

# SCIENTIFIC SEMINAR



## Guillermo Abascal

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### *Using Cryo-EM to unveil the structure and function of genome-associated complexes*

Our group is interested in studying the molecular architecture of large multi-subunit complexes involved in DNA/RNA-associated functions, with a special emphasis on the interplay between retrotransposons and host elements. Traditionally considered "junk" regions of the genome, mobile elements have recently been recognized as key players in the development and progression of several diseases, including neurological disorders and cancer. In our laboratory, we aim to address the relevance of these elements at a molecular level through biophysical, biochemical, and structural biology tools. We use a combination of state-of-the-art cryo-electron microscopy (cryo-EM), X-crystallography, and functional studies, among others, to understand the molecular determinants of retrotransposon activity and their underlying role as markers of several human pathologies.

**CIC bioGUNE**  
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**ikerbasque**  
Basque Foundation for Science

**Thursday**  
**February 13**  
**Atrio 800**  
**12.00H**

 **BRTA**  
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