

## DETAILED SCIENTIFIC PROGRAMME

### 8 Sep | Main hall

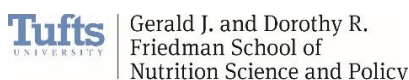
**11:00–19:30 Arrival and registration**

### 8 Sep | Meeting room "Ramón y Cajal"

**12:00–17:00 Special session, by invitation only:** Harmonized methods for cultivated meat LCA.

Organizers: Hanna Tuomisto (*University of Helsinki and the Natural Resources Institute Finland, Luke*) and Nicole Tichenor Blackstone (*Tufts University*)

Sponsor:



Detailed information [here](#).

### 8 Sep | Lecture room 112

**14:00–16:00 Special OPEN session:** Harmonized methods for Food Loss and Waste LCA.

Organizers: FOLOU & WASTELESS projects. Joan Colón, Nancy Peña and Jorge Senan (*BETA Technological Center, University of Vic – Central University of Barcelona*), Ana Isabel Novo de Barros (*University of Trás-os-Montes and Alto Douro*) and Sofia Reis (*ISEKI-Food Association*).

Detailed information [here](#).

### 8 Sep | Central Garden

**16:00–17:00 Visit to the historic building of the University of Barcelona.  
Groups 1 / 2 / 3**

**17:00–18:00 Visit to the historic building of the University of Barcelona.  
Groups 4 / 5 / 6**

**18:00–19:30 Welcome reception & Castells (Human towers) exhibition**

## DETAILED SCIENTIFIC PROGRAMME

### 9 Sep | Main hall

**08:00–18:00 Arrival and registration**

### 9 Sep | Auditorium Paranimf

**08:30–09:00 | Opening session**

UB Chancellor, Mr. Joan Guàrdia

IRTA DG, Mr. Josep Usall

Conference Chair, Ms. Montse Núñez

**09:00–10:00 | Plenary 1**

Chair: Ms. Montse Núñez

Ms. Ana Rodriguez Castaño. *Director General of the Agricultural Production and Markets, Government of Spain.*

Mr. Joan Gòdia Tresanchez. *Director General of Agri-Food Companies, Quality, and Gastronomy, Government of Catalonia.*

Mr. Leo Bejarano i Manjón. *Head of the Catalan Office for Climate Change, Government of Catalonia.*

**10:30–11:30 | Plenary 2**

Chair: Ms. Anna Pallí Güell

J.D. Tàbara. *Global Climate Forum, Berlin, and Autonomous University of Barcelona*

From less negative impact cycles to regenerative spirals. How can we build the conditions for the emergence of net-positive tipping points in global systems?

DETAILED SCIENTIFIC PROGRAMME

9 Sep | Lecture room 112

**11:30–13:00 | Sustainable livestock systems (I)**

Chair: TBD

11:30–11:45 The contribution of dam evaporation to Brazilian cattle water use. Michael Lathuillière. *Stockholm Environment Institute*

11:45–12:00 Absolute Environmental Sustainability of Milk Production in Brazil with a focus on climate change mitigation. Daiane Vitória Dai. *Federal University of São Carlos*.

12:00–12:15 Climate Impact and Ecosystem Services in Cattle Production: Including Non-Provisioning Ecosystem Services in Life Cycle Assessments. Karin von Greyerz. *Swedish University of Agricultural Sciences*.

12:15–12:30 Assessing the Carbon Footprint of Small-Scale Dairy Cattle Systems in Kenya, Africa: An Application of Life Cycle Assessment Methodology. Ricardo Gonzalez Quintero. *International Center for Tropical Agriculture*.

12:30–12:45 Farm efficiency and environmental impact of dairy sheep. Irene Sodi. *University of Pisa*.

12:45–13:00 LCA unveils positive contribution from traditional sheep-farming. Koesling Matthias. *NIBIO – Norwegian Institute of Bioeconomy Research*.

**14:30–16:00 | Sustainable livestock systems (II)**

Chair: TBD

14:30– 14:45 Can milk and beef footprint reductions deliver national climate targets? Daniel Henn. *University of Limerick*.

14:45– 15:00 Integrating ecosystem services into LCA of livestock farming: a comparative analysis of beef production systems in Galicia (NW Spain). Alberto Fraile De Benito. *Universidade de Santiago de Compostela*.

## DETAILED SCIENTIFIC PROGRAMME

15:00- 15:15 Assessing the Overall Sustainability Performance of the Meat Processing Industry Before and After Wastewater Valorization Interventions. Angeliki Petridi. *DIGNITY PRIVATE COMPANY*.

15:15- 15:30 Hunting for meat with low greenhouse gas emissions- a case study of wild boar in Sweden. Danira Behaderovic. *RISE Research Institutes of Sweden*.

15:30- 15:45 Evaluation of the ecoefficiency of post-weaned swine production. Clandio Ruviaro. *Universidade Federal da Grande Dourados*.

15:45- 16:00 Developing a climate scan for pig farms without overlooking the regional policies on nitrogen emissions. Freya Michiels. *ILVO*.

### **16:30-18:00 | Sustainable livestock systems (III)**

Chair: TBD

16:30-16:45 Cropland and carbon footprints of global crop demand for animal feed. Neus Escobar. *Basque Centre for Climate Change (BC3)*.

16:45- 17:00 Spent Coffee Grounds as a sustainable livestock feed ingredient. David Villanueva Viramontes. *AZTI*.

17:00- 17:15 multi-objective optimization of Canadian laying hen feed formulation for least-carbon footprint and -economic costs. Ian Turner. *University of British Columbia*.

17:15- 17:30 Lessons from an Integrated Organic Intensive Feed and Egg Production Systems. Nick Holden. *University College Dublin*

17:30- 17:45 Investigation of lay cycle extension as an environmental sustainability improvement strategy for the Canadian egg industry using LCA and predictive modelling. Ian Turner. *University of British Columbia*.

17:45- 18:00 Ecosystem services and life cycle assessment frameworks provide opposite assessments of animal-production systems. Jean-Charles Joly Frédéric. *INRAE*.

DETAILED SCIENTIFIC PROGRAMME

9 Sep | Lecture room 111

**11:30– 13:00 | Food loss and waste: environmental impacts and solutions**

Chair: TBD

11:30–11:45 Sensor-based solution in retail food waste reduction: an LCA perspective on uncertainties and impacts. Junzhang Wu. *University of Padova*.

11:45– 12:00 Consequential Life Cycle Assessment of a Novel Resource Recovery Solution for Food Waste Management. Haodong Lin. *University College London*.

12:00–12:15 Evaluate environmental impacts of uneaten food in the food chain. Yanne Goossens. *Thuenen Institute of Market Analysis*.

12:15–12:30 Environmental impact of food losses and food waste of the milk sector in Catalonia, Spain. Ariadna Bàllega Calvo. *IRTA*.

12:30– 12:45 Direct valorization of grocery food waste for poultry feed: opportunities to improve sustainable egg production. Shaiyan Siddique. *The University of British Columbia Okanagan*.

12:45– 13:00 Food waste reduction strategies in independent restaurants from the eco-efficiency perspective. Sergey Mikhaylin. *Université Laval*

**14:30– 16:00 | Sustainable cropping systems (I)**

Chair: TBD

14:30– 14:45 Urbanization of food production: Can indoor vertical farming reduce the environmental footprint of kitchen herbs? Wanner Silvan. *Zurich University of Applied Sciences*.

14:45–15:00 LCA comparison of vertical and rooftop farming with conventional agricultura. Joan Muñoz Liesa. *KTH*.

15:00– 15:15 LCA to inform detailed agricultural practice ecodesign at farm scale, example of viticulture. Renaud Gentié Christel. *ESA*.

## DETAILED SCIENTIFIC PROGRAMME

15:15-15:30 Life Cycle Assessment (LCA) of Frost Protection Methods in Viticulture: A Conceptual Framework to Assess and Compare Different Technologies. Vincent Baillet. *Ecole Supérieure des Agricultures (ESA)*

15:30- 15:45 Winery 4.0: technology innovations to improve grape production sustainability. Michele Zoli. *Department of Environmental Science and Policy - University of Milan.*

15:45- 16:00 Assessing the environmental performance of valorisation opportunities for sunflower hulls. Villi Ieremia. *KU Leuven.*

### **16:30- 18:00 | Sustainable cropping systems (II) and Innovations in food production beyond the farm gate**

Chair: TBD

16:30 - 16:45 Improving rice production sustainability through variable rate fertilization and alternative water management. Michele Zoli. *Department of Environmental Science and Policy - University of Milan.*

16:45-17:00 Towards climate-neutral agriculture: exploring scenarios for arable and dairy farms. Emily Miranda Oliveira. *INRAE.*

17:00-17:15 Assessing Organic Waste Products in LCA: Insights from Agribalyse. Melissa Cornelus. *INRAE.*

17:15-17:30 Comparison between a delivery service of ready-to-cook ingredients and a meal prepared by a home helper for the elderly. Gremy-Gros Cécile. *Université d Angers.*

17:30-17:45 Analyzing the impacts of the production of vegetable oil: understanding the role of packaging impacts. Diana Ita Nagy. *PELCAN- Pontificia Universidad Católica del Perú.*

17:45- 18:00 Interlaboratory collaborative life cycle assessment study in the food and packaging sector. Andrea Casson. *Università degli studi di Milano.*

DETAILED SCIENTIFIC PROGRAMME

## 9 Sep | Lecture room Aula Magna

### **11:30-13:00 | Combined nutritional and environmental assessment of foods and diets (I)**

Chair: TBD

11:30- 11:45 REFRESH: a Validated Public Health Screener for Healthy Diets with Low Environmental Impact. Ujué Fresán. *ISGlobal*

11:45- 12:00 The Planet Health Conformity-Index: bridging the gap between nutritional and environmental sustainability in nLCAs. Toni Meier. *INL Institute for Sustainable Agriculture and Food Economics*.

12:00- 12:15 Do Swiss food trends lead to healthier, more nutritious and environmentally friendly diets? Alba Reguant-Closa. *Agroscope*.

12:15- 12:30 Environmental and nutritional performance of meal trays served in public collective catering. Caroline Penicaud. *INRAE*.

12:30-12:45 Nutrition-related health and environmental impacts of shifting to recommended diets in the US. Brooke M. Bell. *Friedman School of Nutrition Science and Policy, Tufts University*.

12:45- 13:00 Environmental and Health Impact Assessment of 6,000 Menu Items. Genta Sugiyama. *Waseda University*.

### **14:30-16:00 | Combined nutritional and environmental assessment of foods and diets (II)**

Chair: TBD

14:30- 14:45 Changes in dietary-related greenhouse gas emissions through time in Peruvian cities. Joan Sanchez Matos. *Pontificia Universidad Católica del Perú*.

14:45- 15:00 Climate change impacts of dietary patterns of young adults in Canada. Sadaf Mollaei. *George Brown College*.

15:00- 15:15 Environmental Impacts and Nutrition of Dietary Patterns: A Case Study of Canadian Provinces. Goretty Días. *University of Waterloo*.

## DETAILED SCIENTIFIC PROGRAMME

15:15- 15:30 Nutritional life cycle assessment of Canadian grains, oilseeds and pulses. Nicole Bamber. *University of British Columbia, Okanagan campus.*

15:30- 15:45 Combined nutritional and environmental assessment of the Portuguese Dietary Pattern. Joana Bôto. *Faculty of Nutrition and Food Sciences, University of Porto.*

15:45- 16:00 Towards a combined environmental and nutritional Life Cycle Assessment of the four most caught fish by Belgian fisheries. Matthys Sarah. *KU Leuven.*

### **16:30-18:00| Combined nutritional and environmental assessment of foods and diets (III)**

Chair: TBD

16:30- 16:45 Calculating thresholds for differentiating different levels of climate friendliness for meals. Miguel Brandao. *KTH - Royal Institute of Technology.*

16:45- 17:00 Methodological considerations for quantifying the effect of nutritional compositions and product formulation in environmental life cycle assessments of food items. Ashley Green. *ETH Zurich.*

17:00- 17:15 Multi-criteria decision analysis (MCDA) as a context-adaptable weighting method for Life Cycle Assessment impact categories in sustainable nutrition science. Elise de Boer. *University Medical Center Groningen.*

17:15- 17:30 Mitigating environmental impacts through more sustainable diets: consequential life cycle assessment of various regional diet shift scenarios. Guillaume Aurore. *KU Leuven & UCT Prague.*

17:30- 17:45 Life cycle environmental consequences of a more cycling-oriented mobility including additional calorie intakes and regional diet evolutions. Anne de Bortoli. *CIRAIG, PolyMTL.*

17:45- 18:00 A Protein Quality Adjusted nutritional-LCA of Soy-Based Meat and Dairy Alternatives: Understanding the Environmental and Nutritional Implications of Food Processing. Eric Mehner. *Agroscope.*



DETAILED SCIENTIFIC PROGRAMME

## 9 Sep | Lecture room Aula Capella

### 11:30–13:00 | Greenhouse gas accounting and reporting

Chair: TBD

11:30– 11:45 Integrating land use and land-use change greenhouse house gas emissions into the French life cycle inventory database Agribalyse. Xavier Boton. *Arvalis institut du végétal*.

11:45–12:00 Methodological development to include the effect of land management changes in GWP of field crops. Noora Anniina Lehtilä. *Natural Resources Institute Finland (Luke)*

12:00– 12:15 Quantifying land conversion carbon emissions in the absence of traceability. Jürgen Reinhard. *AdAstra Sustainability*.

12:15–12:30 Radiative forcing footprints for the Australian red meat industry. Brad Ridoutt. *CSIRO*.

12:30–12:45 Application of environmentally extended input-output data to estimate greenhouse gas emissions attributable to packaged foods and beverages in Australia. Maria Shahid. *The George Institute for Global Health*.

12:45– 13:00 Carbon footprint of low-input livestock systems: accounting for natural baseline emissions within the ecosphere. Guillermo Pardo Nieva. *Basque Centre for Climate Change - BC3*.

### 14.30– 16:00 | Topical session 1

Carolina Carrillo Diaz. *Mérieux NutriSciences | Blonk*

Bridging the Environmental Footprint Data Gap: Enhancing Collaboration between Users and Creators of Background Databases.

### 16:30–18:00 | Topical session 2

Jürgen Reinhard and Lisanne de Weert. *AdAstra Sustainability*

Renan Novaes. *Embrapa*

Iana Salim. *Mérieux NutriSciences | Blonk*

Opportunities from land use change assessments frameworks to unlock supply chain interventions.

14th International  
Conference

**LCAFOOD** 2024 

HEALTHY FOOD  
SYSTEMS FOR  
A HEALTHY PLANET

## DETAILED SCIENTIFIC PROGRAMME

### 9 Sep | Conference dinner

#### **20:00 L'Estació Espai Gastronòmic**

Address: Estació de França (France Railway Station), Avinguda del Marquès de l'Argentera 6, Barcelona

## DETAILED SCIENTIFIC PROGRAMME

### 10 Sep | Main hall

**08:00–18:00 Arrival and registration**

### 10 Sep | Auditorium Paranimf

**10:30–11:30 | Plenary 3**

Chairs: Ms. Carmen Vidal and Ms. Mariluz Latorre

Joan Romanyà. *University of Barcelona*

Healthy soils for a healthy life.

**16:30–17:30 | Plenary 4**

Chairs: Ms. Alba Bala and Mr. Llorenç Milà i Canals

Roundtable with Louise Fresco (*Wageningen University & Research -WUR*) and Marta Rivera-Ferre (*INGENIO -CSIC-UPV-*)

Sustainable food systems: what, why, how?

### 10 Sep | Lecture room 112

**08:30–10:00 | Life cycle sustainability assessment of food systems**

Chair: TBD

8:30– 8:45 Integrated sustainability assessment of insect-fed chicken: Integrated Sustainability Index. Dusan Ristic. *German Institute of Food Technologies (DIL e. V.)*.

8:45–9:00 Sustainability performance of innovative ruminant systems in Europe. Pietro Goglio. *Department of Agricultural, Food and Environmental Science, University of Perugia*.

9:00–9:15 DEXi a framework to integrate LCA in sustainability assessment. Application to animal production system. Aurélie Wilfart. *INRAE*.

## DETAILED SCIENTIFIC PROGRAMME

9:15–9:30 LCA to feed multi-criteria sustainability assessment of intermediate food value chains. Mehran Naseri Rad. *RISE – Research Institutes of Sweden*.

9:30– 9:45 A practitioner-driven methodological framework to assess the environmental, social and economic sustainability of regional food products. Barbara Mejía. *Agroscope, LCA Group*.

9:45– 10:00 Environmental and Social Life Cycle Assessment of drinking water. Marianna Garfí. *Technical University of Catalonia (UPC)*.

### **11:30–13:00| Integration of agroecology and soil health in LCA**

Chair: TBD

11:30– 11:45 Enhancing Life Cycle Assessment Methods for Agroecological Systems: Insights from a UK Case Study. Sally Westaway. *University of Reading*.

11:45–12:00 Mapping a Path to Climate Neutrality for Nebraska Agriculture: Approach and Findings. Martin Heller. *Blonk Consultants*.

12:00– 12:15 Organic farming expansion: identifying areas optimal for achieving EU organic agriculture goals using spatial-explicit LCA modelling. Anna Muntwyler. *Institute of Environmental Engineering, ETH Zurich*.

12:15– 12:30 Combining LCA results and soil indicators for long-term decision making: a case study with Californian cotton. Ellie Williams. *PRÉ Sustainability*.

12:30– 12:45 Evaluation of different fertilization scenarios in a vineyard, integrating the LCA methodology and the RothC model to analyze carbon dynamics in soil. Ana Cavallo. *University of Bologna*.

12:45– 13:00 Climate change impacts of organic crops in Canada. Shenali Madhanaroopan. *Riverside Natural Foods Ltd*.

### **14:30–16:00| Sustainability in fisheries and aquaculture systems**

Chair: TBD

14:30– 14:45 How do illegal, unreported, and unregulated (IUU) fishing activities influence Life Cycle Assessment results? Ian Vázquez Rowe. *Pontifical Catholic University of Peru*.

## DETAILED SCIENTIFIC PROGRAMME

14:45- 15:00 Building Life Cycle Inventories of IUU fishing activities in the Peruvian EEZ using remote sensing techniques. Eizo Muñoz. *PELCAN Pontificia Universidad Católica del Perú.*

15:00- 15:15 BASES: a biophysical assessment framework for valuating ecosystem services. Aurélie Wilfart. *INRAE*

15:15- 15:30 A Novel Approach to including Ecosystem-Scale Biodiversity Impacts of Wild Capture Fisheries in Life Cycle Impact Assessment. Arnaud Helias. Elsa - *INRAE*

15:30- 15:45 Operational Accounting of two Major Drivers of Marine Biodiversity Loss in LCA of Seafood Products. Aurore Wermeille. *Sayari*

15:45- 16:00 Expanding Life Cycle Impact Assessment to account for marine plastic emissions: a case study for the fishing industry. Cecilia Askham. *NORSUS AS.*

## 10 Sep | Lecture room 111

### **08:30-10:00| LCA and footprint studies explained by companies**

Chair: TBD

8:30- 9:00 Assessing Oatly's Handprint. Vasiliki Takou. *Oatly AB.*

9:00- 9:15 Using environmental footprint in dairy and plant-based dairy alternative sectors. Saioa Ramos. *AZTI.*

9:15- 9:30 Creating Novel Value in the Pork Chain Through LCA-Quantified Carbon Reductions Enabled by Genetic Innovation. Lindsay Case. *PIC.*

9:30- 9:45 Carbon footprint and decarbonization of a territorial agrifood research institute. Núria Martínez Soler. *IRTA*

9:45- 10:00 A Comparative Life Cycle Assessment of RSPO certified and non-certified palm oil in Malaysia, Indonesia, Thailand, Colombia, and Nigeria, with inclusion of regionalisation, time Series, and diverse FFB Suppliers. Iris Helena Weidema. *2.-0 LCA consultants.*

## DETAILED SCIENTIFIC PROGRAMME

### **11:30–13:00| Circular food systems**

Chair: TBD

11:30–11:45 Circular integration of insect bio-converting food waste into protein: A Life Cycle Assessment perspective on black soldier fly. Vikunu Khieya. *German institute for Food Technology e. V. (DIL)*

11:45– 12:00 Potential of insects for the nutrient circularity in food systems through the framework of Life Cycle Assessment. Sergiy Smetana. *DIL*.

12:00– 12:15 Framework to assess the potential of circular food system technologies. Clark Halpern. *Wageningen University*.

12:15– 12:30 Leveraging circular nutrients to improve the sustainability of urban agricultura. Maria Angelica Mendoza Beltran. *2.-0 LCA consultants*.

12:30– 12:45 An Ecodesign Framework for Sustainable Food Product Development. Beatriz Ines Queiroz Lopes da Silva. *DIL Deutsches Institut für Lebensmitteltechnik e.V.*

12:45– 13:00 Life Cycle Assessment for the eco-design of an innovative strategy for the valorization of whey in a bioeconomy approach. Lauranne Collet. *AgroParisTech - UMR SayFood*

### **14:30–16:00| Cocoa and olive oil: sustainability assessments**

Chair: TBD

14:30–14:45 Land use change emissions linked to Ivorian cocoa exports. Carina Miriam Mueller. *Stockholm Environment Institute*.

14:45–15:00 A Landscape-scale Biodiversity Impacts Analysis of Côte d'Ivoire's Cocoa Cultivation Along Export Supply Chains. Shuntian Wan. *ETH Zürich*.

15:00–15:15 Social LCA to Support Decision-Making in the Cocoa Supply Chain. Naeem Adibi. *WeLOOP*.

15:15–15:30 Plastic biopolymers: a second life to olive oil. Almudena Hospido. *Universidade de Santiago de Compostela*.

15:30– 15:45 Environmental Assessment of the daily intake of polyphenols derived from Extra Virgin Olive Oil in the Mediterranean Population. Maria Vittoria Di Loreto. *Università Campus Bio-Medico di Roma*.

DETAILED SCIENTIFIC PROGRAMME

10 Sep | Lecture room Aula Magna

**08:30–10:00| Life cycle inventory: modelling, databases and tools (I)**

Chair: TBD

8:30–8:45 A food biodiversity database has been born! Karin Morell. *RISE Research Institutes of Sweden*.

8:45– 9:00 The Biodiversity Value Increment method in the GaBi database. Jan Paul Lindner. *University of Augsburg*.

9:00– 9:15 Agro-SCAN: A new Multi-Regional Input-Output database for estimating cropland and calorie footprints of agri-food consumption. Neus Escobar. *Basque Centre for Climate Change (BC3)*.

9:15– 9:30 Incorporating environmental impact data in existing agri-food software using API: a case study on Haifa NutriNet. Eline Willems. *Pre sustainability*.

9:30– 9:45 Promoting harmonization of life cycle inventory and food composition databases through semi-automatic standardization. Thomas Nemecek. *Agroscope*.

9:45– 10:00 Batch generation of agricultural LCIs: comparison of strategies. Patrik Henriksson. *Stockholm University*.

**11:30–13:00| Life cycle inventory: modelling, databases and tools (II)**

Chair: TBD

11:30– 11:45 The big Climate Database – 500 food products. Jannick Schmidt. *2-0 LCA consultants*.

11:45–12:00 Trase/Orbae: spatially-explicit supply chain mapping of forest risk commodities for scope 3 GhG emissions. Michael Lathuilière. *Stockholm Environment Institute*.

12:00–12:15 An open-source toolset to assess deforestation impact embodied in trade of bio commodities. Selene Eliana Patani. *ARCADIA SIT*

## DETAILED SCIENTIFIC PROGRAMME

12:15-12:30 Development of the Crop System Efficiency Index. Iana Camara Salim. *Mérieux NutriSciences / Blonk*.

12:30- 12:45 Exploring HESTIA – a platform storing standardised data on agricultural production systems. Lucy Walker. *University of Oxford*.

12:45- 13:00 Development of an Italian Life Cycle Inventory Database of Agri-Food Products (ILCIDAF). Bruno Notarnicola. *Università degli Studi di Bari Aldo Moro*.

### **14:30-16:00 | Life cycle inventory: modelling, databases and tools (III)**

Chair: TBD

14:30-14:45 The GRINS Project for the development of Life Cycle Inventory databases of beef cattle raised in Italy: preliminary results of the statistical dataset. Bruno Notarnicola. *Università degli Studi di Bari Aldo Moro*.

14:45-15:00 Environmental assessment of swine and beef cattle sectors in Catalonia. Marta Ruiz. *IRTA*.

15:00-15:15 Cause-effect-based approach to inventory and model pig products in slaughterhouses. Annika Erjavec. *2.-0 LCA Consultants*.

15:15-15:30 The water footprint of global crop production – Country level and gridded LCI data for 175 crops from 1990 to 2019. Markus Berger. *University of Twente*.

15:30-15:45 Can we account for all agri-food chemicals in the impact assessment? Nyberg Carl Oskar Peter. *Stockholm Resilience Centre*.

15:45-16:00 Global pesticide application data for use in LCA. Yuyue Zhang. *QSA, DTU (Technical University of Denmark)*

### **18:00-19:00 | LCA Food Scientific committee meeting**



DETAILED SCIENTIFIC PROGRAMME

10 Sep | Lecture room Aula Capella

**08:30–10:00 | Ecolabelling**

Chair: TBD

8:30– 8:45 A Comparison of Databases to assess the climate impact of labeled foods. Katrin Geburt. *Thünen Institute of Market Analysis*.

8:45–9:00 How to develop robust Sustainability labels for food? Learnings from the Environmental Footprint. Laura Garcia Herrero. *EC-JRC*.

9:00–9:15 Reducing complexity for a single score for food products. Felix Lücking. *Corsus corporate sustainability GmbH*.

9:15–9:30 Product Environmental Footprints of organic food – status quo and improvement potentials. Antony Florian. *Öko-Institut e.V. Institute for Applied Ecology*.

9:30– 9:45 The environmental footprint of packaged food and beverage products in Australian supermarkets. Pankti Shah. *Deakin University*.

9:45–10.00 Ecolabeling, time for action; the French case. Vincent Colomb. *ADEME*.

**11:30–13:00 | Communication of LCA results and integration of ESG criteria into business**

Chair: TBD

11:30–11:45 From gut feeling to data driven decisions in Michelin starred restaurants. Ellie Williams. *PRé Sustainability*.

11:45–12:00 From LCA to on-the-ground impact- a case study with Californian cotton. Danai Mangana. *PRé Sustainability*.

12:00–12:15 Accounting for Overfishing in Environment Labelling – Comparing LCA and Fishery Science Methods. *Gregoire Gaillet. Sayari*.

12:15–12.30 Scaling LCA capabilities within companies. Peter-Jan Roose. *BrightWolves*.

## DETAILED SCIENTIFIC PROGRAMME

12:30–12:45 Assessing impacts on biodiversity on an Aquaculture portfolio. Anne Asselin. *SAYARI*.

12:45–13:00 Biodiversity footprint for food products: a research agenda. Laura Garcia Herrero. *EC-JRC*.

### **14:30–16:00 | Topical session 3**

Delanie Kellon. *Global Feed LCA Institute (GFLI)*.

Achieving alignment and transparency within the feed and food supply chain: embracing the complexity of new developments in impact assessment and modelling.

## 10 Sep | Paranimf Gallery and Cloister

### **17:30–18:00 | Poster session**

## 10 Sep | Central Garden

### **18:00–19:00 Olive oil tasting**

## 10 Sep | Scientific committee side event

### **20:00 Scientific committee side event**

DETAILED SCIENTIFIC PROGRAMME

## 11 Sep | Main hall

**08:00–18:00 | Arrival and registration**

## 11 Sep | Auditorium Paranimf

**10:30–11:30 | Plenary 5**

Chairs: Ms. Almudena Hospido and Mr. Ralph Rosenbaum

Business roundtable, with Sarah Sim (*Unilever*) and Lisbeth Sofia Hernández (*OSI*)

Road to sustainability: green business transition

**14:00–15:00 | Closing ceremony**

Chair: Ms. Montse Núñez

## 11 Sep | Lecture room 112

**08:30–10:00 | Novel foods and protein diversification (I)**

Chair: TBD

8:30–8:45 Greenhouse gas emissions of farmed Ulva and three conservation methods. Anna Frida Maria Axelsson. *RISE Research Institutes of Sweden*.

8:45–9:00 Life Cycle Assessment of microalgae production for food and feed: from light to dark. Abbigel Sadhu. *Deutsch Institute für lebensmittle (DIL)*.

9:00–9:15 Life Cycle Assessment of Oatly products compared to dairy equivalents for Oatly's key global markets. Elisabeth Keijzer. *Blonk Consultants*

## DETAILED SCIENTIFIC PROGRAMME

9:15–9:30 Life cycle assessment of Beefy-9 and Beefy-R serum-free culture media for cell-cultivated beef production. Nicole Blackstone. *Friedman School of Nutrition Science and Policy, Tufts University.*

9:30–9:45 Life Cycle Assessment of Growth Factor Production for Cultivated Meat Through Molecular Farming. Taiwo Omotosho. *University of Helsinki.*

9:45– 10:00 Looking forward a sustainable insect meal value-chain: a LCA study on yellow mealworm meal production. Matteo Cordara. *CNR-STIIMA.*

### **11:30–13:00 | Novel foods and protein diversification (II)**

Chair; TBD

11:30–11:45 The nutritional and environmental consequences of replacing meat and dairy products with market-ready alternatives in recommended and average Swiss diets. Eric Mehner. *Agroscope.*

11:45–12:00 The sustainability and nutritional profile of alternative protein sources – Avoiding fallacy by including protein quality and nutrient density in LCIA of novel foods. Julian Quandt. *Augsburg University.*

12:00– 12:15A novel nutrient quality index for life cycle assessment of protein-rich foods. Ana Fernández Ríos. *University of Cantabria.*

12:15–12:30 Global environmental impact of replacing livestock with cell-cultured and microbial proteins. Mohammad El Wali. *University of Helsinki.*

12:30–12:45 Comparative Life Cycle Assessment of Innovative Plant-Based and Conventional Meat Products. Joel Bonales Revuelta. *EarthShift Global.*

12:45–13:00 Comparative assessment of alternative protein sources for meat substitution. Sergiy Smetana. *DIL.*

## 11 Sep | Lecture room 111

### **08:30–10:00 | Sustainable territories and economies**

Chair; TBD

8:30–8:45 LCA of territorial food supply scenarios: a spatialized and prospective approach. Lazare Deteix. *INRAE.*

## DETAILED SCIENTIFIC PROGRAMME

8:45–9:00 Advancing the sustainability transformation of agriculture under the European Green Deal: An Agent-Based LCA for policymaking support. Raül López i Losada. *Centre for Environmental and Climate Science – Lund University.*

9:00–9:15 Comparative assessment of the land footprint and regulating ecosystem services embodied in the EU-27 consumption of vegetable oils: an environmental trade-off analysis among substitutes goods. Giovanni Bausano. *University of Padova.*

9:15–9:30 Mapping Deforestation Embodied in EU Bio-based Imports. Teresa Armada Bras. *European Commission, Joint Research Centre (EC-JRC).*

9:30–9:45 Carbon and Biodiversity Footprints of the Swiss food consumption. Wanner Silvan. *Zurich University of Applied Sciences.*

9:45–10:00 "Land-related biodiversity impacts in global agri-food supply chains a spatially-resolved assessment from 1995 to 2022". Schlosser Veronika. *Technical University of Munich.*

### **11:30–13:00| Sustainability of food systems in developing and emerging economies**

Chair; TBD

11:30–11:45 Environmental and socio-economic analysis of the Ivorian market vegetables suburban systems. Moussa Dosso. *CIRAD UPR Recyclage et risque*

11:45– 12:00 Life Cycle Assessment of major Myanmar crop products using HESTIA. Valentina Caldart. *University of Oxford.*

12:00–12:15 LCA of the Ivorian cashew value chain as a key component of a corporate sustainability framework. Angel Avadí. *Cirad UPR Recyclage et risque.*

12:15–12:30 LCA of Robusta coffee production in Vietnam:How grafting and cycle lengths influence the impacts?. Sandra Payen. *Cirad.*

12:30– 12:45 LCA and carbon sequestration evaluation: cupuacu jam from agroforestry in the Amazon rainforest. Valeria Arosio. *Demetra.*

## DETAILED SCIENTIFIC PROGRAMME

12:45- 13:00 Social Life Cycle Assessment of low -tech digesters in small-scale farms. Kurt Eduardo Ziegler Rodriguez. *Universitat Politècnica de Catalunya*.

### 11 Sep | Lecture room Aula Magna

#### **08:30-10:00| Life cycle impact assessment: new developments (I)**

Chair; TBD

8:30-8:45 Development of a regionalized dynamic weighting method for the environmental impact of alternative protein sources. Aditya Francis. *German Institute for Food Technology e. V.*

8:45-9:00 Ecotoxicity assessment of pesticide use based on Japanese PRTR data. Marika Muramoto. *Waseda University*.

9:00-9:15 Framework for evaluating animal welfare in life cycle assessments of diets. Sebastian Richter. *Research Institute of Organic Agriculture (FiBL)*

9:15-9:30 Biodiversity impacts of major crops – Spatially explicit characterization factors for 152 major crops. Julian Quandt. *Augsburg University*.

9:30- 9:45 Assessing the impact of vegetables on biodiversity in life cycle assessment. Pépin Antonin. *INRAE*

9:45-10:00 Characterization factors for land use impacts on terrestrial ecosystem quality considering intensities and fragmentation. Laura Scherer. *CML, Leiden University*.

#### **11:30-13:00| Life cycle impact assessment: new developments (II)**

Chair; TBD

11:30- 11:45 The effect of El Niño events and climate change in the water scarcity characterization factors based on AWARE. Joan Sanchez Matos. *Pontificia Universidad Católica del Perú*.

11:45- 12:00 Drivers of trends and uncertainty in prospective water scarcity impact assessment with AWARE2.0. Georg Seifudem. *CIRAIG, Chemical Engineering Department, Polytechnique Montreal*.

## DETAILED SCIENTIFIC PROGRAMME

12:00–12:15 Resource criticality in LCIA: regionalised characterisation factors for water and land. Lazare Deteix. *INRAE*.

12:15–12:30 Regional characterization of the albedo impacts of agricultural land use at the global scale. Kathryn Loog. *CIRAIG, Polytechnique Montreal*.

12:30–12:45 Assessment of Agricultural Microplastic Emissions Impacts via Novel Comprehensive Multimedia Characterization Factors. Juliette Louvet. *CIRAIG, Polytechnique Montréal*

## 11 Sep | Lecture room Aula Capella

### **08:30–10:00| Topical discussion session 4**

Niels Jungbluth. *ESU-services Ltd*.

Recommendations for sustainable nutrition in the political debate.

### **11:30–13:00| Topical discussion session 5**

Roline Broekema. *Wageningen University and Research*.

Ecolabeling of food products is happening the devil is in the details.

DETAILED SCIENTIFIC PROGRAMME

## 12 Sep | Visit to IRTA's facilities

**8:30 - 18:00** IRTA La Ràpita

**8:30 - 18:00** IRTA Mas Badia and IRTA Monells

**9:00 - 16:00** IRTA Torre Marimon

(+ details [here](#))



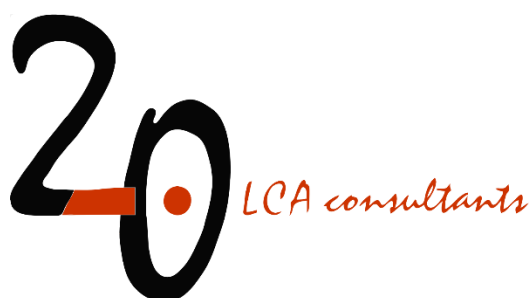
DETAILED SCIENTIFIC PROGRAMME

## OUR SPONSORS

### *Diamond*



### *Gold*



### ***Other sponsorships***

**UVIC**

UNIVERSITAT DE VIC  
UNIVERSITAT CENTRAL DE CATALUNYA

### ***Sponsored pre-conference session***

**Tufts**  
UNIVERSITY

Gerald J. and Dorothy R.  
Friedman School of  
Nutrition Science and Policy