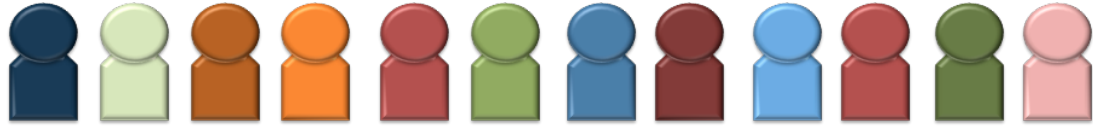


Biological Data Visualization with Gitools Interactive Heatmaps

Slides adapted from **Nuria Lopez-Bigas**
Barcelona
<http://bg.upf.edu>



(Cancer) Genomic Projects



Primary tumors

Patients cohort

Expression patterns

Somatic mutations

Copy number alterations

Structural aberrations

Epigenomic profiles

Clinical information

Omics data

Clinical data

Multidimensional Cancer Genomics data

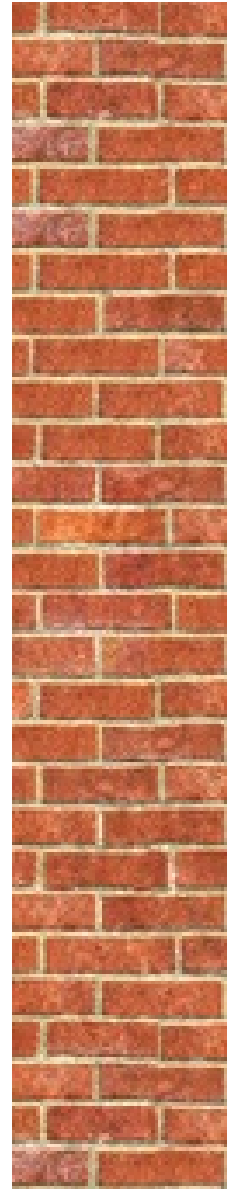


International Cancer Genome Consortium

The Cancer Genome Atlas 



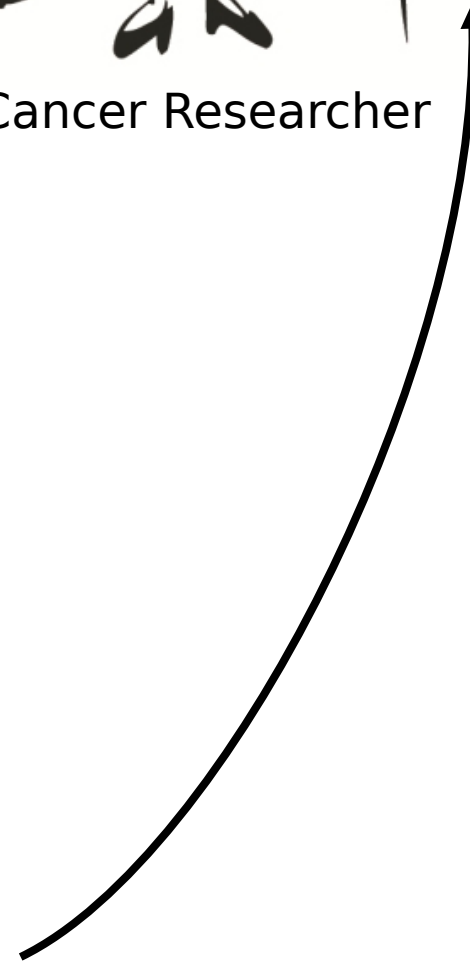
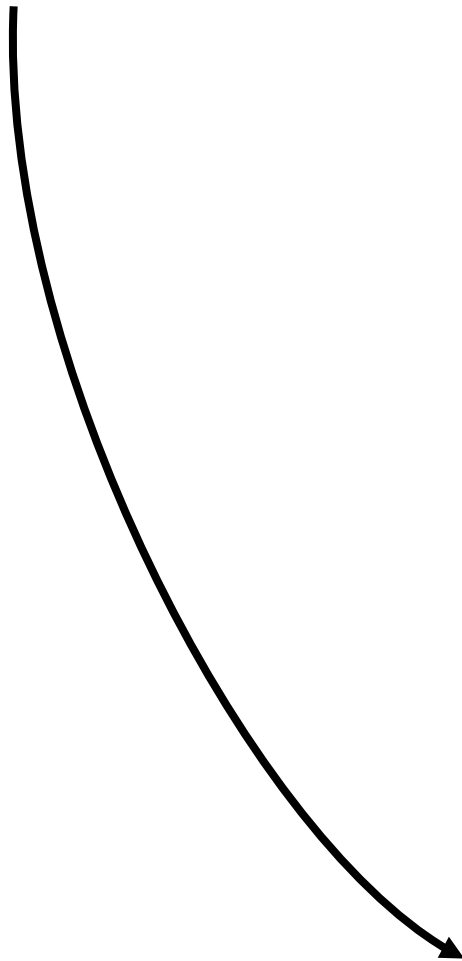
Multidimensional Cancer Genomics data



Cancer Researcher



Bioinformatician



Tools for biological data interpretation



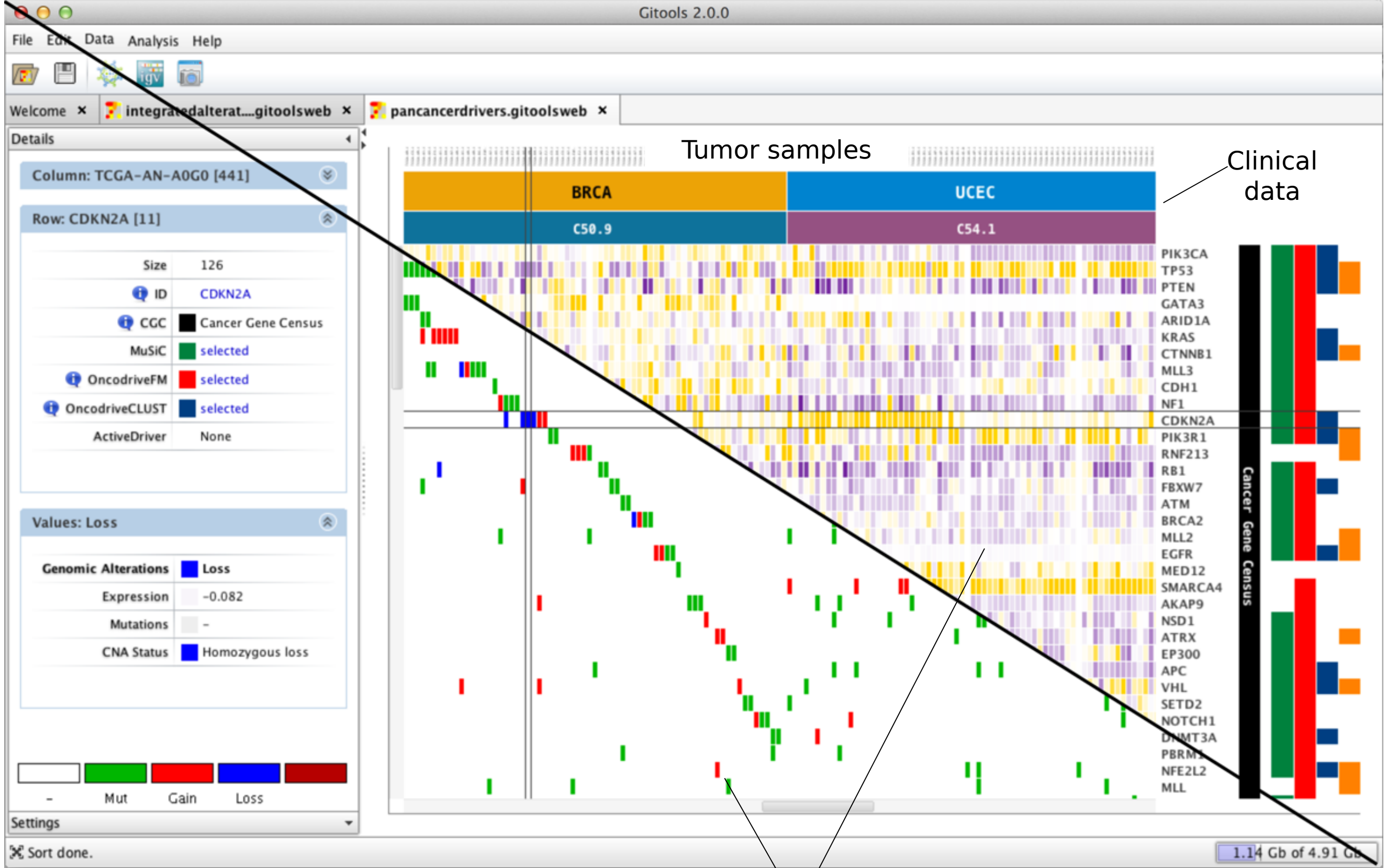
Multidimensional Cancer Genomics data






Bioinformatician

- **Effective visualization**
- **Exploration (Interactivity)**
- **Analysis possibilities**

Gitools Interactive heatmaps



Gitools Interactive heatmaps

 Mutation  CNA gain  CNA loss

Tumor samples

