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The Culture Collection of Algae and Protozoa (CCAP) is a Biological Resource Centre for living strains of microalgae, macroalgae, cyanobacteria, protozoa and algal pathogens. CCAP maintains nearly 3,000 strains available for research, education, and commercial purposes. In addition, CCAP provides a variety of services ranging from patent deposition, cryopreservation, taxonomy, molecular and metabolomic analysis, training and other consultative services.



Biotechnology projects

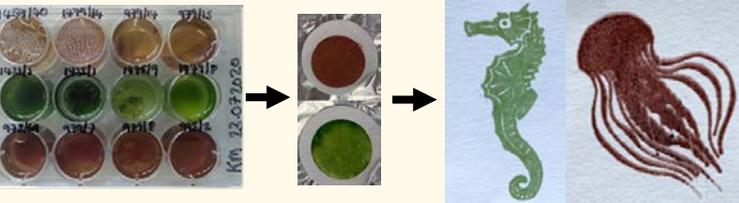
Carotenoids and terpenoids for high-value markets:



- ✘ Biochemical screening: protein, lipid, carbohydrate, antioxidant activity
- ✘ Analysis of growth and biomass yield



Sustainable algae technologies replacing petroleum-derived products for production of Ink



Genome projects



Sequence genomes of all 70,000 eukaryotes resident in Britain and Ireland

- ✘ Understand key ecosystem players and their role in helping develop sustainable and healthy economies
- ✘ CCAP part of the Protist group:
 - ✘ 522 CCAP strains to be sequenced
 - ✘ 57 strains (30 families) harvested
 - ✘ PacBio analysis close to completion for 14 strains



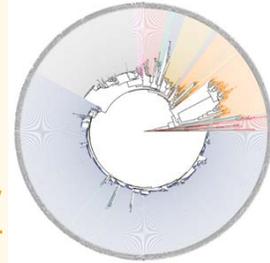
Sequencing green algae and protists

- ✘ Addressing fundamental questions in evolution and comparative genomics
- ✘ CCAP contribution:
 - ✘ 28 strains
 - ✘ 10 genomes completed

New developments

CCAP Bioinformatics gateway
Improving accessibility of CCAP genetic resources

www.ccap.ac.uk/ccaptools/



Algae Research, Innovation, and Environmental Science Centre: CCAP-ARIES

