Biological Network Analysis

Hannah Carter

UCSD Department of Medicine

01/16/2018

Contact: hkcarter@ucsd.edu

Overview

- Day 1: Network analysis
  - Why networks?
  - Network basics
  - Examples of biological networks
  - Using networks to study biological systems

- **Day 2: Network analysis applied**
  - Exercises: Network basics
    - Creating, manipulating and analyzing networks with R
  - Introduction to Cytoscape and Ndex
    - Loading and visualizing networks

Excercises

- Jupyter Notebook
  - Another useful iGraph tutorial http://kateto.net/networks-r-igraph

- Cytoscape
  - Example with software
  - http://cytoscape-publications.tumblr.com/

- Ndex
  - http://www.ndexbio.org/#/