

Cristina Favaron



Date and place of birth: Torino, 05/05/1994

Nationality: Italian

Work Address: Laboratory of Cell Biology and Neurobiology,
University of Pavia - Via Ferrata 9, 27100 (PV)

Phone: 0382 986420 - +39 3917990960

E-mail: cristina.favaron01@universitadipavia.it

Professional Experiences and Education

01/10/2020 - In progress

PhD student in Genetics, Cellular and Molecular Biology, XXXVI cycle; Laboratory of Cell Biology and Neurobiology, Department of Biology and Biotechnology, University of Pavia; Project title: "Cellular and molecular studies in *in vitro* and *post-mortem* models for the investigation of new targets in malignant pleural mesothelioma". Supervisor: Prof. Maria Grazia Bottone

01/11/2018 - 30/09/2020

Research Fellowship - Department of Molecular Medicine, University of Pavia; Title: "Mutational landscape and genotype/phenotype relationships in myeloproliferative neoplasms"; scientific supervisors: Prof. Luca Malcovati, Prof. Elisa Rumi

November 2019

Qualified as Professional Biologist (section A), University of Pavia

27/09/2018

Master's Degree in "Molecular biology and Genetics"; University of Pavia; Teaching language: English; Thesis title: "Molecular characterization of driver and somatic sub clonal variants in patients with myeloproliferative neoplasms"; Scientific Supervisors: Prof. Ornella Semino, Dr. Daniela Pietra; Grade: 110/110 cum laude

November 2016 - September 2018

Master's degree internship in "Molecular Biology and genetics"; Laboratory of Molecular diagnostic - Division of Hematology, Fondazione IRCCS Policlinico San Matteo di Pavia. Research activity: molecular characterization of somatic variants in patients diagnosed with myeloproliferative neoplasms

25/07/2016

Bachelor Degree in Molecular Biotechnology, University of Pavia; Teaching language: Italian; Thesis title: "Metagenomics analysis for the characterization of fungal communities in soil" Scientific supervisors: Prof. Enrica Capelli, Dr. Simona Panelli; Grade: 110/110

October 2015 - July 2016

Bachelor's degree internship in "Molecular Biotechnology"; Laboratory of Immunology and genetics analysis, University of Pavia; Scientific supervisors: Prof. Enrica Capelli, Dr. Simona Panelli

2013

Scientific High school diploma; High school "A.Sobrero", Casale M.to (AL); grade: 88/100

Research Activity

01/11/2020- in progress

The PhD project focused on malignant pleural mesothelioma and the biological response to asbestos. In particular, the project aimed to define the cellular mechanisms involved in the pathology development and to identify new potential therapeutic targets through the study of the impaired iron metabolism and ferroptosis in *post-mortem* and in *in vitro* models, using immunohistochemical approaches.

01/11/2018 - 30/09/2020

The research fellowship in this period was part of a study "Actionable targets in clonal progression and systemic spreading of myeloid neoplasms - Metastatic disease: a key unmet need in oncology". Our research activity focused on the characterization of genetic variants in myeloproliferative neoplasms in order to define new diagnostic and therapeutic approaches and investigate the clinical, phenotypic and genetic correlation in these patients, through conventional and Next-Generation Sequencing (Illumina Platform) approaches. All the experimental procedures were performed in the Laboratory of Molecular diagnostic - Division of Hematology, Fondazione IRCCS Policlinico San Matteo di Pavia.

2016-2018

During the internship for the experimental thesis preparation in the Laboratory of hematology, onco-haematology department, IRCCS San Matteo di Pavia; Scientific Supervisors: Prof. Luca Arcaini, Prof. Mario Cazzola, Dr. Daniela Pietra, the research activity of our group focused on the myeloproliferative neoplasms, hematological disorders due to clonal expansion of a mutated hematopoietic stem cells. In particular, we aimed to define a molecular characterization of driver and somatic subclonal variants in patients with myeloproliferative neoplasms to define their roles in the pathogenesis, diagnosis and prognosis of these disorders.

2015-2016

During this period of internship for the experimental thesis preparation in Biotechnology, under the supervision of Professor Capelli in Immunology laboratory of the Department of Natural Science of the University of Pavia, my study were focused on the analysis of the interaction between the fungal communities in soil and agricultural product in order to understand the relationship among soil biodiversity and environmental and plants health.

Skills and interests

Biology-related skills: Isolation of cellular components of peripheral blood and bone marrow blood samples through density gradient and immunomagnetic separation. DNA/RNA extraction and quantification from cells and tissue, nucleic acid amplification, real time PCR (SybrGreen and TaqMan approaches) analysis for the quantification of gene expression level and mutated allele burden, high resolution melting analysis HRM for mutations and SNPs screening, enzymatic DNA digestion and fragment analysis, automated Sanger sequencing, Library preparation and Illumina sequencing. Microtome cut of biological samples, mounted on slides, immunohistochemical and immunofluorescence

reactions, use of bright-field optical microscope and fluorescence, scanning electron microscope

Languages: Italian (mother tongue), English (level B2, General English Intensive Course, Alpha College of English, Dublin, August 2016)

Communication skills: Strong attitude in team working activities acquired during an international volunteering project (SIW internationale vrijwilligersprojecten, Netherland). Strong Leadership attitude

Computing Skills: Applications: Microsoft office suite, Internet explorer, molecular biology software suites and databases, filemaker pro. Operating system: Unix, Windows Vista

Publications

Rumi E, Sant'Antonio E, Cavalloni C, Comolli G, Ferretti VV, Cassaniti I, Pietra D, Trotti C, Ciboddo M, Furione M, Vanni D, Casetti IC, **Favaron C**, Baldanti F, Arcaini L, Cazzola M. (2020) "Impaired virus-specific T cell responses in patients with myeloproliferative neoplasms treated with ruxolitinib" *Hematol Oncol* Online ahead of print.

Rumi E, Zibellini S, Boveri E, Cavalloni C, Riboni R, Casetti IC, Ciboddo M, Trotti C, **Favaron C**, Pietra D, Candido C, Ferretti VV, Cazzola M, Arcaini L. (2019) "Ruxolitinib treatment and risk of B-cell lymphomas in myeloproliferative neoplasms" *Am J Hematol* 94:E185 - E188

Course, conferences and fellowships

Conference "Lymphomas: diagnostic and therapeutic novels" Pavia (PV) 26th September 2019

Poster presentation 24^o (European Hematology Association) Annual Meeting Annuale dell'EHA "Ruxolitinib treatment and risk of B-cell lymphomas in myeloproliferative neoplasms", 13th - 16th June 2019 Amsterdam (Holland) HemaSphere 2019; 3:287-288

Riunione operativa progetto AIRC 5x1000 "AIRC Project Meeting Actionable targets in clonal progression and systemic spreading of myeloid neoplasms" (P.I. Prof. Alessandro Vannucchi) 17 Dicembre 2018, Pavia (PV)

Conference "Next generation sequencing. From the laboratory to clinic: an hurdle way?" Milano, 27th March 2018

Italian group of myeloproliferative disease AGIMM-AIRC annual meeting, Pavia, 12th July 2017

Workshop in forensic sciences, Salice Terme (PV), 2/3th April 2016

EdiSu scholar fellowship (Pavia), 2018, 2017, 2016

Workshop in criminalistic and forensic sciences, Forensic Lab, Isola d'Asti, 7th November 2015

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data"

Cristina Favaron
