

June 18, 3.30-5 PM

Methods workshop: Making sense out of complexity: data exploration and integration approaches

David Gomez-Cabrero, Karolinska Institutet

Abstract: Recent years have been especially relevant in the development of genome-wide approaches. While initially the challenges were due to analysis of smaller number of samples, the decrease in price has allowed the generation of large samples which introduces new challenges. Nowadays the data sets available are becoming very rich and complex as they also incorporate different types of data in relation to the question that is addressed. This integrated approach has clear advantages but also makes obvious the necessity to develop proper analytical tools. During this session we will *explore and hint* on ideas that cover from data visualization to network analysis. Finally a work-shop session will allow the participants to have a hands-on experience on a very specific topic.

Workshop Part:

Goal: To explore opportunities in data integration

Material: From June 1st there will be material available for the workshop at www.ibec2012.org. This material must be downloaded before the workshop. If there is any problem or if you have questions, please contact david.gomezcabrero@ki.se BEFORE June 12.

Prerequisites:

1. Every one to bring her/his own laptop (fully charged).
2. Pre-installation of R and Rstudio (see <http://www.r-project.org/>, <http://rstudio.org/>)
3. No advance knowledge of R is required, but to follow an initial tutorial will be of help