Summer of Rat Genetics and Genomics (SuRGe) Workshop 2019

*Tentative Schedule*

Friday, August 2nd

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| Time | Topic |
| 8:30 am | Introduction to quantitative genetics |
| 9:00 am | Introduction to rat genomics and rat populations |
|  | *Identifying a genomic region* |
| 9:30 am | * RGD (literature based) |
| 10:30 am | BREAK |
| 10:45 am | * GN2 (dynamic mapping including GEMMA) |
| 11:45 am | LUNCH |
|  | *Interrogating a genomic region* |
| 12:45 pm | * RGD |
| 1:45 pm | * GeneNetwork |
| 2:45 pm | BREAK |
| 3:00 pm | * PhenoGen (genome browser/eQTL) |
| 4:00 pm | * GeneWeaver |
| 5:00 pm | * Human GWAS (PGC, Enigma, UK Biobank) |
| 5:30 pm | Transport back to hotel |
| 6:30 pm | Group Dinner |

Saturday, August 3rd

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| Time | Topic |
|  | *Examining your favorite gene(s)* |
| 8:30 am | * RGD |
| 9:30 am | * PhenoGen |
| 10:30 am | BREAK |
| 10:45 am | * GeneNetwork |
| 11:45 am | LUNCH |
| 12:45 pm | * OPAR/Chilibot |
| 1:30 pm | * Allan Brain Atlas |
| 2:00 pm | * Human Translation |
| 2:30 pm | BREAK/PRESENTATION PREP |
| 4:00 pm | Student Presentation (could do groups – 15-20 minute presentation (5-6 presentations)) |
| 5:30 pm | Closing Reception |
| 6:30 pm | Transport back to hotel |

Students will be asked to be bring a gene/gene list and genomic region of interest (some examples will be made available).

Students must share what they find at the student presentations on the last day.

\*Put together an overview/conceptual figure that connects the websites that can be referred back to during training.

\*Coaches – assigned by group; could be point person for students; cross-specialties (stats, genetics, computation)

\*Advertise to NIDA U01 groups (via Amy’s monthly meeting)