Summer Rat Genetics and Genomics (SuRGe) Workshop 2019

August 2nd and 3rd

Skaggs School of Pharmacy and Pharmaceutical Science

University of Colorado Anschutz Medical Campus

12850 E. Montview Blvd.

Aurora, CO 80045

Friday, August 2nd

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| Time | Topic | Presenter |
| 8:30 am | Introduction to quantitative genetics | Rob Williams |
| 9:00 am | Introduction to rat genomics and rat populations | Laura Saba |
| 9:30 am | Introduction to dry lab notebooks | Saunak Sen |
| 10:00 am | BREAK – Coffee/pastries provided |  |
|  | *Identifying a genomic region* |  |
| 10:15 am | * RGD (literature based) | Jennifer Smith, RGD |
| 11:15 am | * GN2 (dynamic mapping including GEMMA) | Saunak Sen |
| 12:00 pm | LUNCH |  |
|  | *Interrogating a genomic region* |  |
| 1:00 pm | * RGD | Jennifer Smith, RGD |
| 2:00 pm | * GeneNetwork | Rob Williams |
| 3:00 pm | BREAK |  |
| 3:15 pm | * PhenoGen (genome browser/eQTL) | Laura Saba |
| 4:00 pm | * GeneWeaver | TBD |
| 5:00 pm | * Human GWAS (GWAS Atlas, FUMA) | Rob Williams |
| 5:30 pm | Return to hotel |  |
| 6:30 pm | Group Dinner |  |

Saturday, August 3rd

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| Time | Topic | Presenter |
|  | *Examining your favorite gene(s)* |  |
| 8:30 am | * RGD | Jennifer Smith, RGD |
| 9:30 am | * PhenoGen | Laura Saba |
| 10:30 am | BREAK – Coffee/pastries provided |  |
| 10:45 am | * GeneNetwork | Rob Williams |
| 11:45 am | LUNCH |  |
| 12:45 pm | * OPAR/Chilibot/RatsPub | Saunak Sen |
| 1:30 pm | * Allan Brain Atlas | Rob Williams |
| 2:00 pm | * Human Translation using FUMA | Rob Williams |
| 2:30 pm | BREAK/PRESENTATION PREP |  |
| 4:00 pm | Participant Presentation (could do groups – 15-20 minute presentation (5-6 presentations)) |  |
| 5:30 pm | Closing Reception |  |
| 6:30 pm | Return to hotel |  |

Students are asked to be bring:

* A laptop computer for hands-on exercises
* A gene/gene list and genomic region of interest (some examples will be made available)