

Press Release

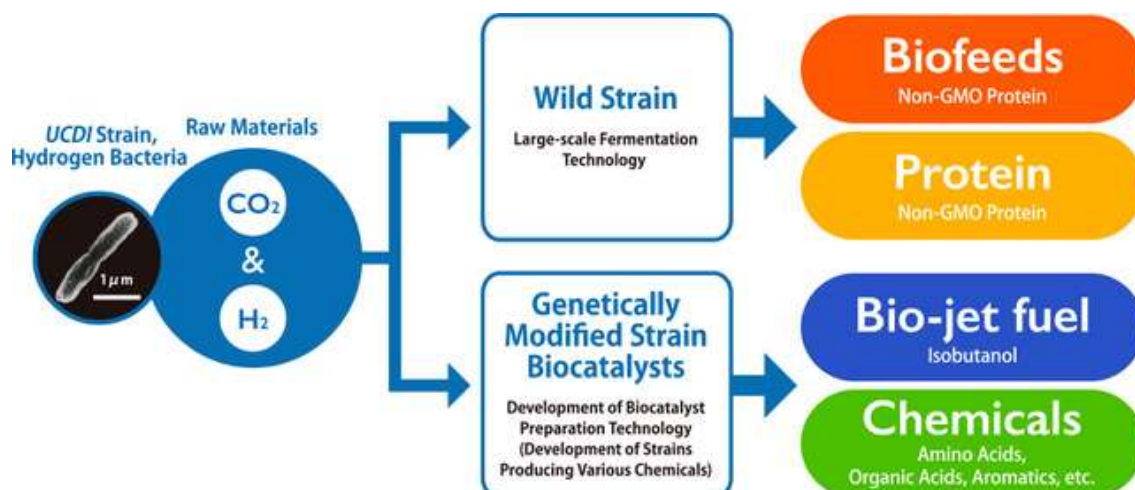
UCDI Obtains Patent on World's First Method of Producing Bio-Jet Fuel from CO₂ Using Hydrogen Bacteria (UCDI strain)

Tokyo, Japan, February 27, 2019—The Utilization of Carbon Dioxide Institute Co., Ltd. (UCDI; Head Office: Minato, Tokyo / CEO: Dr. Hideaki Yukawa), a venture of The University of Tokyo, today announced that it obtained a patent on December 21, 2018 for its invention of the world's first method of producing isobutanol, which is approved as a raw material for bio-jet fuel, using its proprietary UCDI strain of hydrogen bacteria (Patent No. 6450912).

With this patent in hand, UCDI will press forward with technological development to further accelerate the realization of industrial applications.

Patent Number	JP,6450912,B
Title of Invention	Hydrogenophilus bacterium transformant
Application Number	JP2018-541440
Application Date	June 25, 2018
Registration Date	December 21, 2018

UCDI pursues R&D and industrialization efforts that sophisticatedly leverage innovative biotechnologies centered on the high-protein UCDI strain of bacteria, which can multiply from one bacterium to 16 million in 24 hours with CO₂ as a raw material. These efforts are aimed at helping to solve global food security challenges and bring about a low-carbon world, through four areas of technology: 1) biofeeds (protein material for feed in aquaculture and livestock), 2) high-performance proteins, 3) bio-jet fuel, and 4) chemicals (e.g., bio-degradable plastics).



Corporate Data

Corporate Name: Utilization of Carbon Dioxide Institute Co., Ltd.
Established: August 12, 2015
Paid-in Capital/
Capital Reserve: ¥162.9 million
URL: <http://www.co2.co.jp>
Head Office: 5-13-15 Shiba, Minato-ku, Tokyo 108-0014, Japan
TEL +81-3-6435-1150 Fax +81-3-6435-1188
Hongo Research Center: Faculty of Engineering Bldg. 12, The University of Tokyo
2-11-16 Yayoi, Bunkyo-ku, Tokyo 113-0032, Japan
Management Team: Representative Chief Executive Officer Dr. Hideaki Yukawa
Director Tomoko Yukawa
Executive Officers Hiroshi Maeda
Setsuko Beppu
Science Advisors: Superior Advisor
Dr. Toru Kodama, Professor emeritus at The University of Tokyo
Special Advisors
Dr. Kazuo Nagai, Professor emeritus at Tokyo Institute of Technology
Dr. Mitsunori Takase, former Managing Director at Morinaga Milk Industry Co., Ltd.
Masaaki Haga, former Managing Director at Japan Airlines Co., Ltd.
Scientific Advisor F. Blaine Metting, Jr., Ph.D., Consultant in Microbial Biotechnology & Carbon
Sequestration
Business Strategy Advisor Dr. Alain Vertis, Managing Director at NxR Biotechnologies

Major Cooperating Companies / Collaborating Organizations

Obayashi Corporation
CREEK & RIVER Co., Ltd.
TAIYO NIPPON SANZO CORPORATION
Panasonic Corporation
Morinaga Milk Industry Co., Ltd.

Oshima Station, Aquaculture Research Institute, Kindai University
Applied Microbiology, Department of Biotechnology,
Graduate School of Agricultural and Life Sciences, The University of Tokyo

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For further information, please contact:

Utilization of Carbon Dioxide Institute Co., Ltd.: info@co2.co.jp