

# **Analyzing DNA Microarray Data Using Bioconductor**

**Sandrine Dudoit and Robert Gentleman**

**Fred Hutchinson Cancer Research Center  
Seattle, WA**

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# Outline

## Wednesday

- AM Introduction to Genome Biology  
Introduction to DNA Microarray Technologies
- PM Pre-processing DNA Microarray Data  
LAB: R and Bioconductor Basics

## Thursday

- AM Using Bioconductor Packages  
LAB: Using Bioconductor Packages
- PM LAB: Bioconductor Packages for Pre-processing DNA Microarray Data  
*Only one PM session*

## Friday

- AM Distances, Cluster Analysis  
LAB: Distances, Cluster Analysis
- PM Feature Selection, Classification  
LAB: Feature Selection, Classification

# References

- **Bioconductor** [www.bioconductor.org](http://www.bioconductor.org)
  - software, data, and documentation;
  - training materials from short courses;
  - mailing list.
- **R** [www.r-project.org](http://www.r-project.org)
  - software; documentation; R Newsletter.
- **Personal web pages**
  - [www.stat.berkeley.edu/~sandrine](http://www.stat.berkeley.edu/~sandrine)
  - [biosun1.harvard.edu/~rgentlem/HTML/home.html](http://biosun1.harvard.edu/~rgentlem/HTML/home.html)
  - [www.biostat.jhsph.edu/~ririzarr](http://www.biostat.jhsph.edu/~ririzarr)

articles and talks on: annotation; image analysis; normalization; identification of differentially expressed genes; cluster analysis; classification.