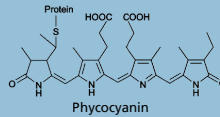
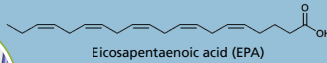


Competence Center Algal Biotechnology
Applied Algae Research from Cell to Product

The Competence Center Algal Biotechnology sees itself as a partner to industry. Together with companies, we develop marketable products and processes.

Food Products

Omega-3 Fatty Acids,
Vitamin B12,
Phycocyanin & Proteins

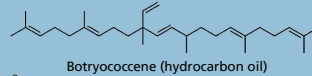
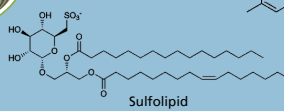


Environment & Material Cycles

Carbon Dioxide Fixation, Wastewater Treatment, Algae-Biogas Coupling

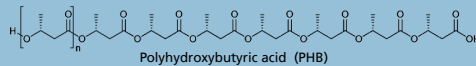
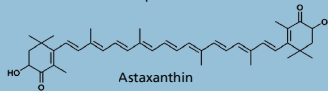
Pharmaceuticals, Cosmetics & Agriculture

Lectins,
Sulfolipids,
Carotenoids,
Phytostimulants



Chemicals

Hydrocarbon Oils,
Bioplastics,
Silica



Bioanalytics

Qualitative and quantitative analysis of algae constituents

Strain Development and Cultivation

Isolation, cultivation, characterization and species identification of microalgae

Process Development, Scaling, Upstream and Downstream Processing

- Development and optimization of processes for intra- and extracellular multiproduct recovery
- Milking of petroleum-like hydrocarbon oils (petroleum station)

Active Ingredient Development

Isolation and characterization of new active compounds for the treatment of bacterial, viral, inflammatory, and neurodegenerative diseases

Product Development

- Algae-based vegetarian food products
- Algae-based drugs for applications in pharmaceuticals, cosmetics and agriculture
- Fine and platform chemicals
- Environmentally friendly and resource-efficient material cycles



The Competence Center Algal Biotechnology at Anhalt University of Applied Sciences in Koethen has been one of the leading research locations for microalgae in germany for over 25 years.

- Algae strain collection (KASC, > 300 strains, including 180 self-isolates)
- Center for Algal Based Therapeutics (in collaboration with Fraunhofer IZI-MWT)
- Bioanalytics division, Algae pilot scale

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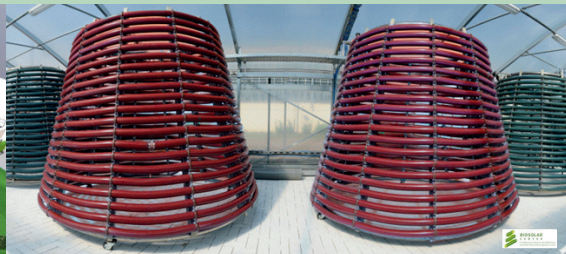
Many remarkable properties and application potentials of algae have already been identified. The next step is to translate these research results into marketable products and accelerate their transfer into practical use.

Our vision is to establish microalgae as renewable raw materials on a large scale – for example in the production of healthy food and feed, pharmaceutical compounds, phytostimulants, bio-based plastics, lubricants, and petroleum substitutes.

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Prof. Dr. Carola Griehl



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Competence Center Algal Biotechnology**

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