- **High throughput optimization of medium composition for *Escherichia coli* protein expression using deep learning and Bayesian optimization**
  JBB Volume 135, Issue 2, February 2023, Pages 127-133
  Kanako Yoshida, Kazuki Watanabe, Tai-Ying Chiou, Masaaki Konishi (Kitami Institute of Technology)

- **Enhancement and maintenance of hepatic metabolic functions by controlling 3D aggregation of cryopreserved human iPS cell-derived hepatocyte-like cells**
  JBB Volume 135, Issue 2, February 2023, Pages 134-142
  Fumiya Tao[1], Sanshiro Hanada[1], Kazuya Matsushima[1], Hiroshi Arakawa[2], Naoki Ishida[2], Yukio Kato[2], Saya Okimura[3], Tomohisa Watanabe[4], Nobuhiko Kojima[1] ([1]Yokohama City University , [2] Kanazawa University , [3]REPROCELL Inc.)

- **Prediction of ethanol fermentation under stressed conditions using yeast morphological data**
  Volume 135, Issue 3, March 2023, Pages 210-216
  Kaori Itto-Nakama[1‡], Shun Watanabe[2‡], Shinsuke Ohnuki[1‡], Naoko Kondo[1‡], Ryota Kikuchi[2,3], Toru Nakamura[2], Wataru Ogasawara[4], Ken Kasahara[2], Yoshikazu Ohya[1] ([1]The University of Tokyo, [2]Chitose Laboratory Corp., [3]Kyoto University, [4]Nagaoka University of Technology)

- **Functional evaluation of non-oxidative glycolysis in *Escherichia coli* in the stationary phase under microaerobic conditions**
  Volume 135, Issue 4, April 2023, Pages 291-297
  Kenta Miyoshi, Ryutaro Kawai, Teppei Niide, Yoshihiro Toya, Hiroshi Shimizu (Osaka University)

- **Enhancing acetone production from H_2 and CO_2 using supplemental electron acceptors in an engineered *Moorella thermoacetica***
  Volume 136, Issue 1, July 2023, Pages 13-19
  Kaisei Takemura[1‡], Junya Kato[1‡], Setsu Kato[1], Tatsuya Fujii[2], Keisuke Wada[3], Yuki Iwasaki[2], Yoshiteru Aoi[1], Akinori Matsushika[1,2], Tomotake Morita[3], Katsuji Murakami[2], Yutaka Nakashimada[1] ([1]Hiroshima University, [2]National Institute of Advanced Industrial Science and Technology (AIST), Hiroshima, [3]National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba)

- **Selective formate production from H_2 and CO_2 using encapsulated whole-cells under mild reaction conditions**
  Volume 136, Issue 3, September 2023, Pages 182-189
  Hung Khac Nguyen[1‡], Takuo Minato[1,,3‡], Mohammad Moniruzzaman[4], Yu Kiyasu[1], Seiji Ogo[1,2,5], Ki-Seok Yoon[1,2,4] (Kyushu University, [2]International Institute for Carbon-Neutral Energy Research (WPI-I[2]CNER), Kyushu University, [3]Hiroshima University, [4]Mitsui Chemicals, Inc., [5]Center for Small Molecule Energy, Kyushu University)

- **Expansion of human mesenchymal stem cells on poly (vinyl alcohol) microcarriers**
  Volume 136, Issue 5, November 2023, Pages 407-414
  Masahiro Kaneko[1‡], Airi Sato[2‡], Satoru Ayano[3], Akio Fujita[3], Goro Kobayashi[3], Akira Ito[1] ([1]Nagoya University, [2]

Chubu University, [3] Kuraray Co., Ltd.)

⇒**Excellent Paper Award – Past Recipients**

►**Back to "Awards" Top**