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UNIVERSITA'  
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**Martedì 3 Luglio 2018: 9:30 – 13:00**

**Lente Didattica Aula I – Policlinico G.B. Rossi  
Piazzale L. Scuro, 10 Verona**

# ***Comprehensive Single Cell Analysis With The Chromium™ System***

## **Program**

**9.30 - 10.45** - Welcome and Introduction into 10x Genomics Single Cell Chromium Technology (Hannes Arnold, PhD - European Technical Specialist 10x Genomics)

**10.45 - 11.30** - Introduction to the Single Cell Service offered by the CPT (Prof. Massimo Delledonne, PhD - Biotechnology Department University of Verona)

**11.30 - 11.45** - Break

**11.45 - 13.00** - Demonstration of Software for single cell Data Analysis (Hannes Arnold, PhD - European Technical Specialist 10x Genomics)

**Registration to the following contact:**

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## Detailed Program

**9.30 - 10.45 - Welcome and Introduction into 10x Genomics Single Cell Chromium Technology** (Hannes Arnold, PhD - European Technical Specialist 10x Genomics)

- Introduction into the 10x GemCode™ technology for single cell (sc) analysis
- Description of the end-to-end workflow
- Examples for existing applications (scRNA, sc immune repertoire profiling, sc copy number analysis)
- Outlook into 2018: Single Cell Feature Barcoding
  - Single cell phenotyping using oligonucleotide-tagged antibodies (REAP/CITE seq)
  - Characterization of the immune repertoire using oligonucleotide-tagged epitopes
  - Single cell genome editing using oligonucleotide barcodes
- Outlook into 2018: Single cell ATAC seq

**10.45 - 11.30 - Introduction to the Single Cell Service offered by the CPT** (Prof. Massimo Delledonne, PhD - Biotechnology Department University of Verona)

**11.30 - 11.45 - Break**

**11.45 - 13.00 - Demonstration of Software for single cell Data Analysis 10xGenomics Loupe™ for sc analysis** (Hannes Arnold, PhD - European Technical Specialist 10x Genomics)

- Cell cluster generation and cell type identification
- Combined analysis of sc gene expression patterns and T cell receptor clonality

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