## Identification of proteins found in the process of slow dehydration in a terrestrial cyanobacterium, *Nostoc* sp. HK-01

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*Nosto*c sp. HK-01 could be used for bio-chemical circulation in a closed ecosystem, including space. Because, it is one of terrestrial cyanobacterium having a tolerance to desiccation stress and it has ability of usefulness as a food. We have been exploring macromolecular substances that would be involved in a mechanism for desiccation tolerance in *Nosto*c sp. HK-01.

In this study, to detect cellular proteins of *Nostoc* sp. HK-01 during slow dehydration, proteins extracted from the cells in the course of the dehydration were applied to SDS-polyacrylamide gel electrophoresis. In comparison with the wet cells, the abundance of some proteins changed after dehydration. Genes of some of them were identified and functional analyses of them are in progress.

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