obtained a total of 1736 genera (apart from the norank) from the two samples.

Microbial Contaminant. EUROPEAN COMMISSION HEALTH & CONSUMER PROTECTION DIRECTORATE-GENERAL Directorate E " Safety of the food chain Unit E.3 - Chemicals, contaminants, pesticides. SANCO/12116/2012 "rev. 0 September 2012. The purpose of this document is to highlight current international microbial contaminant criteria on food and drinking water and to promote a dialogue among EU Member States on the acceptable levels of microbial contamination in microbial plant protection products. This document is intended to be used as guidance in the safety assessment of micro-organisms and microbial plant protection products; it is not a requirement which has to be followed nor does it provide mandatory guidance.