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Consiglio Nazionale
delle Ricerche

PROGRAMME

Advanced BlueBio Training Course:

“Resilient Blue Bio-refinery technologies: innovative solutions to valorise fishery side streams”

24th -26th October 2023

**Norwegian University of Science and Technology (NTNU),
Department of Biological Sciences (IBA), Ålesund (Norway)**

Advanced BlueBio Training course: “Resilient Blue Bio-refinery technologies: innovative solutions to valorise fishery side streams”, 24th-26th October 2023, Norwegian University of Science and Technology (NTNU), Department of Biological Sciences (IBA), Ålesund (Norway).

Monday 23 rd October	Tuesday 24 th October	Wednesday 25 th October	Thursday 26 ^h October
	<p style="text-align: center;">Moderator: Janna Crobotova (NTNU, Norway)</p>	<p style="text-align: center;">Moderator: TBD</p>	<p style="text-align: center;">Moderator: TBD</p>
<p style="text-align: center;">Arrival</p>	<p style="text-align: center;">9:00</p> <p style="text-align: center;">Welcome & Programme presentation <i>Assoc. Prof. Janna Crobotova</i></p> <p style="text-align: center;">9:10</p> <p style="text-align: center;">Institutional greetings from Vice-Rector of NTNU i Ålesund <i>Anne-Lise Sagen Major</i></p> <p style="text-align: center;">and</p> <p style="text-align: center;">Head of Department of Biological Sciences Ålesund <i>Tove Havnegjerde</i></p> <p style="text-align: center;">9:30</p> <p style="text-align: center;">BlueBio ERANET Cofund Project coordinator, RCN, Norway <i>Ingeborg Korme</i></p> <p style="text-align: center;">and</p> <p style="text-align: center;">Task 7.3 Leader, CNR, Italy <i>Bernardo Patti</i></p>		

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	Session 1 Advanced technologies and innovative solutions for efficient valorisation of fishery side streams	Session 2 Practical activities and interaction with industry	Session 3 Site visit and teamwork
	10:00 Importance of fish oil: case study of seasonal variation of gurnard oil from discards <i>Dr. Narcisa Bandarra</i> <i>Head of Aquaculture and Upgrading Division</i> <i>Portuguese Institute of Sea and Atmosphere (IPMA), Lisbon, Portugal</i>	9:00 – 13:00 Laboratory activity on extraction of protein and lipid compounds by enzymatic hydrolysis (under supervision of Egidijus Dauksas/Elissavet Kotsoni and Kristine Kvangarsnes)	9:00 – 12:00 Visit to fish farms in the region
		13:00 Lunch	12:00 Lunch
	10:30 Heterotrophic growth of <i>Galdieria sulphuraria</i> on residues from aquaculture and fish processing industries <i>Dr. Stephanie Schönfelder</i> <i>Institut für Lebensmittel- und Umweltforschung e.V. (ILU)</i> <i>Papendorfer Weg 3 14806 Bad Belzig</i>	14:00 Lectures from representatives from the seafood processing industries (3 presentations)	13:00 – 16:00 Teamwork practise sessions - Biorefinery process planning (drafting a research project on biomass biorefinery in the context of the Blue Bioeconomy). Actions needed to implement HCB in the field of biorefinery (team questionnaire)

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	<p>11:00</p> <p>Superchilling of fish – effect on shelf life and quality</p> <p><i>Prof. Turid Rustad</i> <i>Department of Biotechnology and Food Science, Norwegian University of Science and Technology, Trondheim, Norway</i></p>		- Feedback and lessons learned (individual questionnaire)
	11:30 Coffee break	15:30 Coffee break	End of the course
	<p>12:00</p> <p>Achieving zero waste seafood chains via Novel Biorefineries</p> <p><i>Prof. Brijesh K Tiwari</i> <i>Principal Research Officer, Teagasc Food Research Centre</i> <i>Dublin, Ireland</i></p>	<p>16:00 – 17:00</p> <p>Discussion with representatives from industries</p>	Departure of participants

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	<p align="center">12:30</p> <p align="center">Innovative technological solutions for advanced extraction of valuable compounds from pelagic fish side streams and improving their functional properties</p> <p align="center"><i>Assoc. Prof. Janna Cropotova Department of Biological Sciences Ålesund Norwegian University of Science and Technology, Ålesund, Norway</i></p> <hr/> <p align="center">13:00 Lunch</p> <hr/> <p align="center">14:00</p> <p align="center">Emerging processing strategies for quality improvement and side streams valorization of crustaceans</p> <p align="center"><i>Assoc. Prof. Pietro Rocculi Alma Mater Studiorum University, Bologna, Italy</i></p>		
	<p align="center">14:30</p> <p align="center">Extraction of marine lipids from fish side streams: possibilities and challenges</p> <p align="center"><i>Dr. Revilija Mozuraityte</i></p>		

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	<i>SINTEF Ocean, Trondheim, Norway</i>		
From 18:00 Welcome, technical details, organisation, programme, get together, query about expectations	15:00 Full utilisation of sidestreams from the Icelandic fish and aquaculture sectors - Status <i>Dr. Margret Geirsdottir Matis, Reykjavik, Iceland</i>		
	15:30 Coffee break		
18:30 Ice breaking presentation 2' per student	16:00 – 17:30 Discussion with teachers		
19:30 Dinner	19:30 Dinner	19:30 Dinner	