

Biography

- My scientific interests have been centered on understanding the mechanisms that control cell cycle regulation. My PhD work in the laboratory of **Mariano Barbacid** at the **Spanish National Cancer Center (CNIO)** was crucial for understanding the essential or dispensable roles of cyclin-dependent kinases in tumor development and for properly evaluating the therapeutic benefits of using specific Cdk inhibitors (*EMBO J* 2000; *PNAS USA* 2001; *Cell* 2004; *Cancer Res* 2005).
- In 2003 I joined **Robert Benezra's laboratory at Memorial Sloan Kettering Cancer Center** in New York to study if and how overactivation of the mitotic checkpoint contributes to aneuploidy and tumor development (*Cancer Cell* 2007; *PNAS USA* 2008). I found that even successful targeted therapy of a known driving oncogene might fail in the clinic as a result of the chromosomal instability present in the primary tumor (*Nature* 2010).
- From 2010 to 2015 I was an independent investigator at **EMBL-Rome**, where I continued my studies in cancer in the context of chromosomal instability using mouse models. In 2012, I secured funding from prestigious organizations such as the Howard Hughes Medical Institute (HHMI) and the European Research Council (ERC).
- In 2015, I became a **Full professor at the German Cancer Research Center (DKFZ)** to establish and coordinate the Division of "Molecular Thoracic Oncology" together with the Heidelberg University Hospital and the ThoraxKlinik-Heidelberg. During the last nine years, I have been dedicated to establishing my lab, and understanding lung adenocarcinoma progression.