Contribution ID: **536** Type: **Poster presentation**

Rethinking Livestock Nutrition: Regenerative Feed Systems for One Health

Tuesday, October 6, 2026 4:39 PM (1 minute)

Animal nutrition sits at the intersection of animal health, food security and ecosystem integrity, yet its role within One Health is often overlooked. The EU Horizon project Nutrifeeds applies a One Health approach to livestock nutrition by connecting research innovation and field validation.
Nutrifeeds combines targeted fermentation, insect upcycling and silvopasture and circular farm models. Targeted fermentation with consortia of non-GMO microorganisms can improve the nutritional value and the digestibility of feed ingredients. Fermented feed may promote a more eubiotic intestinal microbiota, thereby supporting gastrointestinal health. This can reduce disease susceptibility and the need for antimicrobial interventions, linking livestock nutrition to the broader challenge of antimicrobial resistance. Black soldier fly larvae can be employed to produce high quality protein out of low-value agri-food by-products, promoting circularity in the food system. After *in vitro* testing, these regenerative feed ingredients will be assessed in farm animals. The work also includes silvopasture systems, testing the effects on soil health, biodiversity and the social and economic viability.
The project will deliver practical guidelines, farmer-oriented tools and a European knowledge network to accelerate the uptake of One Health-based regenerative feed systems across Europe.

Keywords

`One Health; regenerative animal nutrition; gut microbiome; circular feed systems; antimicrobial resistance`

Registration ID

`OHS26-245`

Professional Status of the Speaker

`PhD Student`

Junior Scientist Status

`Yes, I am a Junior Scientist.`

Author: WULFES, Birte (Institute for Animal Nutrition, School of Veterinary Medicine, Freie Universität Berlin, 14195 Berlin)

Co-authors: Dr RAZMGAH, Niloofar (Institute for Animal Nutrition, School of Veterinary Medicine, Freie Universität Berlin, 14195 Berlin); Dr MARTINEZ VALLESPIN, Beatriz (Institute for Animal Nutrition, School of Veterinary Medicine, Freie Universität Berlin, 14195 Berlin); Prof. ZENTEK, Jürgen (Institute for Animal Nutrition, School of Veterinary Medicine, Freie Universität Berlin, 14195 Berlin)

Presenter: WULFES, Birte (Institute for Animal Nutrition, School of Veterinary Medicine, Freie Universität Berlin, 14195 Berlin)

Session Classification: Coffee & Poster Viewing II

Track Classification: Agriculture & Food Systems