

GROUP NAME: ANALYSIS AND EVALUATION OF FOOD SAFETY (AESA)

CODE: A06 23R



The Research Group “Analysis and Evaluation of Food Safety” (AESA) pursues the general aim of **analyzing and evaluating the risks** and the **application of advanced technologies** in the agrifood sector in order to improve food safety and quality. Its activities also include the development of ingredients, foodstuffs, and diets that are either nutritionally balanced or have a healthy functional profile. Its scientific-technological activity tackles the most currently relevant problems of food safety and nutrition. Its specific goals are subsumed under the area of Agriculture and Veterinary Sciences, focusing on three priority research lines that make up its strategic project: **“Safe, nutritional, healthy foods for the 21st century.”**

LINES OF RESEARCH

- Evaluation and control of **chemical risks** in the food chain (analysis, prevention and risk reduction due to mycotoxins; investigation of other contaminants and residues in food)
- Evaluation and control of **biological risks** in the food chain (detection and control of pathogenic and multiresistant microorganisms; transmission of antimicrobial resistance; innovative strategies for the control of food parasites)
- **Food quality, nutrition and health** (characterization of agri-food products; study of bioactive components, diets, dietary guides and health interventions)
- **Dissemination of scientific knowledge to society** (scientific dissemination to citizens and development of critical thinking)

NOTABLE PROJECTS

- Analysis and evaluation of aflatoxin risk in cocoa and derived products (AFLACACAO). PID2019-106877RA-I00. Agencia Estatal de Investigación. (01/06/2020 - 31/05/2023).
- Designing applied strategies for the meat industry to control *Listeria monocytogenes* during the elaboration of products containing pork and its derivatives. CDTI I+D de cooperación: Cárnicas Iruña, SA y Profesionales de la Carne, SL. (01/07/2021 - 31/12/2023).
- The role played in food safety by variants of *Salmonella spp.* that are resistant to antibiotics, biocidal products, and preservation methods (ARMADA). PID2021-123404NB-I00. Agencia Estatal de Investigación. Unión Europea (01/09/2022 31/08/2025)
- Sensors and Eco-friendly food-grade materials for a sustainable and smart food storage and quality monitoring (SERENADE). HORIZON-MSCA-2021-DN-01. Horizonte Europa – Marie Skłodowska-Curie Doctoral Network 2021 (01/01/2023-31/12/2026).
- Champions in Nutrition II. FCT-22-17731. FUNDACIÓN ESPAÑOLA PARA LA CIENCIA Y LA TECNOLOGÍA (FECYT). OTROS INGRESOS. (01/07/2023- 30/06/2024)

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