High Performance Bioinformatics
Cineca Roma - Sala Corsi, 13-15 December 2017

Docenti
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AGENDA

13 december
09:15       Registration
09:30 - 13:00 Introduction to Cineca Supercomputing Environment
13:00 - 14:00 Lunch
14:00 - 17:00 Hands-on session on bioinformatics data analysis through Linux and scripting comma

14 december
09:30 - 13:00 Introduction to bioinformatics modules and examples of workflow implementation
13:00 - 14:00 Lunch
14:00 - 15:30 Hands-on session on automation of an RNA-seq pipeline
15:30 - 17:00 Introduction to GPU and an example of GPU-based alignment tool

15 december
09:30 - 10:30 Introduction to parallel computing through MPI
10:30 - 13:00 MPI4py: speeding up bioinformatics analysis with MPI & Python
13:00 - 14:00 Lunch
14:00 - 17:00 Hands-on session on parallel computing with MPI: design and development of a paral
                    MPI-based aligner on big datasets