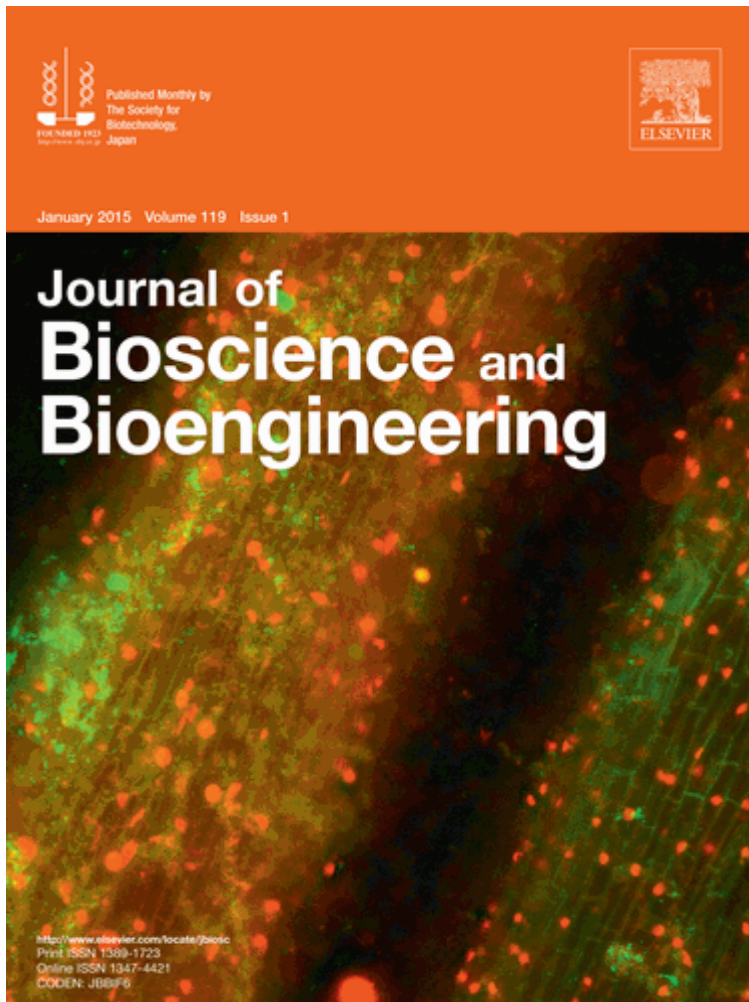


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*Acinetobacter calcoaceticus* P23 is a plant growth-promoting bacterium that was isolated from the surface of duckweed (*Lemna aoukikusa*) in the Hokkaido University Botanical Garden. The bacterium was observed to colonize on the plant surfaces and increase the chlorophyll content of not only the monocotyledon *Lemna minor* but also the dicotyledon *Lactuca sativa* in a hydroponic culture. The picture shows a fluorescent microscopic observation of the roots of *L. sativa* inoculated with strain P23. The green clusters on the root surfaces show the colonies of the bacterium. The red spots are chloroplasts showing the auto fluorescence of chlorophylls. The amount of chloroplasts in the root cells of *L. sativa* increased after colonization by strain P23. Strain P23 has the potential to play a part in the future development of fertilizers- and energy-saving hydroponic agricultural technologies.

For more information regarding this work, read the article: **Suzuki, W. et al.**, "Plant growth-promoting bacterium *Acinetobacter calcoaceticus* P23 increases the chlorophyll content of the monocot *Lemna minor* (duckweed) and the dicot *Lactuca sativa* (lettuce)", **J. Biosci. Bioeng.**, volume 118, issue 1, pages 41–44 (2014).

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