



# **Introduction to Microarrays (Bergen), 17-18 September 2009**

Thursday 17<sup>th</sup> September 2009  
Conference room C at VilVite Center

09.00 – 09.20: Welcome - Introduction  
09.20 – 09.50: Different microarray applications  
09.50 – 10.35: Microarray technologies  
10.35 – 10.50: Break  
10.50 – 11.35: Microarray pipeline  
11.35 – 12.20: Lunch  
12.20 – 12.50: Examples of different plots (gene graphs, box plot, CA-plot, array plot etc.)  
12.50 – 13.10: Case study I: Gene expression in rat brain  
13.10 – 13.30: Case study II: DNA copy number changes (Array-CGH and SNP-analysis)  
13.30 – 13.45: Break  
13.45 – 15.15: Experimental design with practical exercise  
15.15 – 15.30: Questions

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09.00 – 10.30: Quality Control and outlier detection  
10.30 – 10.45: Break  
10.45 – 12.15: Preprocessing (filtering, normalization)  
12.15 – 13.00: Lunch  
13.00 – 15.15: Introduction to data analysis

- Differential expression
- Explorative analysis
- GeneOntology/Pathways

15.15 – 15.30: Questions

**Location:**

VilVite center at Thormøhlensgate 51

