

# Exploring Cancer Pharmacogenomics

## January 18-21, 2016



LEARN TO EXPLORE PHARMACOGENOMICS DATASETS  
USING CELLMINER, PATHWAY COMMONS, AND CBIOPORTAL

This “hands-on” workshop will teach participants how to integrate data, and perform simple and complex analysis within computational databases in pharmacogenomics. Focus will be on easy-to-use online tools and programmatic analysis using R language.

### January 18

- Introduction to cancer pharmacogenomics and CellMiner
- Introduction to using R for statistical analysis

### January 19

- Data analysis using the CellMiner platform
- Exploration and visualization of CellMiner data using R
- Introduction to CBioPortal and Pathway Commons

### January 20

- Online tools and R packages for pharmacogenomic dataset exploration, visualization and analysis

### January 21

- Integrative analyses using multiple datasets
- Turning analyses into interactive web applications

### January 22

- A short presentation of various Computational Bioinformatics projects conducted by Professors and students at Institute of Biomedical Sciences
- Introduction of CEFAP core facility

**Speakers:** Augustin Luna (Dana-Farber Cancer Institute, Boston, MA, USA), Fabricio Garmus Sousa (UFMS), Robson F. de Souza (ICB-USP), Arthur Gruber (ICB-USP), Elder Nakaya (FCF-USP), Adilson Kleber (ICB-USP), João Setubal (IQ-USP), Jonas Weissmann (CEFAP-USP), João Marcelo P Alves (ICB-USP).

**Who should attend:** Graduate and Post-graduate students with an interest in bioinformatics, cancer pharmacology; all computer programming knowledge levels welcomed.

For questions and registration contact [Jose Belizario \(jebeliza@usp.br\)](mailto:jebeliza@usp.br)