Federica Gentile

Medical and Pharmaceutical Biotecnology

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Formation

October 2021 - PhD in Genetics, Molecular and Cellular Biology, University of Pavia - Department of

Today Biology and Biotechnology "L. Spallanzani".

Supervisor Prof. Natalia Simona Pellegata

Description The research project is based on the application of most recent high-throughput technologies

to study genetic, genomic and molecular patterns important for tumor development and progression through an integrated, interdisciplinary approach. Transcriptomic and genomic data derived from the analysis of neuroendocrine and gastrointestinal tumors analyses, will be evaluated by dedicated bioinformatics approaches in order to find novel genetic signatures

and predictive markers.

September 2019 - Master Degree in Medical and Pharmaceutical Biotecnology, University of Pavia.

October 2021

Master Degree thesis

Titolo Tribbles genes role in gastric cancer: a genomic approach

Supervisor Prof. Guglielmina Nadia Ranzani

Co-supervisor Dott. Rossella Tricarico

Description Tribbles genes have been found to contribute to tumor onset and progression. They behave

as either oncogenes or tumor suppressors in a tissue-dependent manner. Based on these findings, there is a growing interest in TRIB proteins as potential diagnostic, prognostic and predictive markers regarding the response to pharmaceutical and chemotherapeutic treatments. While *Tribbles* genes have been studied in various human tumors, data on gastric cancer are almost non-existent. The aim of this work was to investigate *Tribbles*

genes in gastric cancer through an in silico approach, using several web sources.

September 2016 - Bachelor Degree in Biotechnology, University of Teramo.

October 2019

Bachelor Degree Thesis

Titolo Diet-related risk factors and their incidence on hereditary breast cancer

Supervisor Prof. Alessia Colosimo

Description Diet represents one of the major modulators of hereditary breast cancer onset, knowing the

risk factors and their role may help in fighting and preventing the cancer disease.

2016 High School Diploma, Liceo Classico "G.B. Vico" - Chieti.

languages

Italian - Native language

English - Level B2

Experiences

February 2021 – Thesis Internship, University of Pavia - Department of Biology and Biotechnology "L.

September 2021 Spallanzani", University of Pavia.

Internship at the Tumor Genetics Laboratory - Prof. Guglielmina Nadia Ranzani.

January 2019— **Internship**, *Laboratory assistant*, Medical Research Centers Ce.S.I. and I.T.A.B., Chieti. March 2019 Curricular internship at diagnostic laboratory of Medical Genetics - Professor Liborio Stuppia.

Technical skills

From Master Bioinformatic database (CCLE, NCBI, cBioPortal, Clustal Omega) •••••

Degree Internship R programming •••••

Python programming •••••
Bash programming ••••
Cell culture techniques •••••

From workshops Mass Spectrometry (MALDI-TOF) BSA Assay

Nucleic acids extraction (salting-out and trizol)

Proteins extraction

PCR

Pyrosequencing

ELISA

electrophoresis

from Bachelor BRCA1/2 gene sequencing, SHOX mutations, X-Fragile (NGS, Ion Torrent, Sanger)

Degree Internship RT-PCR