

The UCSC Genome browser: an hands-on workshop with Robert Kuhn

15 SETTEMBRE 2022

Ore 9.30 – 18.00

Esri Italia Theater
via Casilina 98, 00182 Roma



Robert Kuhn PhD
Associate Director Genome Browser
Professor of Molecular Genetics, University of California
at Santa Cruz, California, USA



Genomics
Institute



Genome Browser

Biography:

Robert Kuhn, earned his Ph.D. in Biochemistry and Molecular Biology at UC Santa Barbara and currently serves as the Associate Director of the Genome Browser at the University of California, Santa Cruz.

Dr. Kuhn conducts training and workshops on how to use the Browser and its associated bioinformatics tools. He has been interacting with the medical genetics community to acquire useful datasets for the Browser and to learn about how to make them more useful to the scientific community.

Scientific committee



IRCCS San Raffaele
Roma

Organizing committee



GEOSMART
ACADEMY

In collaboration with



incubatore
campano



esri Italia
THE SCIENCE OF WHERE™

The UCSC Genome browser:

an hands-on workshop with Robert Kuhn

15 SETTEMBRE 2022

Ore 9.30 – 18.00

Esri Italia Theater

via Casilina 98, 00182 Roma

Ore 9.30 - Geosmart Academy & Lightscience

Ore 9.45 - The Science of Where for topological maps, by Esri Italia

Ore 10 - 13 / 14.30 - 18.00

The UCSC Genome browser: an hands-on workshop with Robert Kuhn.

Topics for the workshop

UNIVERSITY OF CALIFORNIA
SANTA CRUZ

Genomics
Institute



Genome Browser

- **Genome Browser**
interactively visualize genomic data
- **COVID-19 Research**
use the SARS-CoV-2 genome browser and explore coronavirus datasets
- **BLAT**
rapidly align sequences to the genome
- **Table Browser**
download data from the Genome Browser database
- **Variant Annotation Integrator**
get functional effect predictions for variant calls
- **Data Integrator**
combine data sources from the Genome Browser database
- **Genome Browser in a Box (GBiB)**
run the Genome Browser on your laptop or server
- **In-Silico PCR**
rapidly align PCR primer pairs to the genome
- **LiftOver**
convert genome coordinates between assemblies
- **Track Hubs**
import and view external data tracks

Scientific committee



Organizing committee



In collaboration with

