



TOBIA FANTONI

Date of birth: January 13, 1996, Mantua (MN), Italy

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EDUCATION AND TRAINING

PhD in Applied Life and Health Sciences – XXXVI cycle (A.Y. 2020)

University of Verona (Italy)

MASTERS' DEGREE – A. Y. 2019/2020

Molecular and Medical Biotechnologies

University of Verona (Italy)

Training at Experimental Hematology unit, San Raffaele Hospital, Milan (Italy)

October 2019 – October 2020

Thesis Title: Genetic Knockout of PDCD1 and ENTPD1 genes in primary T lymphocytes using the CRISPR/Cas9 system

Coordinator: Prof. Vincenzo Corbo

Co-advisor/Project coordinator: Prof. Chiara Bonini

ACQUIRED SKILLS: PBMCs isolation with Ficoll, isolation of tumor-infiltrating lymphocytes, cell cultures, mixed lymphocytes cultures, flow cytometry, flow cytometry data analysis with FlowJo, nucleofection, RNA extraction from primary cell culture, CRISPR/Cas9 on primary cell lines, primary cell lines transduction, immortalized cell lines transduction.

- Participation to the conference of the Department of Immunology, Transplantation and Infectious Diseases (DITID) in San Raffaele Hospital, Milan

BACHELOR DEGREE– A. Y. 2017/2018

Medical Biotechnology

University of Verona (Italy)

Training at Molecular Biology unit, Biology and genetics, Department of Neurosciences, Biomedicine and Movement sciences, University of Verona (Italy)

October 2017 – June 2018

Thesis title: Use of CRISPR/CAS9 system to develop model cell lines, defective of HLA-C gene

Project coordinator: Prof. Zipeto Donato

Examiners: Prof. Perduca Massimiliano, Prof. Gibellini Davide

ACQUIRED SKILLS: gene cloning, bacterial cultures, prokaryotic cells transformation, cell cultures, transfection, nucleofection, CRISPR/Cas9 on immortalized cell lines, DNA extraction from cell cultures and tissues, protein extraction from cell cultures, Western blot, PCR, cell transduction, viral titration, luciferase gene reporter assay.

HIGH SCHOOL INSTRUCTION– A. Y. 2013/2014

Classical at Liceo Classico Spagnoli, Mantua (Italy)

PERSONAL SKILLS

Mother tongue: Italian

Other languages:

English (understanding, writing and speaking)

B2 Level