

A photograph of a large, light-colored industrial building with the letters 'IRTA' on its side. The building is situated in a field with several trees in the foreground. The scene is captured during the day with natural lighting.

IRTA

IRTA

**ANIMAL
PRODUCTION
CONFERENCE**

**CO-CREATING THE
FUTURE OF ANIMAL
PRODUCTION**

12-13 MAY, 2022

**PORTAVENTURA CONVENTION CENTER
SALOU, TARRAGONA, SPAIN**

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For European livestock farming, there are ambitious sustainability goals to be met in the near future, such as attaining a carbon-neutral Europe by 2050; halving the use of antibiotics and reducing nutrient losses by at least 50%; and, by 2030, restoring ecosystems and biodiversity, with 25% of farmland devoted to organic farming and European aquaculture production established as a world leader in sustainability and quality.

In that context, livestock farming and aquaculture need to evolve significantly to drastically reduce their negative environmental impact, while also tackling health and animal welfare issues and aiming to ensure that farmers make a fair living. Innovations must focus on the climate, better use of resources, One Health and welfare.

Well-managed livestock and aquaculture systems can also contribute to the fulfilment of the Sustainable Development Goals and, notably, to the vitality of numerous European regions. IRTA, an impact-oriented organization that generates value through its research and boosts innovation with a cross-disciplinary approach, works hand in hand with the livestock farming and aquaculture sector and the authorities. Like other socioeconomic sectors, the agri-food industry will have to deal with increasing complexity in the coming decades, and IRTA will be offering it innovations and science-based solutions.

This meeting is a reflection of IRTA's commitment to tackling new challenges and making the transition to greater sustainability in livestock farming and aquaculture, to a One Health approach and to the application of new technologies to meet consumers' demands, satisfy their needs and protect their interests.

12 - 13 MAY, 2022

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PROGRAMME

Thursday, 12 May

Animal Production Conference

8:30 h - 13:30h

Co-creating the future of animal production

8:30 h Accreditation

9:10 h Welcome

Dr Joaquim Brufau, Institutional Delegate of IRTA in Tarragona

Mr Pere Granados, Mayor of Salou

Ms Teresa Pallarès, Delegate of Government of Catalonia, in Tarragona

Mr Carmel Mòdol, Food Secretary of Government of Catalonia

Session 1

Sustainability of animal farming: animal production transition

9:30 h About the role of livestock in climate smart circular food production.

Prof. Dr. Martin Scholten



10:10 h Decision support and pathways for the sustainable transition of Catalonia's livestock sector

Dr. Ralph Rosenbaum



11:00 h Coffee - Break

11:30 h **IRTA^R** Communications



Environmental sustainability analysis for the livestock sector

11:30 h Dr. Assumpció Antón



Feed: Role of specific feed additives In livestock production environmental sustainability

11:50 h Dr. David Torrallardona

Precision feeding in dairy cows as a tool to improve efficiency and environmental impact

12:30h Dr. Marta Terré



Feed: New sources of protein in aquaculture

12:10 h Dr. Cristobal Aguilera

Circular farm management: Agrofood biomass and circular bio economy

12:50 h Dr. Belen Fernandez



13:10 h General Debate

13:45 h Lunch included (IRTA Event & IRTA Event +)

PROGRAMME

Thursday, 12 May

15:00 h - 19:00h

Animal Production Conference

Co-creating the future of animal production

Session 2

One Health in animal farming: facing the post-antibiotic era

15:00 h

Global trends in antimicrobial resistance in animals in low-and middle -income countries.

Prof. Thomas Van Boeckel



Improvement in the prudent use of antibiotics in the EU and the importance of a one health approach to fight antimicrobial resistance.

Dr. Marta Cerdà

15:40 h

16:20h

Microbial endocrinology: How evolved intersections of microbiology and neurobiology matter to animal health and nutrition. (Online)

Prof. Mark Lyte



17:00 h Coffee - Break



Intestinal inflammation in poultry, how feed components impact on intestinal health.

Prof. Mike Kogut

17:20 h

18.00 h IRTA[®] Communications



New antimicrobial molecules as alternative to antibiotics in animal production.

18:00 h Dr. Anna Aris & Dr. Elena Garcia-Fruitós

Immuno-genetics & microbiome: an opportunity to improve pigs robustness and welfare.



18:40 h Dr. Maria Ballester & Dr. Yulixis Ramayo-Caldas



A successful story: the use of functional feeds for preventing ectoparasite infections in seabream farming. In-vivo models for aquatic animal health.

18:20 h Dr. Enric Gisbert & Dr. Dolors Furones

21:00 h Gala dinner in Ferrari Land (IRTA Event +)

PROGRAMME

Friday, May 13th

9:00 h - 14:00h

Animal Production Conference

Co-creating the future of animal production

Session 3

The future of animal farming and feed manufacturing: impact of new technologies (biosystems engineering) at feed mill and at farm level, animal welfare benefits and consumer demands.

9:00 h Aptamer tools for food safety
Sr. Ciara O'Sullivan



9:40 h **IRTA[®] Communications**



How to assess animal welfare at farm level

9:40 h Dr. Antonio Velarde & Dr. Antonio Dalmau.

Implementing biosensors and other biotechnological tools in aquaculture.



10:00 h Dr. Mònica Campàs

10:20 h *Coffee - Break*

10:50 h **Process Analytics For The Feed Industry**

Sr. Andy LaFollette from FOSS Iberia

11:30 h *General Debate*

12:00 h Importance of Tarragona Port for animal husbandry, involvement in sustainability through new logistical implementation

Sr. Josep Maria Cruset. president PORT OF TARRAGONA



12:40 h Animal production, IRTA's Strategic Plan

Dr. Maria Devant, scientific coordination team of IRTA.



13:00 h **Closing talk**



ANIMAL PRODUCTION CONFERENCE

ENVISIONING FUTURE ANIMAL PRODUCTION

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