

## SHORT CURRICULUM VITAE

**TREMOULIS DIMITRIOS-CHRISTOS, BIOLOGIST, MSc**

### PERSONAL INFORMATION

Name: Tremoulis Dimitrios-Christos

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### EDUCATION

#### Bachelor's Degree (BSc)

Degree in Biology, Biology Department, Natural Science School, University of Patras.

Grade: Degree with honours (8.56/10)

#### Master's Degree (MSc)

Master's Degree, Bioinformatics-Computational Biology Postgraduate Programme, Department of Biology, School of Natural Sciences, National and Kapodistrian University of Athens. Degree with honours (8.71/10)

#### Doctoral Degree (PhD)

PhD candidate. Title: "Transposable elements in cancer and its microenvironment", Medical School, National and Kapodistrian University of Athens

### FOREIGN LANGUAGES

English C2

### EDUCATION THROUGH RESEARCH

**Bachelor thesis** with title "Study of the effects of rh-TSH to the proliferation of normal and cancer thyroid cells which overexpress the TSH receptor". Supervisor: Prof. Katsoris Panagiotis

**Master's thesis** with title "Bioinformatic analysis of pathogen-host interactions in viral infections using Next Generation Sequencing Technologies (NGS - RNAseq)". Supervisor: Dr Timokratis Karamitros

### SKILLS

#### Laboratory techniques

Nucleic acid extraction, PCR, rtPCR, Agarose Electrophoresis, PAGE and Western analysis, viability assay through crystal violet staining, cell infection with lenti-viruses

#### Bioinformatics skills

Programming languages: R, bash, Python, C, Perl.  
Differential expression analysis in RNA-seq: Quality Control, filtering and normalization of reads (FASTQC, bbdut), read alignment to reference sequences (STAR, bowtie2, BWA), read counting (htseq-count, featureCounts), differential expression analysis (DESeq2, edgeR), GO enrichment analysis. (ClusterProfiler), visualization (ggplot2, pheatmap).  
scRNA-seq analyses: Cell Quality Control, clustering, cell type annotation, differential expression analysis, trajectory analysis (seurat, singleR, monocle3)