

**TITLE:**

**PRACTICAL COURSE IN BIOINFORMATICS**

**PROGRAM:**

<b>Theory</b>	<b>practice</b>
Introduction to Bioinformatics and Introduction to the Main Biological Databases	set up laptops, use of tools online
Database and Pairwise Sequence Alignment	searching in database
Basic Local Alignment Search Tool (BLAST)	Blast practice
Advanced BLAST	use of the advanced tools inside BLAST
Multiple Sequence Alignment	use of tools for alignment on line and local
Molecular Phylogeny and Evolution	use of tools for tree construction
DNA Analysis: Microarrays and Next Generation Sequencing	use of tools for assembling and annotating the genomes
RNA Analysis: Microarrays and Next Generation Sequencing	use of tools for RNA-seq
Proteomics and protein structure	

**TIMING:**

November 4 – 8, 2019

**ORGANIZER AND PLACE:**

Mother Theresa University, Skopje

**LECTURER:**

Massimo Deligios, PhD

Postdoctoral Fellow

Department of Biomedical Sciences

Experimental and Clinical Microbiology

University of Sassari, Italy