

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



HCG035-03

Room:104

Time:May 22 11:15-11:35

Use of cyanobacteria in terraforming of Mars

Masayuki Ohmori^{1*}

¹Dept. Biol. Sci., Chuo Univ.

Cyanobacteria, the photosynthetic, oxygen-evolving proarchconservate, grow in diverse habitats ranging from tropical to polar regions and from sea to desert. They are considered to be useful in terraforming of Mars, keeping clean atmosphere in a space station, and serving as a food for astronauts. Since cyanobacteria are desiccation tolerant, they are easily transported under severe flight conditions. They can revive soon after rewetting. Molecular bases of these properties will be discussed.

Keywords: cyanobacteria, Mars, terraforming