Introduction to cBioPortal

Tutorial for 59M/68M MSc students



Introduction and Learning Objectives

Introduction to cBioPortal



Session structure

10.00	Introduction and Learning Objectives
10.05	cBioPortal website demonstration
10.15	Problem-solving tasks
10.40	Recap and Further Resources
10.45	Accessing and using underlying cBioPortal data
10.55	Close



Learning objectives

- 1 Recognise the applications and utility of cBioPortal for cancer research
- Operate and explore the cBioPortal website to identify cancer data of interest
- Complete two cancer biology problem-solving tasks using cBioPortal
- 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.



Why use cBioPortal?



Access to the largest, publicly available cancer sequencing studies, all in one place

Explore broader relevance of laboratory/animal studies across cancer types

Hypothesis generation, including student projects

Data visualisation

Exploration of clinical data



cBioPortal website demo

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