

With the high interest in renewable resources, the field of algal biotechnology has undergone a huge leap in importance in recent years. The book *Microalgal Biotechnology – Potential and Production* treats the biological fundamentals of microalgal biotechnology in physiology and molecular biology and provides an overview of applications and products. It furthermore includes a survey of the state-of-the-art in process engineering of algae cultivation starting with mass production in open ponds and leading you to advanced technologies in closed photobioreactors. Thus crucial enabling technologies reaching from genetic manipulation to bioprocess engineering are reviewed. Contributions from academia and industrial case studies make this book a comprehensive survey of current progress in microalgae biotechnology. So this book will be of interest to active people in biology, biotechnology, and engineering in the area of sustainable production of high value products or mass production of food and fuel for the future.

- ▶ Entire value chain from screening and genetic engineering to cultivation and product processing
- ▶ Photobioreactor design from basic construction parameters, over light transfer to production performance
- ▶ Industrial case studies from companies active in the molecular and in the technical field
- ▶ Color layout, microscopic pictures, exclusive data plots, technical drawings

More about processes and applications you will find in the volume Posten/Walter (Eds.), *Microalgal Biotechnology: Integration and Economy*, ISBN 978-3-11-029827-7.



Prof. Dr.-Ing. Clemens Posten
Study biology and electrical eng., PhD 1987 TH Hannover. Postdoc at Tech. Univ. Hamburg. Work at the GBF, since 1995 chair at the Karlsruhe Institute of Technology (KIT).



Dr.-Ing. Christian Walter
Study Energy and Process Engineering, PhD 1999, Postdoc/ TU Berlin. 2002-2008 Assistant professor, lecturer FAU Erlangen-Nürnberg. Since 2008 at Wacker Chemie AG, Burghausen.



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