

Introduction to cBioPortal

Tutorial for Biomedical Sciences and
Bioinformatics MSc Students

Introduction and Learning Objectives

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Learning objectives

- 1 Recognise the applications and utility of cBioPortal for cancer research
- 2 Operate and explore the cBioPortal website to identify cancer data of interest
- 3 Complete two cancer biology problem-solving tasks using cBioPortal
- 4 Recognise the process for accessing and analysing cBioPortal data

What is cBioPortal?



Public website for exploratory analysis, visualisation and download of large cancer omics datasets, with clinical metadata

Data derived from large consortia, as well as highlighted studies



Data annotated by external reference databases

Depending on the dataset, includes mutations, CNA, gene expression, methylation data *etc.*

When using cBioPortal, cite the following papers, plus the reference papers for datasets used: [Cerami *et al.* 2012](#), [Gao *et al.* 2013](#)

cBioPortal website demo

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