



## **3S Biology Summer School**

### *Program*

#### **Monday, 18 August 2008**

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8.30 - 9.15	Registration
9.15 - 10.45	<i>Sergio Ferrari</i> : <b>"Molecular Basis of Human Hematopoietic Stem Cell Differentiation and Plasticity: a Wet Biology Perspective"</b> .
10.45 - 11.15	Refreshments
11.15 - 12.45	<i>Anil Jegga</i> : <b>"Making Sense Out of Transcriptome"</b> .
12.45 - 14.00	Lunch
14.00 - 15.30	<i>Mahesan Niranjan</i> : <b>"Introduction to Probabilistic Modelling Applied to Biological Data: a Computational Biology Perspective"</b> .
15.30 - 16.00	Refreshments
16.00 - 17.30	<i>Enrico Blanzieri</i> : <b>"Introduction to Analysis of Microarray Data with an Example on Mislabelling Detection"</b> .

## Tuesday, 19 August 2008

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9.15 - 10.45	<i>Peter J. Park: "Integration of High-Troughput Biological Data".</i>
10.45 - 11.15	Refreshments
11.15 – 12.45	<i>Francesca Forner and Christian Lubner: "Mass Spectrometry-based Quantitative Proteomics for Biological and Clinical Applications".</i>
12.45 – 14.00	Lunch
14.00 – 15.30	<i>Guido Sanguinetti: "Network Inference in Systems Biology".</i>
15.30 – 16.00	Refreshments
16.00 – 18.00	Training, <i>Peter J. Park: "Introduction to R and Gene Enrichment Analysis".</i>

## Wednesday, 20 August 2008

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9.15 - 10.45	<i>Mahesan Niranjana: "The Difference between Transcriptome and Proteome Measurements".</i>
10.45 - 11.15	Refreshments
11.15 – 12.45	<i>Thomas Freeman: "An Introduction to Pathway Modelling and Network Analysis of Gene Expression Data".</i>
12.45 – 14.00	Lunch
14.00 – 16.00	Training, <i>Francesco Ferrari: "Analysis of Gene Chips with Custom Probeset Definitions".</i>
16.00 – 16.30	Refreshments
16.30 – 18.30	Training, <i>Thomas Freeman: "An Introduction to Pathway Modelling and Network Analysis of Gene Expression Data".</i>

## Thursday, 21 August 2008

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9.15 - 10.45	<i>Alfonso Jaramillo</i> : “ <b>Automatic Design Tools for Synthetic Biology</b> ”.
10.45 - 11.15	Refreshments
11.15 – 12.45	<i>Cesare Furlanello and Giuseppe Jurman</i> : “ <b>Machine Learning Methods for Predictive Proteomics</b> ”.
12.45 – 14.00	Lunch
14.00 – 16.00	Training, <i>Alfonso Jaramillo</i> : “ <b>Automatic Design Tools for Synthetic Biology</b> ”.
16.00 – 16.30	Refreshments
16.30 – 18.30	Training, <i>Samantha Riccadonna and Marco Chierici</i> : “ <b>Machine Learning Methods for Predictive Proteomics</b> ”.

## Friday, 22 August 2008

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9.15 - 10.45	<i>Guido. Sanguinetti</i> : “ <b>Extraction of Meaningful Pathways from Quantitative Proteomics</b> ”.
10.45 - 11.15	Refreshments
11.15 – 12.45	<i>Anil Jegga</i> : “ <b>Biomedical Ontologies for Integrative Functional Genomics</b> ”.
12.45	Lunch and Departure