



# High throughput methods for systems biology: transcriptomics (expression profiling and deep sequencing)

FRISYS course  
July 13<sup>th</sup> – 17<sup>th</sup>  
Freiburg, Germany  
Institute for Biology I

## Program overview



## Monday, July 13<sup>th</sup>

09:00	Welcome		Lecture hall
09:15	Lecture	<b>Arnd Brandenburg</b> , Genedata	Lecture hall
		<i>"Microarray analysis using Genedata Expressionist"</i>	
10:00	Lecture	<b>Clemens Kreutz</b> , U. Freiburg	Lecture hall
		<i>"Statistics for microarray analysis"</i>	
11:00	Lab tour	<b>Thorsten Kurz</b> , ZBSA	Core Facility Genomics
14:00	Lecture	<b>Matthias Futschik</b> , U. Algarve	Computer pool
		<i>"Fuzzy clustering for microarray analysis"</i>	
14:45	Lecture	<b>Guido Kopal</b> , Roche	Computer pool
		<i>"The Genome Sequencer FLX - Technology and Applications"</i>	
15:30	Coffee break		
16:00	Lecture	<b>Rudi Schläfli</b> , Illumina	Computer pool
		<i>"Solexa sequencing technology"</i>	
16:45	Lecture	<b>Mark Humble</b> , Combimatrix Europe	Computer pool
		<i>"Combimatrix microarray technology"</i>	

## Tuesday, July 14<sup>th</sup>

09:00	Lecture	<b>Hauke Busch</b> , U. Freiburg	Computer pool
		<i>"Gene network dynamics from microarray time series data"</i>	
09:45	Lecture	<b>Stefan Rensing</b> , U. Freiburg	Computer pool
		<i>"Experimental design considerations"</i>	
10:15	Lecture	<b>Sandra Richardt</b> , U. Freiburg	Computer pool
		<i>"Tissue culture and sample preparation"</i>	
11:00–18:00	Lab tour		GATC, Konstanz
		<b>or</b>	
14:00–16:00	Lectures		Lecture hall, Kilianstr. 5
		<i>"High-dimensional omics data in Freiburg: Experimental and statistical experts join forces"</i>	

## Wednesday, July 15<sup>th</sup>

09:00	Hands-on		Computer pool
		<i>Analysis of 454 data</i>	
14:00	Practical demo		Lab
		<i>Probe labeling and microarray hybridization</i>	

