

	<p>Protistology & Aquatic Ecology</p>
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Type bedrijf: ~~KMO / groot bedrijf / onderzoeksinstituut / universiteit / hogeschool / innovatieondersteunende organisatie~~

Wat zijn de kernactiviteiten van uw bedrijf in de algenwaardeketen (aankruisen welke gebieden van toepassing zijn):

Toelevering grondstoffen	Productie	Oogst	Downstream processing	Gebruik van algen(producten)

OTHER:

Fundamental research diverse topics

- Life cycle, population genetics, diversity and speciation, macro-evolution, genomics, Ecology
- Habitat sampling, isolation and cultivation of cultures

1. Bedrijfsprofiel

PAE coordinates or participates in multidisciplinary research in the framework of national and international research projects. For its research, PAE harbours an extensive research collection of living diatoms, which forms part of the Belgian Coordinated Culture collections of Microorganisms and is being used in collaborations with academic and industrial partners for respectively integrated biological and evolutionary studies and for aquaculture and biotechnological purposes.

2. Activiteiten rond algen

Relevant topics in the context of Aquaculture are toxic bloom dynamics (Pseudo-Nitzschia, Microcystis), productivity and stability of protist communities (e.g. productivity-diversity relationships), ecophysiology (e.g. mixotrophy, salinity tolerance,..), and the genetic regulation of cell and life cycle (in particular of diatoms).

3. Marktaanbod

As a research facility the PAE has no lucrative purposes, however the laboratory maintains an extensive diatom culture collection, which was initiated in 2000 and developed by Dr. V. Chepurnov (former PAE member). The collection currently consists of 175 strains belonging to 7 genera. The purpose of this collection is to make diatom strains available for both academic and industrial partners to conduct fundamental and applied research. As such, the strains/taxa are or have been intensively used in the PAE lab and elsewhere for diatom genomics research, cell-and life-cycle investigations, studies of ecological interactions and research on the population genetics, evolution and diversity of diatoms. All strains, together with relevant strain information, are available upon request.

4. Marktvraag

5. Contactgegevens

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