

## CTC-RG 2024 Workshop

Moderated by David Samuelson

### Agenda:

Use case 1: Navigating the public resources for quantitative genetics, phenotypes and omics data for my research

- Introduction to the workshop and introduction to the first use case by Dr. Samuelson, *(5 minutes)*
- Resource presentations *(40 minutes total, 10-12 minutes each)*
  - RGD (Mahima VEDI; *virtual*)
  - RatGTEX (Abe Palmer)
  - ~~PhenoGen~~ (Laura Saba)
  - GeneNetwork 2 (Piotr Prins)
- Discussion and questions about use case 1 *(10 minutes)*

Use case 2: How to find a model for my disease of interest (in this case, obesity)

- Introduction to the second use case by Dr. Samuelson *(3-5 minutes)*
- Resource presentations *(40 minutes total, 10-12 minutes each)*
  - MGI (Cindy Smith; *virtual*)
  - RGD (Jennifer Smith)
  - Alliance of Genome Resources (Anne Kwitek)
  - RATTACA (Abe Palmer)
- Now that I found my model, where can I get it? *(5 minutes total)*.
  - RRRC
  - MMRRC
  - HRDP
  - JAX
  - NBRP
- Discussion and questions about use case 2; Are there any challenges in finding my model of interest, e.g. location, availability, UX or resource (e.g. search features), others? wrap up *(5-10 minutes)*

## Useful URLs:

- Rat Genome Database (RGD):
  - Home: <https://rgd.mcw.edu>
  - PhenoMiner: <https://rgd.mcw.edu/rgdweb/phenominer/ontChoices.html?species=3>
  - VCmap: <https://rgd.mcw.edu/vcmap/>
  - Variant visualizer: <https://rgd.mcw.edu/rgdweb/front/config.html?mapKey=372>
  - Rat gene report page: <https://rgd.mcw.edu/rgdweb/report/gene/main.html?id=1309952>
  - Human Gene Report page: <https://rgd.mcw.edu/rgdweb/report/gene/main.html?id=733483>
  - Jbrowse 2: <https://rgd.mcw.edu/jbrowse2/>
- Rat GTEEx: [www.RatGTEEx.org](http://www.RatGTEEx.org)
- PhenoGen: <https://phenogen.org/>
- GeneNetwork 2: <https://genenetwork.org/>
- Mouse Genome Informatics (MGI):
  - Home: <https://www.informatics.jax.org/>
  - Human-Mouse Disease Connection: <https://www.informatics.jax.org/humanDisease.shtml>
- Alliance of Genome Resources: <https://www.alliancegenome.org/>
- Rattaca: [www.ratgenes.org](http://www.ratgenes.org)
- Disease Ontology: <https://disease-ontology.org/>

## Biological Resources:

- Rat Resource & Research Center: <https://www.rrrc.us/>
- Mutant Mouse Resource & Research Center (MMRRC; Missouri): <https://mu-mmrrc.com/>
- International Mouse Strain Resource: <https://www.findmice.org/index.jsp>
- Hybrid Rat Diversity Program (HRDP): [https://rgd.mcw.edu/rgdweb/hrdp\\_panel.html](https://rgd.mcw.edu/rgdweb/hrdp_panel.html)
- Jackson Laboratory (JAX®): <https://www.jax.org/jax-mice-and-services#>
- National BioResource Project (NBRP): <https://nbrp.jp/en/resource-search-en/>