Bioinformatics is a key discipline for understanding the cancer genome and for the future of cancer therapeutics. Bioinformatics-based approaches have the ability to transform the vast amount of biological data into comprehensive models that provide a deep understanding of cancer disease and the complex genotype-phenotype relationships needed to identify molecular cancer-driving alterations and novel therapeutic targets.

The CNIO Bioinformatics Unit (BU) has several objectives: (i) to develop new computational methodologies and methods, (ii) to achieve genome analysis in cancer patients’ data to identify new biomarkers and drug response mechanisms, (iii) to provide bioinformatics support with data analysis and interpretation using computational and statistical methods, and (iv) to maintain the scientific computing facilities at the CNIO and provide training in bioinformatics tools and methods.