Title: Introduction to R Workshop

When/Where: Join us September 10, 11, 12 from 5 – 7 pm in SPH , Room \_\_(get from Nicole)\_ for a workshop on introductory R.

What: We start with fundamentals, such as setting up and using R interactively and non-interactively on the cluster, syntax and data types, creating, viewing and removing objects, on-line help, writing functions, how most statistical procedures are implemented in R, how to write optimized code including vectorization and loops, and introduction to data manipulation with dplyr, visualization with ggplot2. We apply this knowledge to simple simulation experiments.

Day 1: Setting up and using R interactively and non-interactively on the cluster, syntax and data types, creating viewing and removing objects, on-line help, writing functions, how most statistical procedures are implemented in R

Day 2: How to write optimized code, including vectorization and loops, and introduction to data manipulation with dplyr, and visualization with ggplot2

Day 3: Finally we combine our knowledge and apply it to a series of simulation problems

Each day consists of interactive R sessions with worked examples. Extra practice sheets are included.

Please bring your own computer!