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Date of birth: 30/03/1994

Nationality: Italian

WORK EXPERIENCE

PhD Student in Applied Life and Health Sciences

University of Verona, Department of Neurosciences, Biomedicine and Movement Sciences - Biology and Genetics Section

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- 10/2019 - 12/2022**
- Project of Excellence: Analysis of the 16S rRNA gene of the gut microbiota in case-control groups.
 - Explore and characterize the species diversity of the oral microbiome in a group of healthy individuals.
 - Catalog of bacterial species residing in the human oral cavity.
 - Genome wide association studies in a large cohorts of individuals, focusing on the HLA-C gene and its association with complex traits.

Internship Student

University of Verona, Department of Neurosciences, Biomedicine and Movement Sciences - Biology and Genetics Section

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- 11/2018 - 07/2019**
- Use of bioinformatics tools to analyze HLA-C gene and its alleles. Performing phylogenetic analysis and decision-tree learning, focusing on allele feature of stability and instability.
 - Development of classification methods able to identify HLA-C serotypes and exome genotyping using programming language.

Internship Student

University of Verona, Department Biotechnology

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- 10/2016 - 03/2017**
- Modeling and structural analysis of oxytocin receptor.
 - Ligand characterization and prediction of a protein binding site.
 - Use of computational methods to study ligand-receptor intramolecular interactions.

TUTORING

Co-supervisor of master's thesis

University of Verona, Department of Neurosciences, Biomedicine and Movement Sciences - Biology and Genetics Section

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- 07/2021 - 10/2021**
- Tutor activity and co-supervisor.
Thesis: "16S gene taxonomic catalog of oral microbiota in periodontitis: a bioinformatic study of data samples from public repositories"

Didactic Tutor

University of Verona, Department of Medicine

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- 02/2021 - 09/2021**
- Genetics Laboratory: teaching activity

EDUCATION

Master's Degree

University of Verona, Department Biotechnology

10/2017 - 07/2019 Master's Degree in Molecular and Medical Biotechnology
106/110
Thesis: Genetic variability of the HLA-C gene and classification methods to study haplotype association in human complex traits

Bachelor's Degree

University of Verona, Department Informatics

10/2013 - 03/2017 Bachelor's Degree in Bioinformatics
85/110
Thesis: Interaction of oxytocin with its cognate receptor: insight from computational biology

Scientific High School

Galileo Galilei High School, Verona

09/2008 - 07/2013 Scientific high school diploma

LANGUAGES

- Italian: Mother Tongue
- English: Intermediate

ACQUIRED SKILLS

- Operating systems: Windows, Ubuntu, IOS, macOS
- Programming languages: Java, bash, R, python
- Computational Biology
- Computational Genomics
- GWAS
- Decision-tree learning
- BLAST
- Clustal Omega
- Phylogeny
- Microbiome analysis
- Amplicon analysis
- DADA2 R package
- QIIME2

SOFT SKILLS

- **Management:** Managing several junior figures, entrusting tasks and activities, verifying their execution, understanding strengths and limitations, and refocusing objectives. Motivating moments of discouragement, and helping achieve goals.
- **Problem solving:** Ability to identify the causes of a problem and solve it.
- **Organization skills and Teamwork:** Great organizational skills of collaboration and teamwork developed and improved through five years of study at University of Verona.
- **Artistic Skills:** Passion for music, in particular for dance and piano with courses held for ten years, with relative certificates of participation and two scholarship.

POSTER SESSIONS AND ABSTRACTS

1. Stefani C., Sangalli A., **Locatelli E.**, Federico T., Malerba G., Romanelli MG., Argañaraz GA., Bosco da Silva CM., da Silva Duarte AJ., Casseb J., Argañaraz ER., Ruggiero A., Zipeto D. - Increased prevalence of HLA-C unstable variants in HIV-1 rapid progressor patients. XVI congresso FISV, 14/09/2022 - 16/09/2022, Napoli.
2. **Locatelli E.**, Treccani M., Patuzzo C., Veschetti L., De Tomi E., Dagnogo D., Gallinaro M., Stefani C., Zipeto D., Tamburin S., Malerba G. - Testing the performance of the imputation of MHC region in large datasets when using different reference panels. XXV congresso nazionale SIGU, 7/09/2022 - 9/09/2022 Trieste.
3. **Locatelli E.**, Luciano U., De Santis D., Patuzzo C., Malerba G. - 16S rRNA gene amplicons and taxonomic classification of oral microbiome. Bioinformatics Italian Society, BITS 2022, 27/06/2022 - 29/06/2022, Verona. <http://hdl.handle.net/11562/1070214>
4. Treccani M., Veschetti L., **Locatelli E.**, De Tomi E., Leoni B., Gallinaro M., Dagnogo D., Moron Dalla Tor L., Patuzzo C., Malerba G. - Pocket-sized genomics and transcriptomics analyses: a look at the newborn BioVRPi project. F1000RESEARCH. 23/11/2021. <https://doi.org/10.7490/f1000research.1118855.1>
5. **Locatelli E.**, Moron Dalla Tor L., Treccani M., Veschetti L., De Tomi E., Stefani C., Tamburin S., Zipeto D., Trabetti E., Patuzzo C., Malerba G. - Dissection of HLA-C gene region to investigate its association with complex traits. Eurac Research (Bz), Summer School: Genetic Epidemiology of Kidney Function and Chronic Kidney Disease, 12/07/2021 - 16/07/2021. <http://hdl.handle.net/11562/1055396>
6. Stefani Chiara., Sangalli A., **Locatelli E.**, Argañaraz ER., Argañaraz GA., Bosco da Silva CM., da Silva Duarte AJ., Casseb J., Romanelli MG., Zipeto D. - HLA-C stability and AIDS progression - SIBBM-Frontiers in metabolic research. 7/06/2021 - 10/06/2021. <http://hdl.handle.net/11562/1054141>
7. **Locatelli E.**, Patuzzo C., Moron Dalla Tor L., Veschetti L., Mori A., Trabetti E., Zipeto D., Malerba G. - Studiare la regione HLA negli esomi. XXII congresso nazionale SIGU, 13/11/2019 - 16/11/2019, Rome. <http://hdl.handle.net/11562/1009970>

PUBLICATIONS

1. Stefani C., Sangalli A., **Locatelli E.**, Federico T., Malerba G., Romanelli, M.G., Argañaraz G.A., Da Silva B.C.M., Da Silva A.J.D., Casseb J., Argañaraz E.R., Ruggiero A., Zipeto D. - Increased Prevalence of Unstable HLA-C Variants in HIV-1 Rapid-Progressor Patients. Int. J. Mol. Sci. 2022, 23, 14852. <https://doi.org/10.3390/ijms232314852>
2. Picelli A., Filippetti M., Del Piccolo L., Schena F., Chelazzi L., Della Libera C., Donadelli M., Donisi V., Fabene P.F., Fochi S., Fonte C., Gandolfi M., Gomez-Lira M., **Locatelli E.**, Malerba G., Mariotto S., Milanese C., Patuzzo C., Romanelli M.G., Sbarbati A., Tamburin S., Venturelli M., Zamparo P., Carcereri de Prati A., Butturini E., Varalta V., Smania N. - Rehabilitation and Biomarkers of Stroke Recovery: Study Protocol for a Randomized Controlled Trial. Frontiers in Neurology. 2021. doi: 10.3389/fneur.2020.618200