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JBB is published monthly (2 vols. in 12 issues) by the Society for Biotechnology, Japan and distributed outside Japan by Elsevier. Online version is available in ScienceDirect. The journal was first published in 1923, originally being named Jyozogaku Zasshi (in Japanese) and then renamed Hakkokogaku Zasshi (in Japanese) (1944), Journal of Fermentation Technology (1973), and Journal of Fermentation and Bioengineering (1989). It was given the current name in 1999. JBB has established itself as one of the most influential biotechnology journals and is now highly appreciated by scientists throughout the world.

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Print ISSN 1389-1723 **Online ISSN** 1347-4421

CODEN: JBBIF6

Impact Factor: 2.3 (2023)

Vol. 139 Cover Illustration

Saccharomyces cerevisiae cell morphology exhibits distinct phenotypes under various culture conditions, allowing for the acquisition of valuable information through its observation. Itto-Nakama et al. established an Al model to predict ethanol production, the primary fermentation product, by monitoring yeast cell morphology under high-glucose stress conditions during fermentation. This method is expected to contribute to enhancing the efficiency of production management and monitoring of desired biocommodities. The image shows a three-colored yeast strain with the nucleus stained with mRuby (pKN4-HTA2 3 x mRuby), actin stained with mNeonGreen (pKN23-Lifeact mNG), and the cell wall stained with concanavalin A CF350.

This image was taken by Chenwei Wang in Ohya Laboratory at the University of Tokyo. The corresponding study has been selected as one of the winners of the Excellent Paper Award 2024 by the Society for Biotechnology, Japan: Kaori Itto-Nakama, Shun Watanabe, Shinsuke Ohnuki, Naoko Kondo, Ryota Kikuchi, Toru Nakamura, Wataru Ogasawara, Ken Kasahara, Yoshikazu Ohya, "Prediction of ethanol fermentation under stressed conditions using yeast morphological data", J. Biosci. Bioeng., volume 135, issue 3, pages 210–216 (2023) (Copyright@2025 The Society for Biotechnology, Japan).