

CV

Alejandro Escamilla Sánchez is a professional with the rare and highly specialized dual qualification of being **both a Medical and Vet Medicine**. This unique interdisciplinary background serves as the foundation for his career as a leading researcher and academic, characterized by a deep integration of immunopathology, oncology, and translational hematology. He currently holds a strategic leadership position as the **Co-Responsible Investigator (Co-IR) of the BE21 Hematology and Immunotherapy Group** at the Biomedical Research Institute of Málaga (IBIMA-Bionand Platform). His scientific excellence is underscored by two research periods ("sexenios") recognized by ANECA and a robust bibliometric record exceeding 25 high impact peer-reviewed publications. A significant portion of his work (74%) is published in first-quartile (Q1) journals, reflecting the high impact and international relevance of his contributions to global medical science.

In his role as a leader of scientific projects, he serves as a **Principal Investigator (PI) for clinical trials (phase II)** and cutting-edge research initiatives. Notable among these is the **DRUM project**, conducted in collaboration with GSK Laboratories, which focuses on identifying resistance biomarkers in myelofibrosis to improve patient stratification and therapeutic outcomes. Additionally, he leads the **B1-2022_28 project**, utilizing multispectral immunofluorescence to analyze B-lymphocyte infiltrates in metastatic melanoma. His profile is further distinguished by its international scope, evidenced by his active participation in European networks such as the **COST Action IMMUNO-model** and his involvement in high-level H2020 projects like **PARAGONE** and **PARAVAC**, which aim to bridge the gap between basic immunology and clinical application on a continental scale.

His academic and clinical background provides a unique, "One Health" perspective to his research. Alejandro is a **Full Professor of Histology** at the University of Málaga and serves as the **Academic Vice-Secretary** of the Faculty of Medicine. His dual expertise, having received the **Extraordinary Award** and the **International SYVA Award** for his PhD in Animal Health, combined with his medical formation, allows him to lead projects that span from fundamental cellular study in animal models to direct clinical intervention in human patients. This is complemented by his technical expertise as the former coordinator of IBIMA's microscopy platform, enabling him to direct doctoral theses in hematoconology with a focus on high-precision diagnostics and innovative medical education.

Finally, his specialized research in **immunopathology** stands as a central pillar of his scientific trajectory. His work explores the complex cellular interactions within the tumor microenvironment, specifically focusing on how immune cells, such as

B-lymphocytes or tertiary lymphoid structures, influence disease progression and clinical response. By integrating advanced histopathological techniques with molecular analysis, his research seeks to decipher the mechanisms of inflammatory and neoplastic diseases, ranging from inflammatory bowel disease to complex solid tumors. This line of inquiry not only advances the fundamental understanding of immune-mediated responses but also aims to develop predictive tools for personalized medicine, ensuring that basic immunopathological discoveries are effectively translated into improved, targeted therapeutic strategies for patients.