

PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2024, 2023.	
Name and surname, Title	Jagoba Rey
Position	Assistant Professor-Adjunkt
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	H-index: 4; Citations: 77 (by 74 documents)
Research areas (in points, min. 200 characters, max. 500 characters)	– • Animal nutrition, production and physiology • Methane mitigation strategies in ruminants • Animal welfare • Feed additives and functional ingredients (chitosan, plant bioactives, insect protein) • Sustainable livestock systems and environmental impact assessment –
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022...	– Currently implemented / submitted projects: – <i>Evaluation of the impact of Camellia sinensis tannins on methanogenesis in ruminants</i> (NCN MINIATURA 9, submitted 2025) – Principal Investigator. – Selected completed projects (newest ones): – <i>METALGEN – Genetic and nutritional strategies for reducing methane emissions in dairy cattle</i> (National R&D Program, AEI, Spain, 2021–2024) – Participant. – <i>UDAPA – Basque Dairy Cooperative for the Genetic and Productive Improvement of Local Breeds</i> (Basque Government, 2018–2021) – Participant.
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the	– Total number of publications: 5 – ORCID: 0009-0008-1535-3104 – https://orcid.org/0009-0008-1535-3104 – https://doi.org/10.1002/vms3.70389

profile); indicate selected publications (max. 5)	– https://doi.org/10.3390/ani13182861 – https://doi.org/10.3390/microorganisms8121961 – https://doi.org/10.1016/j.anifeedsci.2020.114461 – https://doi.org/10.3390/ani9080563
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	0
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	– In recent years, I have focused my research on improving the sustainability of livestock production through nutritional and microbiological approaches. I investigated the use of natural additives such as chitosan and <i>Astragalus mollissimus</i> to reduce enteric methane emissions in ruminants without compromising productivity. I also explored circular economy strategies by valorising agro-industrial by-products, including spent coffee grounds, as functional feed ingredients to improve animal performance and rumen microbiota balance. My work integrates fermentation data, microbial community analyses and animal physiology to understand how nutrition influences methane formation and efficiency. By combining in vivo trials with molecular and bioinformatic tools, I aim to develop practical, science-based solutions to reduce the environmental footprint of livestock farming.
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	– 0
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	– • I currently work at the Institute of Genetics and Animal Biotechnology of the Polish Academy of Sciences, contributing to research on animal welfare and greenhouse gas emissions in livestock. • I am involved in experimental design, data analysis, and coordination tasks within multidisciplinary research projects. • I collaborate with colleagues on publications, grant proposals, and dissemination of scientific findings related to animal welfare assessment and environmental sustainability. • I actively participate in outreach activities aimed at promoting sustainable livestock systems and science-based solutions to reduce the environmental impact of animal production.