

## Day 1 - Monday 26 March 2018

<b>Time</b>	<b>Speaker</b>
	<b>Arrival &amp; Welcome</b>
14.00 – 15.30	<b>Illumina presentation</b>
15.30 – 16.30	<b>Tips and tricks on RNAseq</b> <i>Vladimir Benes</i>
16.30 - 17.00	<b>Coffee break</b>
17.00 - 18.30	<b>Tips and tricks on RNAseq</b> <i>Vladimir Benes</i>

## Day 2 - Tuesday 27 March 2018

<b>Time</b>	<b>Speaker</b>
09.00 - 11.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>
11.00 - 11.30	<b>Coffee break</b>
11.30 - 12.30	<b>Experimental design.</b> <i>Raffaele Calogero</i>
12.30 - 13.30	<b>Lunch</b>
	<b>Docker4seq/4SeqGUI overview</b>
13.30 - 15.30	<i>Raffaele Calogero</i>
	<b>Docker container: What is it?</b> <i>Marco Beccuti</i>
15.30 - 16.00	<b>Coffee Break</b>
16.00 - 17.00	<b>Counting reads using docker containers</b> <i>Raffaele Calogero</i>
17.00 - 18.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>

## Day 3 - Wednesday 28 March 2018

<b>Time</b>	<b>Speaker</b>
09.00 - 10.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>
10.00 - 11.00	<b>Differential expression analysis</b> <i>Raffaele Calogero</i>
11.00 - 11.30	<b>Coffee Break</b>
11.30 - 12.30	<b>Differential expression analysis and batch effect correction using docker containers</b> <i>Raffaele Calogero</i>
12.30 - 13.30	<b>Lunch</b>
13.30 - 14.30	<b>GO enrichment and GSEA analysis</b> <i>Raffaele Calogero</i>
14.30 - 15.30	<b>Exercises</b>

## Day 3 - Wednesday 28 March 2018

<b>Time</b>	<b>Speaker</b>
15.30 - 16:30	<b>Data visualization, data reduction and clustering</b> <i>Raffaele Calogero</i>
16.30 - 17.00	<b>Coffee Break</b>
17.00 - 18.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>

## Day 4 - Thursday 29 March 2018

<b>Time</b>	<b>Speaker</b>
09.00 -10.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>
10.00 - 11.00	<b>Isoforms/exons differential expression</b> <i>Raffaele Calogero</i>
11.00 - 11.30	<b>Coffee break</b>
11.30 - 12.30	<b>Isoforms/exons differential expression, understanding results</b> <i>Raffaele Calogero</i>
12.30 - 13.30	<b>Lunch</b>
13.30 - 14.30	<b>miRNA differential expression analysis</b> <i>Raffaele Calogero</i>
14.30 - 16.30	<b>Single cells RNaseq workflow</b> <i>Raffaele Calogero</i>
16.30 - 17.00	<b>Coffee Break</b>
17.00 - 18.00	<b>R pills theory and practice</b> <i>Marco Beccuti</i>
20.30	<b>Social Dinner</b>

## Day 5 - Friday 30 March 2018

<b>Time</b>	<b>Speaker</b>
09.00 - 11.00	<b>R &amp; bioconductor</b> <i>Marco Beccuti, Raffaele Calogero</i>
11.00 - 11.30	<b>Coffee Break</b>
11.30 - 12.30	<b>Bioconductor RNaseq workflow</b> <i>Raffaele Calogero</i>
12.30 - 13.30	<b>Lunch break</b>
13.30 - 15.00	<b>Excercises</b>
	<b>Final remarks</b>
15.30 - 17.00	<i>Raffaele Calogero, Marco Beccuti Francesca Cordero, Illumina team</i>