



Breeders talk **Green**

Welcome to our fourth session:

Genetic Diversity and Responsible Animal Breeding



slido

CODE: #V319



July 1st 2021 | 13:30 – 15:00 CET





Meet The Team



**Ana Granados
Chapatte**
Director



**Cagla Yuksel
Kaya Kuyululu**
Senior Project
Manager



**Mirjam
Spoelstra**
Junior Research
Officer



**Duru Eroglu v.d.
Schoor**
Junior Project Manager

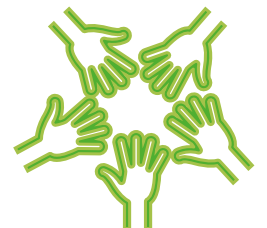


**Bárbara
Barbosa**
Policy and Office
Assistant



**Isabella
Beck Jørgensen**
Communication Officer

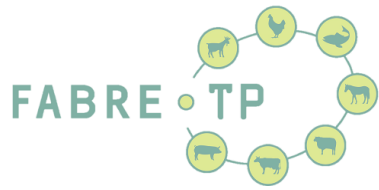
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EFFAB Members





FABRE-TP Members





European Forum of Farm Animal Breeders

Policy and legislation involved

Supporting and promoting responsible breeding
and reproduction – e.g., Code EFABAR

Responsible Research and Innovation (R&I)

Connecting industry,
knowledge institutes and policy

Mobilizing research, technological
development and innovation

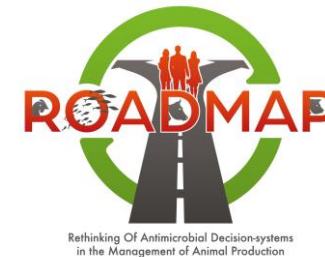
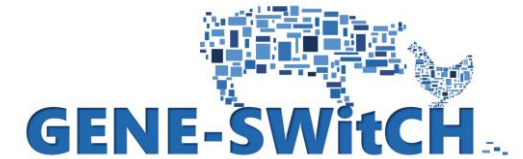
Farm Animal Breeding & Reproduction Technology Platform



Projects

EFFAB is currently involved in **EU-funded projects**

1. GenTORE (2017 – 2022)
2. AQUA – FAANG (2019 – 2023)
3. GENE- SWITCH (2019 – 2023)
4. ROADMAP (2019 – 2023)
5. PIGWEB (2021-2025)
6. RUMIGEN (2021-2026)
7. GERONIMO (2021-2026)
8. HoloRuminant (2021-2026)



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House Rules



If you have any questions to the panelist please ask in the **Q&A box**.



Report any **technical issues** through the **chat box** or send an email to: isabella.beckjorgensen@effab.info



Please note that **the webinar will be recorded and shared** on our website and social media.

A couple of days after the webinar you will receive a short report with main take outs and the presentations from today's session.



Questions & Polls



You can ask your **questions in the Q&A box**. The moderator will collect and present them at the end of the meeting.



You can also take part in polls with us via Slido



Be curious

Let us know what you think
Take part in the polls

Name: ##BreederstalkGreen - Genetic Diversity and Responsible Animal Breeding

CODE: #V319

Link: *We will share the link in the chat*



Follow the discussion online by using the hashtag [#BreederstalkGreen](#)



Balanced and responsible breeding and research



Animal Genetics as a key driver for more sustainable food production



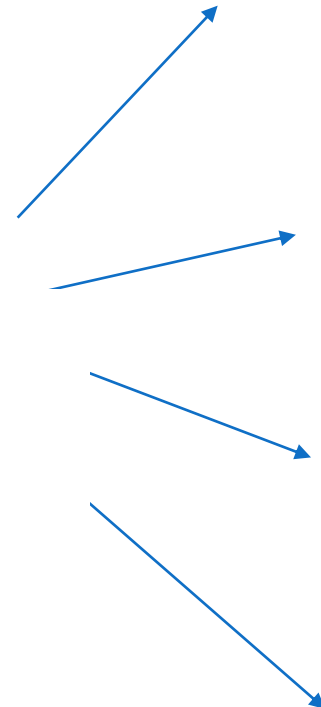
Research and innovation key driver of improving breeding



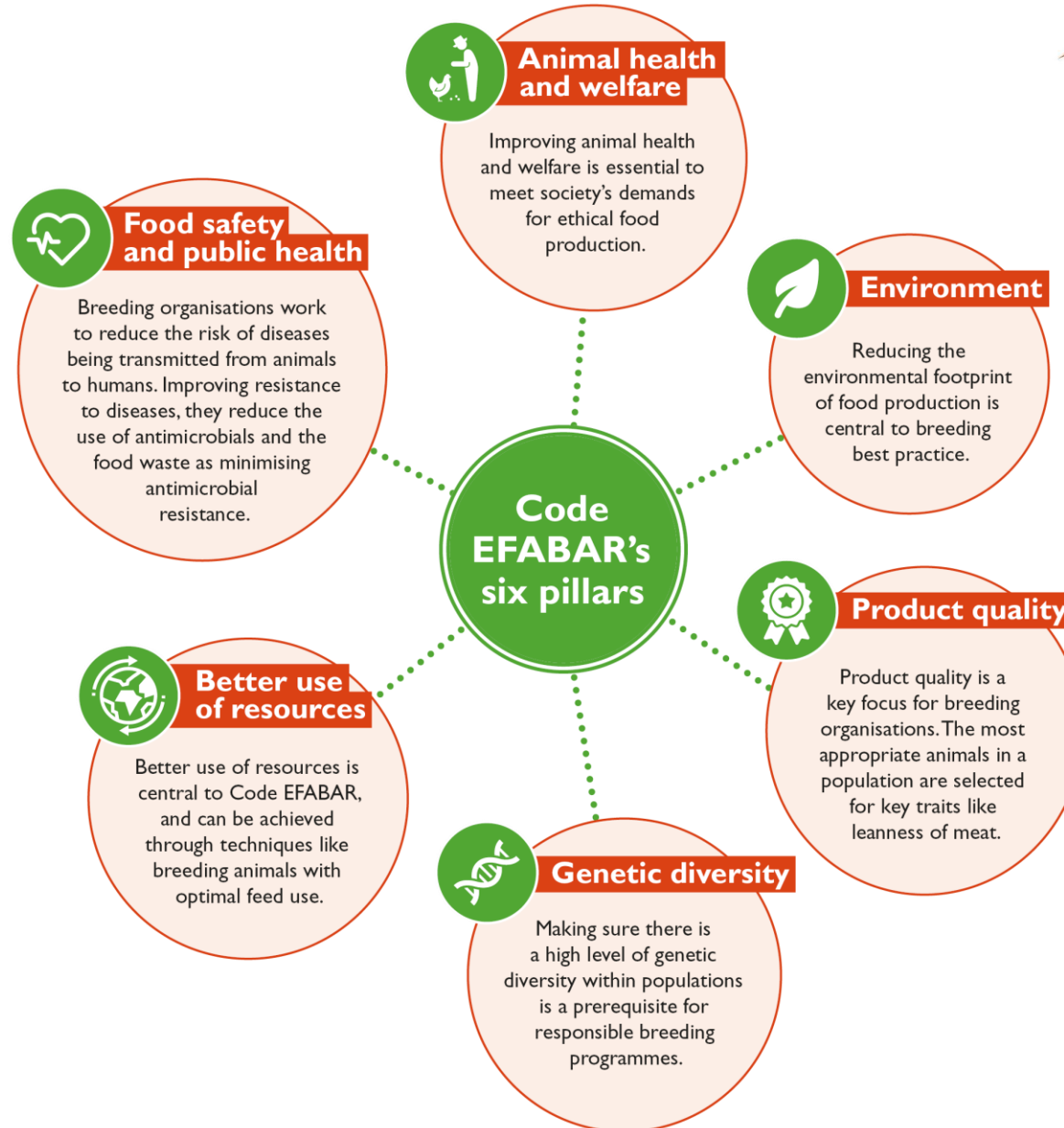
Role of TPs at the EU level in the context of Horizon EU



Blue innovation and link with terrestrial production and research



Sustainable breeding





Genetic diversity

Making sure there is a high level of genetic diversity within populations is a prerequisite for responsible breeding programmes.

Also breeding organisations are aware of the necessity to maintain genetic diversity for conservation and (future) breeding purposes.

keeping in-house breeding populations

unintentional mating between domesticated and wild animals

gene banks

rate of inbreeding

multiple secure locations to prevent loss of diversity



Programme



13:20 Connection & Home Office coffee/tea

13:30 Welcome and opening - **Ana Granados Chapatte**, *EFFAB, FABRE-TP*

13:40 Genetic Diversity in Animal Breeding - **Paul Boettcher** - *Food and Agriculture Organization of the United Nations*

- Genetic Diversity and EU Green Deal: Expectations from Farm Animal Breeders – GenResBridges Project – **Sipke J. Hiemstra** - *European Regional Focal Point for Animal Genetic Resources*
- The role of Poultry Breeders in Maintaining Genetic Diversity – **Rachel Hawken** - *COBB*
- The role of Aquaculture Breeders in Maintaining Genetic Diversity – **Pierrick Haffray** - *SYSAAF*

14:20 Panel discussion and Q&A with speakers and guest panellists: FAO Fisheries Division Senior Aquaculture Officer - **Graham Mair**, FEAGAS - **Juan María Gallardo** and SAVE foundation - **Waltraud Kugler**

14:50 **Wrap-up and Closing, Pascale Parisot** - Member of the Steering committee of EFFAB



Graham Mair,
FAO Fishers

Sipke J.
Hiemstra,
ERFP for Animal
Genetic
Resources

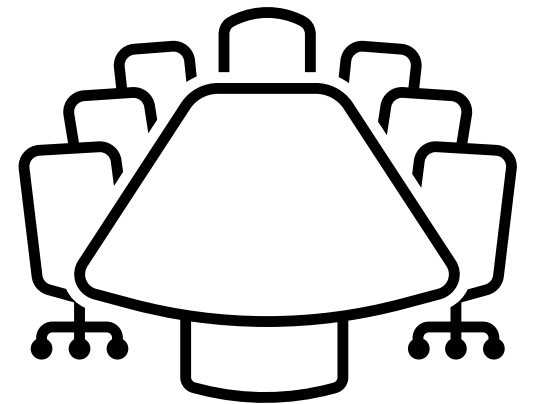
Pierrick
Haffray,
SYSAAF

Juan María
Gallardo,
FEAGAS

Panel Discussion

Waltraud Kugler,
SAVE
Foundation

Rachel
Hawken,
COBB



Genetic Diversity in Animal Breeding

Paul Boettcher

Food and Agriculture Organization of the United Nations





Paul Boettcher, Food and Agriculture Organization of the United Nations

Paul Boettcher is currently an Animal Production Officer at the Food and Agriculture Organization of the United Nations (FAO) in Rome, Italy, within the Animal Production and Health Division. He is currently outposted at the Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture at the headquarters of the International Atomic Energy Agency in Vienna, Austria. The primary activity of his work is to support countries to implement the Global Plan of Action for Animal Genetic Resources, with a particular emphasis on conservation and on application of biotechnologies. He currently serves as the Secretary of the Intergovernmental Technical Working Group for Animal Genetic Resources, within the Commission of Genetic Resources for Food and Agriculture.

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Genetic Diversity and EU Green Deal: Expectations from Farm Animal Breeders – GenResBridges Project

Sipke J. Hiemstra

European Regional Focal Point for Animal Genetic Resources





Sipke J. Hiemstra, GenResBridges Project – ERFPA Animal Genetic Resources

S. J. (Sipke Joost) Hiemstra is Director of the Centre for Genetic Resources, the Netherlands (CGN) of Wageningen University & Research. He is coordinating the Dutch national programme on genetic resources (crops, farm animals and forest species) for the Dutch Ministry of Agriculture, and has been active in research and policy networks for >20 years.

Sipke Joost is the Dutch National Coordinator for Animal Genetic Resources for the implementation of the FAO Global Plan of Action for Animal Genetic Resources. At European level, he is currently Chair of the Steering Committee of the European Regional Focal Point for Animal Genetic Resources (ERFP) that is the European network of National Coordinators and Experts.

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Question 1

Do you think the importance of the native/local breeds should increase in commercial animal breeding programs in the coming 10 years?



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The role of Poultry Breeders in Maintaining Genetic Diversity

Rachel Hawken

COBB





Rachel Hawken, COBB

Rachel Hawken, currently leads a team at Cobb-Vantress to develop genetic tools to maintain a competitive product for the broiler breeding industry. To achieve this goal this team explores genomic and statistical genetic approaches, engages innovative technologies and collaborative research. Rachel received her Ph.D. at The University of Melbourne, School of Veterinary Science. She moved to Minnesota to complete a Postdoctoral Fellow and Research Fellow positions at the School of Veterinary Science at the University of Minnesota. Rachel then returned to Australia to join the Commonwealth Science and Industrial Research Organization (CSIRO) as a Senior Research scientist, before being recruited to Cobb in Arkansas. Rachel is now the Senior Director for Genetics (Genomics and Quantitative genetics).

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The role of Aquaculture Breeders in Maintaining Genetic Diversity

Pierrick Haffray

SYSAAF





Pierrick Haffray, SYSAAF

Pierrick Haffray is managing the development of commercial breeding programs of aquaculture species in the SYSAAF professional non-profit organization since 1990. He is past member of EFFAB and FABRE Boards and is managing in SYSAAF a team of 8 geneticists and data-scientist and 2 PhD students that advise 20 breeding companies in France, overseas Territories (New Caledonia, French Polynesia) and abroad (Mexico, Mozambique, Madagascar, Thailande) having initiated breeding programs of 9 fish species , 3 molluscs and 4 shrimp species . This technical advice includes design of breeding programs, management of inbreeding, development of new phenotyping technologies (MRI, artificial vision, ultrasound, spectrometry, FCR), automated data collection and management, genomic indexation and auditing of breeding programs.

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Question 2

What are the main challenges for breeders to maintain and improve livestock and aquaculture genetic diversity?



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Q1: Do you think the importance of the native/local breeds should increase in commercial animal breeding programs in the coming 10 years?

0 9 2

Yes



Maybe



No



No comments





Graham Mair,
FAO Fishers

Sipke J.
Hiemstra,
Wageningen
University &
Research

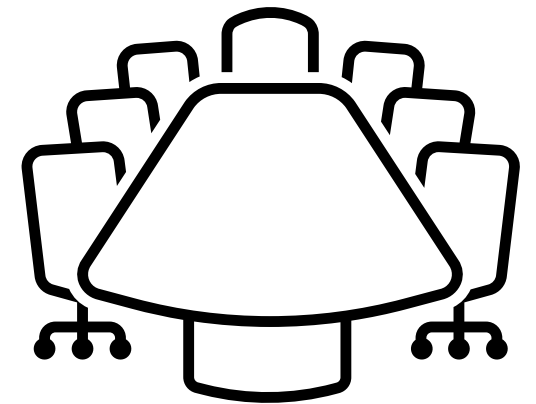
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Wrap-up and Closing



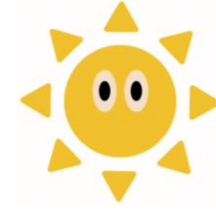
Member of the Steering committee of EFFAB



Thank you all for attending



We wish you a lovely summer holiday



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EFFAB
European Forum of
Farm Animal Breeders



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