

# *Global Conference on Sustainability in Agriculture & Food Systems*

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Abstract of the intervention:

Current legislations and intended new regulations in Ukraine covering genetically modified plants and plants modified through gene editing will be reviewed and compared to the EU regulations.

Plant biotechnology research, development and commercialization in Ukraine and EU pioneered and carried out by Ukrainian researchers and entrepreneurs will be exemplified, including the efforts based on transient, transgenic and gene editing technologies and applications of these platforms for development of novel products and processes for agriculture, food and medicine markets. Among topics to be exemplified and discussed:

Technology for transient re-programming of plants for agronomic performance including its applications in agronomy and gene editing.

Plant-based production of proteins for food and feed market including sweet proteins (sugar replacement) and antibacterial proteins bacteriocins (control of Salmonella and E. coli in food/feed): industrialization, health benefits, food safety, sustainability, small ecological footprint.

Plant-based production of proteins for medicine and veterinary, including products such as precision biologics, preventative biologics, low manufacturing costs and smaller ecological footprint.

