



International CeBiTec Research Conference Bielefeld on  
Advances in Industrial Biotechnology

## Prospects and challenges for the development of algal biotechnology

Center for Cognitive Interaction Technology (CITEC), Bielefeld University  
September 16 – 18, 2024



Industrial Biotechnology is a central pillar of the knowledge-based bioeconomy with applications e.g. in the food & feed, biofuel, cosmetics and medical industries. To further strengthen this sector of industry, advances in biological research and molecular technologies are combined with novel synthetic biology and industrial production strategies to improve the quality of existing product, increase the sustainability and commercial viability of product generation and to generate novel product lines.

Complementing the heterotrophic bacteria- and yeast-based systems, photosynthetic hosts offer great additional potential, since these hosts can use sunlight energy as the sole energy source for biological product generation.

Algae are ideal photosynthetic hosts in many respects. Algal growth is not restricted to arable land, can reach high biomass production rates and the cultivation conditions can be strictly controlled. Furthermore, and genetic tools and techniques for metabolic engineering are well established.

The conference program will include highly relevant topics from fundamental algal biology research to applied aspects of algal biotechnology, with a special focus on molecular biology.

Distinguished invited speakers from academia and industry will present current prospects and furthermore, short talks selected from the submitted abstracts will complete the oral presentation section of the conference.

The Center for Biotechnology (CeBiTec) of Bielefeld University cordially invites you to attend the 13th International CeBiTec Research Conference. **Confirmed participants include:**

**Ilka Maria Axmann**, Inst. Synth. Microbiol., HHU Düsseldorf, DE  
**Adrien Burlacot**, Carnegie Inst. for Science, Stanford, US  
**Sarah d'Adamo**, Wageningen University & Research, NL  
**Angela Falciatore**, Institut de Biologie Physico-Chimique, Paris, FR  
**EonSeon Jin**, Dept. of Life Science, Hanyang University, KR  
**Olaf Kruse**, CeBiTec, Bielefeld University, DE  
**Kyle Lauersen**, Biol. & Environ. Sci. & Engineer. Div., KAUST, SA  
**Yonghua Li-Beisson**, Inst. Biosci. Biotech., CEA Cadarache, FR  
**John McGowen**, AzCATI, Arizona State University, Tempe, US  
**Saul Purton**, Structural and Molecular Biology, UCL, GB  
**Tsuyoshi Tanaka**, Tokyo University of Agriculture & Technol., JP  
**Vitor Verdelho**, EABA European Algae Biomass Association, PT

The conference aims to give a broad overview of the challenges facing the exploitation of microalgae and cyanobacteria for industrial biotechnology, from biofuels to high value products and chemicals. Application form & program will be available at

<https://www.cebitec.uni-bielefeld.de/icrc-2024>

Conference venue: Bielefeld University, Center for Cognitive Interaction Technology (CITEC), Inspiration 1, 33619 Bielefeld, Germany.

**GFT**

Gesellschaft zur Förderung des Forschungs-  
und Technologietransfers in der Universität  
Bielefeld e.V.

Universität Bielefeld  
Centrum für Biotechnologie - CeBiTec  
Universitätsstraße 27  
D-33615 Bielefeld