

RISE STARTUP Scientific Skills Enhancement Graduate Workshop: Summer 2014

“Genomics for non-Biologists”

Workshop Leader: Dr. Christy Andrade
Email: ccandrad@nmsu.edu

Dates: July 7-11
Times: 9:00am-11:00am
Place: FH 144

Photo by Tom Ulrich <http://vectorblog.org/>



Objectives:

This 5-day workshop is designed to familiarize graduate RISE students with concepts related to human genomics, genetic disorders, and personalized medicine. The workshop will consist of mini-lectures and hands-on activities. Students will learn concepts related to the genetic code, SNPs, allelic variation, chromosomes, genotypes vs. phenotypes, and personalized medicine. Students will also learn to navigate the Online Mendelian Inheritance in Man (OMIM) database to directly explore how mutations impact specific genetic disorders and traits. Students must bring their own laptops

Format and Scheduled Activities:

For each of the 5 sessions, daily activities will include:

- Interactive mini-lectures to introduce concepts related to genomics
- Group activities for hands-on learning of genomics concepts
- Learning to navigate online genomics tools (example: OMIM)

Maximum Capacity: 16

Supported by NMSU RISE to the Postdoctorate Program (NIH NIGMS Grant # R25GM061222)
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