

Novel Food & Standardization workshops 2019



Why?

The European Algae Biomass Association (EABA) aims to promote a strong link between science, technology and business in the algae biomass sector. The approval of new Algae Biomass as Novel Foods is the main bottleneck that reduces the potential of Algae Biomass and slows down the growth of the sector. Food safety requirement in place in Europe, requires that a relevant body of knowledge and information is available before the approval for consumption as food in Europe. The Novel Food approval for algae biomass and algae biomass extracts requires complex and expensive Dossiers. The approval as food for humans includes most of the requirements for approval as feed. There are more than 20.000 known algae species and less than 10 are produced and used as food in Europe:

- (1) The value and growth of the algae biomass sector (macro- and microalgae) is dependent on the algae products available on the market (live biomass, dried or frozen biomass and algae extracts from macro- and microalgae, cultivated or harvested from the environment);
- (2) During the last 30 years more than 50 EU financed research projects (macro- and microalgae) with more than 200 m€ provided the achievement of a wide range of exploitable results but very few reached the market because of regulatory issues as novel food approval;
- (3) The competitiveness of the algae based products depends on efficiency and scale of production technologies. The main obvious and marketable applications are for food and feed, but others like fuels,

chemicals, bioplastics and industrial ink will benefit from the scale-up;

(4) The achievement of large-scale production starts with pilot and small scale projects and requires several years. This means that the scale-up process must start with added value products for food and feed that can sustain business during the scale-up (reducing the death valley period for business).

Framework

DG Energy (through Kyriakos Maniatis) understood the need of scale-up for large-scale, so that one day algae biomass can be a commodity crop (eventually for fuels), requires that the business activities can have a success from small to mid-scale. That development requires the possibility to introduce novel foods in the market. In this way there is a relevant algae business activity that can support scale-up as a result of demand. Therefore, DG Energy promoted two fundamental initiatives:

- (1) A mandate for the development of 10 Algae Biomass Standards by CEN the European Normalization organization (2016) currently CEN TC-454 (one of the standards is for algae based biofuels);
- (2) An analysis of requirements for Algae Biomass to become Novel Foods, developed by EU experts, EFSA experts and a EABA expert (Carlos Unamunzaga) that had already the experience of going through the Novel Food process for one microalgae (*Tetraselmis chuii*). The report was completed in September 2018 and contains most of the information and costs to prepare an Algae Novel Food Dossier.

What and how

The workshop has a compact format with a panel-based organization. Each panel has a specific topic and a duration of 1 hour; 20 minutes for the presentation of the topic and 40 minutes for discussion and conclusions. Each panel will have an invited chair, and the participants in the panel will be volunteers from the participant group. There will be minutes from the event with the key conclusions for each Panel.

Outcomes

- Clear dissemination about the current status
- Wish list definition of research needs
- List of priorities for Novel Food algae
- Identification of emerging trends

Workshop coordination

Jean-Paul Cadoret – *President of EABA; General Manager, Greensea*
Vitor Verdelho – *General Manager of EABA; Council Member of the Executive Committee of ISAP – International Society for Applied Phycology; Member of the Board A4F – Algae for Future, SA*

Workshop logistics

Christie de Vrij – *Building on Events – hotel and onsite*
Paulien Hoftijzer – *DLG Benelux – registration, communication and administration*

www.algaeworkshops.org

NOVEL FOOD WORKSHOP

MAY 22

20.00 Welcome dinner
During dinner: networking and 'tour de table' with one minute presentation of each participant with several rounds.

MAY 23

08.00 Opening presentation
All about Novel Foods: Carlos Unamunzaga

09.00 Panel #1
Novel Food experience from other sectors

10.00 Panel #2
EFSA understanding about new algae novel foods and the situation with FDA and other agencies

11.00 Coffee-break

11.30 Panel #3
Arthrospira, Chlorella, Aphanizomenon, Tetraselmis, Odontella and Nannochloropsis case studies

12.30 Sandwich lunch and networking opportunity

13.30 Panel #4
Ranking for new microalgae Novel Foods

14.30 Panel #5
Ranking for new seaweed Novel Foods

15.30 Coffee-break

15.45 Panel #6
Potential economic impact for new novel foods

16.45 Workshop conclusions and EABA future actions

17.00 Workshop closure

Workshop Chair

Carlos Unamunzaga – EABA Steering Board Member, General Manager, Fitoplancton Marino Leading expert in the Novel Food process in Europe.

EABA Coordination

Alexandra Mosh – EABA Vice-President; Head of Algae Division at Abar United

Joachim Henjes – Member of EABA Steering Board; Member of the NA 172-00-16 "Algae and algae products"; Alfred Wegener Institute

Silvio Mangini – EABA Steering Board Member; Archimede Ricerche srl gruppo A&A F.Ili Parodi

Location Martin's Brussels EU Hotel – Boulevard Charlemagne 80, 1000 Brussels, Belgium
Fees: (excluding of VAT)

Novel Food Workshop

€399 – EABA members (in good standing)
€599 – Regular entrance fee
€10 – dinner on May 22

Maximum of 80 participants expected. The registration for the 2 Workshops has a discount of €75.

Standardization Workshop

€399 – EABA members (in good standing)
€599 – Regular entrance fee
€10 – dinner on May 23

Workshop Chair

Indra te Ronde – Secretary of CEN/TC 454 Algae and algae products' with Bert van Asselt, since 2016 with standardization of algae (first as chairman of the CEN/BT/WG 218, and now as chairman of CEN/TC 454 Algae and algae products'. Supported by Marjolein van der Spiegel CEN/TC WG 4 Food/Feed convenor.

EABA Coordination

Joachim Henjes – Member of EABA Steering Board; Member of the NA 172-00-16 "Algae and algae products"; Alfred Wegener Institute

Silvio Mangini – EABA Steering Board Member; Archimede Ricerche srl gruppo A&A F.Ili Parodi

MAY 23

20.00 Welcome dinner
During dinner: networking and 'tour de table' with one minute presentation of each participant with several rounds.

MAY 24

08.00 Opening presentation
All about Algae Standardization: Indra te Ronde

09.00 Panel #1
Status of standards development by TC-454

10.00 Panel #2
Algae standardization worldwide

11.00 Coffee-break

11.30 Panel #3
Standards relevant to microalgae

12.30 Sandwich lunch and networking opportunity

13.30 Panel #4
Standards relevant to macroalgae

14.30 Panel #5
Future steps and schedule, and necessary contributions

15.30 Coffee-break

15.45 Panel #6
Potential economic impact for the standardization in the algae sector

16.45 Workshop conclusions

17.00 Workshop closure