



## ABSTAT17

### Advanced Biostatistics for Bioinformatics Tool Users using R

#### Detailed description

<b>Mon, 10th</b>	<b>Apr</b>	<b>Day #1</b>
09:30 - 10:00	Introduction to the course and self presentation of the participants	
10:00 - 11:00	Quick review of Statistical Concepts needed in the course (prerequisites)	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	Simulation modeling methodologies	
12:30 - 14:00	Lunch Break	
14:00 - 16:00	Monte Carlo and Bootstrap methods I	
16:00 - 16:30	Tea Break	
16:30 - 18:00	Monte Carlo and Bootstrap methods II	
<b>Tue, 11th</b>	<b>Apr</b>	<b>Day #2</b>
09:30 - 10:00	Wrap-up of Day #1 (what have we learnt so far?)	
10:00 - 11:00	Principles of Bayesian methodology	
11:00 - 11:30	Coffee Break	
11:30 - 12:30	Gibbs Sampling	
12:30 - 14:00	Lunch Break	
14:00 - 16:00	Challenging Group Practical	
16:00 - 16:30	Tea Break	
16:30 - 18:00	Expectation-Maximization (EM) algorithm	
<b>Wed, 12th</b>	<b>Apr</b>	<b>Day #3</b>

09:30 - 10:00	Wrap-up of Day #2 (What have we learnt so far?)
10:00 - 11:00	Principal component analysis
11:00 - 11:30	Coffee Break
11:30 - 12:30	Principal component analysis (cont)
12:30 - 14:00	Lunch Break
14:00 - 16:00	Challenging Group Practical
16:00 - 16:30	Tea Break
16:30 - 18:00	Multiple testing issues

**Thu, 13th Apr**

**Day #4**

09:30 - 10:00	Wrap-up of Day #3 (What have we learnt so far?)
10:00 - 11:00	Project Development
11:00 - 11:30	Coffee Break
11:30 - 12:30	Research work on the projects
12:30 - 14:00	Lunch Break
14:00 - 16:00	Project presentation and discussion
16:00 - 16:30	Tea Break
16:30 - 18:00	Final wrap-up session.

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Last updated: **March 22nd 2017**