



UNIVERSITÀ DEGLI STUDI DI TORINO

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Teaching for International Courses– Visiting Professors Academic year 2017/2018

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| 2nd term |
| COURSE TITLE Biochemical and Molecular Basis of Metabolism |
| Scientific area Biochemistry, Molecular Biology |
| Department of Clinical and Biological Sciences and Oncology |
| English-taught degree course (One long cycle degree in) Medicine and Surgery |
| Language used to teach English |
| Teaching Commitment: 22 hours |
| Course summary Genome sequencing Functional genomic analysis Data organization Structure of Biological Databases |
| Learning objectives Students will acquire knowledge on how modern Genomics explores and stores both the structure of individual Human Genomes (nucleotide sequences) and the functional features of genomes in different cells and tissues from individuals (transcriptomes and epigenomes). Students will then be introduced to the structure and organization of Multinational Projects and the organization of Biological Databases storing primary or annotated information. Finally, students will obtain a basic introductory ability to interact with these databases and how to discern and select proper official information. |
| Tutorship activities |
| Lab activities Hands-on practice on database is foreseen. |
| Other activities besides the course: i.e. seminars and conferences addressed to PhD students and research fellows, dissemination conferences Two seminars for PhD students and post-doc researchers. |

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| Visiting Professor Profile The Visiting Professor should have strong background in Genomics and Bioinformatics, and demonstrated ability to deal with structural and functional genomic data. Experience in teaching to the first-level (Bachelor) students is desirable but not mandatory. Due to the fact that this is a first-year course, fluent and correct English-speaking is required: therefore, the Visiting Professor applicant will demonstrate at least five-years work experience in a English-based university or Research Centre, ideally in a English-speaking Country. |
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Contact person at the Department

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