

28th ICABR Conference Program

Date: Tuesday, 11/June/2024

8:00am Conference Registration
- Location: **Oscar Niemeyer Auditorium Entrance**

5:00pm
9:00am **Pre-Conference on Establishing a Sustainable Rural Economy**
- Location: **Oscar Niemeyer Auditorium**
4:00pm Session Chair: **David Zilberman**

6:00pm Conference Reception
- Location: **Hotel Bonadies**

8:00pm

Date: Wednesday, 12/June/2024

8:00am	Conference Registration		
-	Location: Oscar Niemeyer Auditorium Entrance		
5:00pm			
8:30am	ICABR 2028 Opening Ceremony		
-	Location: Oscar Niemeyer Auditorium		
9:00am	Session Chair: Justus Wesseler		
9:00am	Keynote Address by Douglas Gollin		
-	Location: Oscar Niemeyer Auditorium		
10:00am	Session Chair: Justus Wesseler		
10:00am	Morning Coffee Break		
-	Location: Oscar Niemeyer Auditorium Entrance		
10:30am			
10:30am	Plenary 1 - The co-existence of capitalism and democracy- implication to the bioeconomy		
-	Location: Oscar Niemeyer Auditorium		
12:00pm	The co-existence of capitalism and democracy- implication to the bioeconomy		
	Chair(s): David Zilberman		
	Presenter(s): Gordon Rausser, Avishay Braverman, John Zysman, John Cioffi		
12:00pm	Parallel Session 1a - One Health at the Crossroads: Environment, Agriculture, Forests, and Medical Biotechnology	Parallel 1b - Exploring the Intersections of Climate Change, Bioeconomy, and Sustainable Agricultural Practices	Parallel 1c - Modelling and Measuring the Bioeconomy
-	Location: Oscar Niemeyer Auditorium	Location: Vittorio Santaniello Room	Location: Robert Evenson Room
1:30pm	Location: Oscar Niemeyer Auditorium	Session Chair: Jose Benjamin Falck Zepeda	Session Chair: José Maria Ferreira Jardim Silveira
	One Health at the Crossroads: Environment, Agriculture, Forests, and Medical Biotechnology and book presentation	Impact of cargo theft on the bioenergy chain and challenges	Assessing the Impact of Speeding Up R&D Transfer on Agricultural Productivity and Food Security
	Chair(s): Giovanni Tria	Paulo Ricardo Prates Boitrago, Carolina da Silveira Bueno	Zuzana Smeets Kristkova, Yan Jin, Max Kardung, Justus Wessler
	Presenter(s): Giuseppe Novelli, Carl Pray, Pasquale Scandizzo, Ernesto Sanchez Triana		
		Impact of Productivity Growth on Climate Change and The Circular Bioeconomy: A Bibliometric Analysis	Sustainable productivity growth in agriculture: role of R&D investments and technology transfer
		Maria Lourdes Ordonez Olivo, Erika Luzon Tandazo	Zuzana Smeets Kristkova, Robert M'Barek, David Cui, Michiel van Dijk, Hans van Meijl, Tomas Ratering
		Understanding levers and barriers of the emergence and persistence of emerging rural circular biocluster initiatives : case of Occitanie region in the south of France	The role of the bioeconomy in enhancing socioeconomic resilience in the EU amidst external shocks: An analysis of the period 2008-2021
		Stéphane Ondo Ze, Mechthild Donner, Sandrine Costa, Zouhair Bouhsina	Jesus Lasarte-López, Nicola Grassano, Bartłomiej Rokicki, Robert Mbarek
		Evaluating Farmer Perceptions in the Implementation of the Net Zero Initiative in South Africa	R&D investments to offset climate change impacts on US agricultural productivity
		Colleta Gandidzanwa, Elizabeth Mkandawire	Ariel Ortiz-Bobea, Robert Chambers, Yurou He, David Lobell
		Climate emergency as opportunity to coffee production	The territorial dimension of the EU bioeconomy: Applying firm-level

transformation: policies and conditions

Rafael Pastre, Bianca Muniz Corrêa

data for the analysis of regional bio-based industry

Jesús Lasarte-López, Nicola Grassano, Bartłomiej Rokicki, Robert M'barek

Assessing Saskatchewan Forage Production Carbon and Nitrogen Emissions

Judson Michael Christopherson, Stuart J Smyth

Broadening the picture – a economic-ecological production function including ecosystem services and anthropogenic inputs

Anne Sophie Dietrich, Helena Hansson, Riccardo Bommarco, Giulia Vico, Valeria Carini

Understanding intention to participate in smartphone-based data collection: The case of smallholder farmers in Uganda

Nathaline Onek Aparo, Walter Odongo, Hans De Steur

1:30pm

Lunch

Location: **Ravello**

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2:30pm

2:30pm

-

4:00pm

Parallel 2a - Panel Session Smart Policies for Bioeconomy Systems in the Face of Climate Change

Location: **Oscar Niemeyer Auditorium**

Smart Policies for Bioeconomy Systems in the Face of Climate Change

Chair(s): **Justus Wesseler**

Presenter(s): **Gordon Rausser, Justus Wesseler, Joshua Graff Zivin**

Parallel 2b - Assessing the Benefits and Costs of the Bioeconomy

Location: **Vittorio Santaniello Room**

Session Chair: **Leigh Anderson**

Advancing Sustainability: A Systematic Exploration of 4.0 Technologies in Agriculture and their Implications for Food Security and Climate Resilience

Camila Veneo C. Fonseca, Renata Martins Predo, Rodrigo Lanna F. da Silveira

Parallel 2c - Resilience, Productivity and Digital Innovations of Ukrainian Farms and Global Food System Sustainability amid Russia's Invasion

Location: **Robert Evenson Room**

Resilience, Productivity and Digital Innovations of Ukrainian Farms and Global Food System Sustainability amid Russia's Invasion

Chair(s): **Rico Ihle, Oleg Nivievskyi**

Presentations

Pest outbreaks in the EU: Identifying optimal management strategies and assessing the potential of a sensor-based detection technology

Stelios Kartakis, Kutay Cingiz, Justus Wesseler

Resilience of Ukrainian Farms and War-Induced Shocks

Valentyn Litvinov, Mariia Bogonos, Rico Ihle

Impacts of Energy Price Changes on Productivity and Sustainability of Ukrainian Agriculture

Hryhorii Stolnikovych, Mariia Bogonos

Assessing the socioeconomic impact of developing and implementing a novel risk assessment scheme for LRP, in the EU

Global Sustainability Implications of the Increased Synchronization of International Commodity Prices

Rico Ihle, Ziv Bar-Nahum, Oleg Nivievskyi, Ofir D. Rubin

João Godinho, Kutay Cingiz, Justus Wesseler

Digital technologies as a driver of resilience and institutional transformation in Ukrainian agriculture

Taras Gagalyuk, Maryna Kovalova, Alfons Balmann

Rural technical assistance to increase productivity: an evolutionary approach to the behavior of family farmers in the Brazilian Amazon.

Denis Rodrigues Oliveira, Matheus Peredo Lisboa, Carolina da Silveira Bueno

True cost accounting applied on cultured meat: realism and practicalities

Rebecca de Oliveira Marreiros, Justus Wesseler

The role of Horizon projects for Knowledge and Innovation in the Italian bioeconomy - A Social Network Analysis

Giacomo Maria Rinaldi, Justus Wesseler, Davide Viaggi

Main institutional challenges for sustainability and residue valorization in the tropical fruit sector in the Philippines

Nymphmary Daphne Jumagdao Santiago

Challenges and Opportunities for Gene Edited Crops in Latin America

Roberto Juan Feeney

Consumer and farmer perspectives on gene editing regulations: A systematic review.

Alice Onek Atimango, Joshua Wesana, Wim Verbeke, Stephen Wamala Kalule, Hans De Steur

4:00pm

Afternoon Coffee Break

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Location: **Oscar Niemeyer Auditorium Entrance**

4:30pm

4:30pm

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Plenary 2 - Perspectives on using intellectual property (IP) in agricultural innovation

Location: **Oscar Niemeyer Auditorium**

Session Chair: **Stuart Smyth**

6:00pm

Perspectives on using intellectual property (IP) in agricultural innovation

Chair(s): **Stuart Smyth**

Presentations

What does data tell us about agricultural innovation

Intan Livramento

IP in agriculture: global and national perspectives

Leontino Taveira Taveira

na

Lamping Matthias

na

Mildred Pitah

6:00pm

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7:00pm

ICABR General Assembly

Location: **Oscar Niemeyer Auditorium**

Session Chair: **Justus Wesseler**

Date: Thursday, 13/June/2024

8:00am -	Conference Registration Location: Oscar Niemeyer Auditorium Entrance		
8:30am -	Parallel 3a - Risk-Appropriate Regulation for Gene-Edited Technologies Location: Oscar Niemeyer Auditorium Session Chair: Graham Brookes	Parallel 3b - The Bioeconomy and Greenhouse Gas Emissions Location: Vittorio Santaniello Room Session Chair: Derek Gerald Brewin	Parallel 3c - Brazilian Agriculture: Evolution, Resilience and Opportunities Location: Robert Evenson Room Session Chair: Jose Eustaquio Ribeiro Vieira Filho
10:30am	Risk-appropriate Regulation for Gene-Edited Technologies <i>Chair(s):</i> William Kerr <i>Discussant(s):</i> Stuart Smyth, Graham Brookes, Jose Falck-Zepeda	Carbon Credit Trade – Would Dutch farmers opt for hypothetical carbon farming contracts? Steven van der Maarel, Insa Thiermann, Liesbeth Dries	Brazilian Agriculture: Evolution, Resilience and Opportunities <i>Chair(s):</i> José Eustáquio Ribeiro Vieira Filho, José García Gasqués <i>Discussant(s):</i> Zenaide Rodrigues Ferreira, Raúl Velilla Gómez
	<i>Presentations</i> Impact of regulation on innovation in the agricultural supply chain Graham Brookes	Innovations in Inoculants: Implications for Green House Gas Emissions in Canada. Derek Gerald Brewin, Jenai Buchanan	<i>Presentations</i> Productivity of Brazilian Agriculture José García Gasqués
	Meeting Global Biodiversity Framework targets and the role of gene editing Stuart Smyth	Promising New Technologies for Decarbonization Gordon Rausser, David Zilberman, Yanyou Guan, Elliot Choi	Productive Mobility and Productivity Growth in the Brazilian Agribusiness José Eustáquio Ribeiro Vieira Filho, Pedro Meiners
	Regulatory Barriers to Improved Food Security in Developing Economies Jose Falck-Zepeda	Tracking global drought damage since 1960 (tentative title) Asger Mose Wingender, Casper Worm Hansen, Leonard Krapf	Production and Sustainability in Agriculture Zenaide Rodrigues Ferreira, José Eustáquio Ribeiro Vieira Filho
		Brazilian agriculture to 2050: interactive impacts of productivity growth scenarios and environmental policies Geraldo Martha Jr., Cícero Lima, Zhan Wang, Jing Liu, Rafael Reis, Luis G. Barioni	Land Regularization in Brazil: Advances and Challenges Raúl Velilla Gómez, José Eustáquio Ribeiro Vieira Filho
		Agriculture's Contribution to State Level Renewable Energy Goals in the U.S.: Reality v Rhetoric Margaret Brennan Tonetta, David Specca, Arendt Jan Both, Amy Mandelbaum	
10:30am -	Morning Coffee Break Location: Oscar Niemeyer Auditorium Entrance		
11:00am -	Keynote Address by Carolyn Fischer Location: Oscar Niemeyer Auditorium Session Chair: David Zilberman		
12:00pm -	Plenary 3 - Incentivizing Climate Smart Practices in Agriculture: Policy Challenges and Opportunities Location: Oscar Niemeyer Auditorium		
1:30pm	Incentivizing Climate Smart Practices in Agriculture: Policy Challenges and Opportunities		

Chair(s): **Madhu Khanna**

Presenter(s): **Bruno Basso, Gal Hochman, Madhu Khanna, David Zilberman**

1:30pm

Lunch

Location: **Ravello**

2:30pm

2:30pm

4:00pm

Parallel 4a - Exploring Bioeconomy Strategies in a Global Context: Insights from the EU, the US and Latin America
Location: **Oscar Niemeyer Auditorium**

Exploring Bioeconomy Strategies in a Global Context: Insights from the EU, the US and Latin America

Chair(s): **Justus Wesseler**

Presenter(s): **Giampiero Genovese, Lucia Gardossi, George Frisvold, Keith Kline, Hugo Chavarria**

Parallel 4b - Gender and Systems of Agricultural Production
Location: **Vittorio Santaniello Room**
Session Chair: **Carl Pray**

Gender and Systems of Agricultural Production

Chair(s): **Carl Pray**

Presenter(s): **Bjorn Campenhout, Berber Kramer, Vanya Slavchevska, Cheryl Doss**

Parallel 4c - Models of Bioeconomy Supply Chains
Location: **Robert Evenson Room**
Session Chair: **Hans De Steur**

Green innovation in the transition towards sustainable and circular agri-food systems

Presenter(s): **Federico Parmiggiani, Luigi Orsi, Gianmaria Tassinari, Federico Zilia, Stefanella Stranieri, Claudio Soregaroli**

The Bioeconomy & Circular Economy in Southern Arizona: Profile, Economic Baseline, & Prospects

George Frisvold

Modeling the Profitability of Sustainable Agricultural Innovations at Global Scale.

Shahrear Roman, Prof. Dr. David Wüpper, Hadi Hadi, David Zilberman

Restructuring the food production system into a broader supply chain for a bio-based economy: The case of the banana production system in Uganda

Clare Nakimpi, Justus Wesseler, Paul Ingenbleek, Esther Gehrke, Jerome Kubiriba, Priver Bwesigye

Mobile money and vertical price transmission: Evidence for the Palm Oil Market in Cameroon

Akem Nina Fabinin, Thomas Bittmann

Estimating the Value of Public Subsidies of Water Used in Mexico Protected Agriculture Tomato Production for Export

Eliza Dexter Cohen, Marcela Jerez, de Gortari Rebeca, Hernández Pérez Juan Luis

Innovation and challenges in the global bioeconomy: a case study of Ghana's emerging pineapple value web

Franziska Anna Jäckel, Terese Venus

An Economic Model of Pre-harvest and Post-harvest Farm Losses

Frank Pijpers

**From Labs to the Public:
Scientists' Willingness to
Communicate about the Safety of
GM and CRISPR Foods**

**Yixuan Guo, Marcia Dutra de Barcellos,
Hans De Steur**

**Increasing healthy food choices
through nudges: An umbrella
review**

**Hui Lin, Marcia Dutra de Barcellos,
Hans De Steur**

**Evolution of Innovation and
Production Supply Chains: the
case of Microalgae-Based β -
Carotene**

**Ruslana R Palatnik, Gal Hochman,
David Zilberman**

4:00pm

Afternoon Coffee Break

Location: **Oscar Niemeyer Auditorium Entrance**

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4:30pm

4:30pm

Plenary Session 4 - Supply Chain and the Industrial Organization of the Bioeconomy

Location: **Oscar Niemeyer Auditorium**

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6:00pm

Supply Chain and the Industrial Organization of the Bioeconomy

Chair(s): **David Zilberman**

Presenter(s): **Jill Hobbs, Tom Reardon, Meilin Ma, Richard Sexton**

8:00pm

Gala Dinner

Location: **Ristorante Principe Compagna Ravello**

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11:00pm

Date: Friday, 14/June/2024

<p>8:00am -</p>	<p>Conference Registration Location: Oscar Niemeyer Auditorium Entrance</p>		
<p>8:30am</p>	<p>Parallel 5a - GMOs in the Bioeconomy</p>	<p>Parallel 5b - Bioeconomy Productivity in the Short- and the Long-Run</p>	<p>Parallel 5c - Bioeconomy Stakeholder Views</p>
<p>8:30am -</p>	<p>Location: Oscar Niemeyer Auditorium Entrance</p>		
<p>10:30am</p>	<p>Session Chair: Regina Birner</p>	<p>Location: Vittorio Santaniello Room Session Chair: Stuart Smyth</p>	<p>Location: Robert Evenson Room Session Chair: Carl Pray</p>
	<p>Marketing Patterns of Genetically Modified Food in The Netherlands <u>Rico Ihle</u>, Justus Wesseler</p>	<p>Agricultural productivity and resource allocation: Comparison between China, European Union and the United States <u>Haiyan Deng</u></p>	<p>Game Theory & Bioeconomy: A Literature Review <u>Kutay Cingiz</u>, Justus Wesseler</p>
	<p>Ex Ante Economic Impact Assessment of Late Blight Resistant Biotech Potato in Kenya <u>Evelyne Nyathira Kihiu</u>, Marc Ghislain, Anthony Mwangi Kibe, Nancy Ng'ang'a, Marcel Gatto, Jose B. Falck-Zepeda</p>	<p>Conservation Agriculture impacts on economic profitability and environmental performance of agroecosystems. <u>Lorenza Alexandra Lorenzetti</u></p>	<p>Comparing Self-reported and Measured Climate Shocks in Small-scale Agriculture <u>C. Leigh Anderson</u>, Peter Agamile, Joaquin Mayorga, Amaka Nnaji, Andrew Tomes, Federico Trindade, Stanley Wood</p>
	<p>A Half-Century of Genetic Engineering: Advancements and Foregone Benefits in Research on Enhancing Nitrogen Use Efficiency in Rice Qiqi Chen, <u>Yu Yvette Zhang</u>, David Zilberman</p>	<p>Who fed China? <u>Asger Mose Wingender</u>, Casper Worm Hansen</p>	<p>Gendered Language and Gender Gaps in Agricultural Technology Adoption: Understanding the Impacts Pathways and Assessing the Empirical Evidence in Ethiopia and India C. Leigh Anderson, <u>Jiayuan Wang</u>, Didier Alia, Mintewab Ayele Bezabih</p>
	<p>Market intelligence for more impactful and equitable genetic innovation: The Global Market Intelligence Platform (GloMIP) <u>Matty Demont</u></p>	<p>How to incentivize long-term investments in agricultural innovation: the need to think beyond IPR in time of crisis <u>Philipp Aerni</u>, Michael Kock</p>	<p>Trust in science and its communicators– The relationship between trust and consumer decision-making for new agri-food biotechnologies <u>Vincenzina Caputo</u>, Valerie kilders, John Besley, Paul Thompson</p>
	<p>Genetically Modified Organisms and Agricultural Productivity Robert Chambers, <u>Yu Sheng</u></p>	<p>Farmers' views on public and private incentives for carbon farming Francesco Stagni, <u>Insa Thiermann</u>, Liesbeth Dries</p>	<p>Urban and peri-urban agriculture for climate resilience in cities: A study of the government and university experience <u>Carolina da Silveira Bueno</u></p>
			<p>Identifying and exploring the stakeholder needs and requirements for innovative low ILUC biomass value chains development – EU Horizon MarginUp! Project <u>Thi Huyen Trang Dam</u>, Philipp Grundmann, Richard Orozco</p>

How Effective are Debunking Strategies? A Study of Misinformation in Food Biotechnology

Glory Esohe Orivri, Bachir Kassas, Rodolfo M. Navga Jr, House Lisa

10:30am - Morning Coffee Break
Location: **Oscar Niemeyer Auditorium Entrance**

11:00am - Keynote Address by Keith Fuglie
Location: **Oscar Niemeyer Auditorium**
Session Chair: Carl Pray

12:00pm - Plenary 5 - Agricultural Research, Technology Spillovers, and Sustainable Agricultural Growth
Location: **Oscar Niemeyer Auditorium**

Agricultural Research, Technology Spillovers, and Sustainable Agricultural Growth

Chair(s): **Carl Pray**

Presentations

Adoption of improved varieties of food crops in developing countries and their economic impact, with special reference to the CGIAR

Keith Fuglie

Trade, Technology, and Agricultural Productivity

Heitor Pellegrina

GMO impacts on global agriculture

Asger Wingender

Assessing the Impact of GMO Adoption on Agricultural TFP: A Global View

Sheng Yu

1:30pm - Lunch
Location: **Ravello**

2:30pm - Parallel 6a - Status of NGTs in the European Union
Location: **Oscar Niemeyer Auditorium**
Session Chair: **Justus Wesseler**

Parallel 6b - Bioeconomy Supply Chains and Market Structure
Location: **Vittorio Santaniello Room**
Session Chair: **Travis W Reynolds**

Parallel 6c - Technological Change and Bioeconomy Development
Location: **Robert Evenson Room**
Session Chair: **Kutay Cingiz**

Status of NGTs in the European Union

Chair(s): **Justus Wesseler**

Discussant(s): **Emilio Rodriguez-Cerezo, Justus Wesseler**

Market Structure, Innovation and Prices: The Case of Agricultural Biotechnology in US Cotton

Felipe Berrutti

Effects of supply heterogeneity in the biomass market for advanced biofuels production

Stéphanie Cetimia Mariotti Ruiz, Marcelo Marques de Magalhães, José Maria Ferreira Jardim da Silveira

Presentations

The status of the NGT EC proposal
Emilio Rodriguez-Cerezo

Price Regulation of Agricultural Technology

Felipe Berrutti, Matteo Ruzzante

Determinants of Technology Evolution of segment of biogas and its implications to Bioenergy

José Maria Ferreira Jardim Silveira, Roney Fraga Souza, Carolina Cormanich

Possible options for NGT regulation and their relative economic advantages

Justus Wesseler

Learning and Productivity: An Evolutionary Sectoral Agent-Based Model for Brazilian Agriculture

André Motta Leguisamo, Wellington Santos de Amorim, Pedro Henrique Gonçalves da Silva Napoli de Lima

Examining the Impacts of the US National Bioengineered Food Disclosure Standard

William K. Hallman, Cara L. Cuite

A Patent-Based Perspective on Circular Bioeconomy Innovations: Going Forward to the Convergence of Agriculture and Sustainability
America Padilla-Viveros, Amalia Cuno-Jaimes

Water Scarcity and Food Security in the Mediterranean: The Role of Alternative Water Sources and Precise Agriculture

Ruslana R Palatnik, Orna Raviv, Julia Sirota, Mordechai Shechter

Evaluating the impact of GMO adoption on agricultural TFP: Regression control method
Changxin Yu

Genome Editing potential in Low- and Middle-Income Countries depends upon addressing regulatory, governance, trade and economic issues – Lessons from Latin America and Africa

Jose Benjamin Falck Zepeda, Patricia Zambrano

From Hide to Prime: A Historical Perspective on Innovation and Supply Chains in the American Beef Sector

Jonathan Andrew Tillinghast, David Zilberman, James Mjelde

Exploration strategies of agricultural input incumbents: the case of biologicals.

Pablo Mac Clay, Guillermo Bort, Roberto Juan Feeney, Jorge Luis Sellare

Methane Mitigation Under Economic Uncertainties- Near to Mid Term Cost Benefit Analysis

Moran Nabriski, Colin Price, Drew Shindell

Barcelona's Municipal Food System Characterization and Analysis with with the Institutional Grammar Tool

Diego Maximiliano Macall

4:00pm

Afternoon Coffee Break

Location: **Oscar Niemeyer Auditorium Entrance**

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4:30pm

Plenary 6 - The Potential Contribution of Science to the Bioeconomy

Location: **Oscar Niemeyer Auditorium**

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6:00pm

The Potential Contribution of Science to the Bioeconomy

Chair(s): **David Zilberman**

Presenter(s): **Harris Lewin, Thomas Harmon, Bruno Basso, Madhu Khanna, Yishai Ashlag**

6:00pm

ICABR Conference Closing

Location: **Oscar Niemeyer Auditorium**

-

6:30pm

Session Chair: **Justus Wesseler**

7:00pm

ICABR Board Meeting

Location: **Hotel Bonadies**

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8:00pm

Session Chair: **Justus Wesseler**

Date: Saturday, 15/June/2024

9:30am **Post Conference Workshop**
- Location: **Hotel Bonadies**
4:00pm Session Chair: **Justus Wesseler**

Hands on Bioeconomy Measurement Workshop

Chair(s): **Kutay Cingiz**

Presenter(s): **Kutay Cingiz, Justus Wesseler, David Zilberman**