

Biosketch Xose S Puente

Dr. Xose Puente is a Professor of Biochemistry and Molecular Biology at the University of Oviedo and the leader of the Cancer Molecular Biology Group at the Institute of Oncology (IUOPA) and he also forms part of the CIBERONC network. He completed his doctoral thesis under the supervision of Carlos López Otín, focusing on the identification and characterization of new genes encoding proteolytic enzymes expressed in human tumors. He later carried out postdoctoral research at the Scripps Research Institute (La Jolla, CA), studying the molecular mechanisms of tumor angiogenesis. He returned to the Oncology Institute at the University of Oviedo with a Ramón y Cajal contract and began a research line focused on genome analysis. Over the past 20 years, his research has centered on cancer genome analysis through the use of new sequencing techniques and the development of bioinformatics tools, contributing to the understanding of the molecular mechanisms involved in the development of various types of cancer. He has shown particular interest in chronic lymphocytic leukemia, where he has helped clarify the mutational landscape of this disease in collaboration with Dr. Elías Campo.

He is the author of more than 140 research articles published in leading journals, including *Nature*, *Nature Genetics*, *Blood*, and *Leukemia*, among others. His work has been cited over 30,000 times and he has an h-index of 65. Moreover, some of the outcomes of his research have led to the development of commercially valuable tools for genome analysis in clinical contexts, resulting in the creation of a spin-off company dedicated to genome analysis (DREAMgenics).

In addition to his research activities, Dr. Puente teaches various undergraduate and Master's courses at the University of Oviedo and contributes to the training of new researchers by supervising doctoral theses, many of which are focused on the analysis and functional validation of mutations identified in hematological tumors.