



The Nordic LipidForum proudly presents a webinar on



## Lipids in a sustainable society – from raw materials to inclusion in our diet

Originally at Chalmers University of Technology in Gothenburg, Sweden

- now online

11 – 12 November 2020

### ABOUT

*A strive for sustainable practices is today integrated at all levels in our society; and the UN Sustainable Development Goals have reached the broad mass through high visibility in our every-day life. Not least has our eating and food choices been heavily influenced in recent years, with a multitude of new products with a clear sustainability profile being released every week. So far, the main focus in this dietary shift has been on our protein intake, and there has been an impressive activity both within academia and industry to produce and characterize novel sustainable protein sources stimulating a reduced intake of red meat. Today we therefore talk about a protein shift.*

*However, so far, the lipids of our diet have been very little discussed in our strive to eat more sustainably, despite the fact that e.g., the Nordic Nutrition Recommendations suggest 25–40 E% intake of lipids, but only 10-20E% of protein. Thus, a relevant question is how the nutritional profile our lipid intake affected by the ongoing dietary shift? Also, what are the sustainable sources of lipids that could be better explored to reach a sustainable diet on a more holistic level – i.e., beyond just a change in our protein intake? And, what is needed from sustainable refining and processing of biomasses to produce new oils? Further, how should sensitive lipids with a clear sustainability profile be formulated into foods and supplements? And, not least what does the term sustainability really mean?*

*In this Lipidforum seminar, the concept of sustainability in food processing will be discussed, with a focus on lipid production and formulation. The seminar targets representatives from industry, academia and authorities, and we foresee that both lectures and discussions will provide a new and very important dimension to the current dietary shift.*

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#### Nordic Lipidforum

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## Program

Wednesday 11 November

09:30 Introduction and welcome – Prof. Ingrid Undeland/Sec. Robert Wolff

### Session I – INTRO

Session chair: Prof. Ingrid Undeland

09:40 Sustainability – what does it mean and requires?

*Johan Kuylenstierna - SU, SWE*

10:20 How will the protein shift affect our intake of lipids

*Anne-Maria Pajari – University of Helsinki, FIN*

11:00 Gold sponsorship presentations

11:30 Lunch break

### Session II – Single cell-based oil production

Session chair: Astrid Nilsson

12:00 Yeast as a producer of cocoa butter and jojoba oil

*Verena Siewers – Chalmers University of Technology, SWE*

12:30 Lipid production from marine microalgae - a rotational energy-efficient model for the Swedish west coast

*Cornelia Spetea Wiklund and Valeria Villanova – University of Gothenburg, SWE*

13:00 Expanding the world's access to essential fatty acids - industrial scale cultivation of natural microalgae

*Ragnhild Bleken Rud – Veramaris, NL/NOR*

13:30 Virtual coffee break

13:45 Production of vitamin D rich microalgae oil

*Anita Ljubic – DTU, DK*

### Session III – Biorefinery-approaches for parallel extraction of oil and other compounds from sustainable biomasses

Session chair: Kaisu Riihinen

14:15 Parallel oil and protein production from fish co-products

*Mehdi Abdollahi – Chalmers University of Technology, SWE*

14:45 Virtual coffee break

15:00 Possibilities and challenges connected to oat lipid utilization - a ScanOats perspective

*Cecilia Tullberg – Lund University, Faculty of engineering (LTH), SWE*

15:30 Benefits of CO<sub>2</sub> extraction in the sustainable use of oat biomass

*Markku Mikola – Fazer Mills, FIN*

16:00 Concluding remarks – end of day one





Thursday 12 November

Session IV – Sustainable sources of healthy lipids

Session Chair: Petter Englund



09:00 The role of plant lipids in milk production – climate change and human nutrition

*Heidi Leskinen* – Natural Resources Institute Finland, FIN

09:30 Insects as a source of lipids in our diet

*Sabine Sampels* – SLU, SWE

10:00 Krill as a sustainable, and healthy, source

*Inge Bruheim* – Rimfrost AS, NOR

10:30 Virtual Coffee break

Session V – Sustainable oils – Diet and formulations to maximise benefits

Session Chair: Anna-Maija Lampi

10:45 Formulation of cod liver oils

*Charlotte Jacobsen* – DTU, DK

11:15 Are oleogels sustainable fat replacers?

*Fabio Valoppi* – University of Helsinki, FIN

11:45 Designing sustainable food emulsions

*Karin Schroen*, Wageningen University & Research, NL

12:15 Concluding remarks and take-home message

*See you all at the 31<sup>st</sup> Nordic Lipidforum Symposium 2021 in [Ålesund](#), NORWAY*

Where: ONLINE

Webinar language: English

Webinar fee:

Members (EFL and Nordic LipidForum): FREE

Non-members - industry: EUR 100

Non-members – academia (incl. students): EUR 55

Payment: Invoicing upon registration.

Registration: Fill in registration [here](#).

Sponsors: Please contact organising committee for more information.

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See you all online!

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