

Roberto Preste

Personal information



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Sex: M | Date of birth: 02/01/1991 | Nationality: Italian

Publications

*Calabrese FM, Balacco DL, **Preste R**, Diroma MA, Forino R, Ventura M, Attimonelli M - NumtS colonization in mammalian genomes - Sci Rep, 2017 (doi: [10.1038/s41598-017-16750-2](https://doi.org/10.1038/s41598-017-16750-2))*

*Clima R, **Preste R**, Calabrese C, Diroma MA, Santorsola M, Scioscia G, Simone D, Shen L, Gasparre G, Attimonelli M - HmtDB 2016: data update, a better performing query system and human mitochondrial DNA haplogroup predictor - Nucleic Acid Res, 2017 (doi: [10.1093/nar/gkw1066](https://doi.org/10.1093/nar/gkw1066))*

Work experience

April 2017 - Ongoing

PhD Student

PhD in Functional and Applied Genomics and Proteomics, Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro", Bari, Italy

- Study and development of Big Data analysis protocols for biological data
 - Development of the Human Mitochondrial Database (<http://www.hmtddb.uniba.it>) for Big Data compliance
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October 2016 - Ongoing

Bioinformatician and Web developer

BROWSer - Bioinformatics Resource for Omics-Wide Services, Spin-off of the University of Bari "Aldo Moro", Bari, Italy

- Development of a pipeline to analyse Whole Exome Sequencing data
 - Design and development of the BROWSer website (<http://browser-bioinf.com>)
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March - September 2016

Web developer

ELIXIR Hub, Wellcome Trust Genome Campus, Hinxton, Cambridge, UK

- Management of the ELIXIR intranet
 - Design and production of the Bioschemas website (<http://bioschemas.org>)
 - Active collaboration with the Bioschemas development community
 - Design and production of a registry and validation portal on Bioschemas data
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November 2015 - March 2016

Post-graduate internship

Department of Pathological Anatomy, Policlinico "Le Scotte", Siena, Italy

- Active collaboration in a research project to study and characterise post-translational modifications in Rb-related proteins in mesotelioma cell lines

- Management of cell cultures and performing of cytotoxicity assays on human cell lines
 - Protein extraction and Western Blot assays
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January - July 2015

Didactic - integrative Tutor

Labo-Biotech, Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro", Bari, Italy

- Educational counselling and management of a series of seminars for students of "Medical and Pharmaceutical Biotechnologies" and "Processes and Products Innovation Biotechnologies" courses
 - Management of a remedial course in Applied Physics
 - Management of the Faculty website (<http://www.biotec.uniba.it>)
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November 2014 - July 2015

University internship (MSc)

Bioinformatics lab (supervisor: Prof. Attimonelli M.), Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro", Bari, Italy

- Automated updating of a human mitochondrial genomes' database (<http://hmtdb.uniba.it>)
 - Implementation and optimization of several scripts for bioinformatics analysis
 - Creation of an automated pipeline for searching RNA editing events in human mitochondrial genomes
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March - June 2013

University internship (BSc)

Organic Chemistry lab (supervisor: Prof. Farinola G.), Department of Chemistry, University of Bari "Aldo Moro", Bari, Italy

- Culture, purification and functionalization of diatoms' frustule through organosilanes chemistry
 - Purity analysis of compounds using FTIR
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Education and training

2013 - 2015

Master's Degree in Cellular and Molecular Biology (LM-6)

Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro", Bari, Italy

Final mark: 110/110

Thesis in Bioinformatics and Comparative Genomics (supervisor: Prof. Attimonelli M.): "Automated characterization and annotation of nucleotide variants in human mitochondrial DNA and RNA"

2009 - 2013

Bachelor's Degree in Medical and Pharmaceutical Biotechnologies (L-2)

Department of Biosciences, Biotechnologies and Biopharmaceutics, University of Bari "Aldo Moro", Bari, Italy

Final mark: 103/110

Thesis in Organic Chemistry (supervisor: Prof. Farinola G.): "Functionalization of nanostructured biosilica"

2004 - 2009

High school Diploma (scientific - biologic studies)

Liceo Scientifico - Biologico, I.T.A.S. Principess Maria Pia, Taranto, Italy

Final mark: 87/100

Personal skills

Communication skills

Good communication and integration skills, mainly developed during my tutoring activities in University, since constant student-tutor as well as tutor-administrators interactions were needed; I further improved these skills during my work at ELIXIR, in which I had to periodically present the

goals I had achieved and the tasks I was going to tackle for an ongoing project.

Organizational and managerial skills

Great skills in job organization and distribution of tasks, gained during my work at ELIXIR and University internships, in which it was required to work on a specific project analyzing one particular side of it, though cooperating and sharing findings with the whole working group.

Job-related skills

Great knowledge of bioinformatics tools to analyse and characterise biological sequences; great propensity to create new tools and problem-based computational resources.

Great knowledge of web development and various web programming frameworks and Content Management Systems.

Good knowledge of nucleic acids extraction, purification and sequencing protocols from biologic samples.

Computer skills

- Great knowledge of the main packages for bioinformatics data analysis, both web-based and stand-alone
- Great knowledge of Python and Shell programming languages
- Great knowledge of HTML, CSS, JavaScript, Wordpress and Drupal CMS and of web development in general
- Great knowledge of the MS Office suite, OSs (especially UNIX-based ones) and web navigation

I have, and always had, a great passion for IT in general, besides bioinformatics, and I'm very interested in learning new programming languages and data analysis protocols.