Giorgia Silvestrini

Nationality: Italian

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WORK EXPERIENCE

Bachelor's Degree Internship

University of Rome "Tor Vergata" [11/2017 – 18/05/2018]

City: Rome

Country: Italy

Laboratory of Biochemistry (Responsible: Prof. Luisa Rossi) - Department of Biology - School of Mathematics, Physics and Natural Sciences - University of Rome "Tor Vergata".

Acquisition of skills related to the main laboratory experimental methods in the biological field.

Dissertation/thesis title: Valutazione della vitalità di cellule SH-SY5Y trattate con 4-idrossinonenale mediante il test metabolico del 3-(4,5-dimethylthiazol-2-yl)-5-(3 carboxymethoxyphenyl)-2-(4-sulfophenyl)-2H-tetrazolium (MTS).

| Dissertation/thesis subject: BIOCHEMISTRY

| Thesis supervisor: LUISA ROSSI (luisa.rossi@uniroma2.it)

Work carried out in the laboratory of Biochemistry, headed by Professor Luisa Rossi, whose research activity is currently focused on the study of molecular mechanisms that regulate copper homeostasis, oxidative stress and mitochondrial function.

Master's Degree Internship

University of Rome "Tor Vergata" [17/07/2020 – 14/06/2021]

City: Rome

Country: Italy

Laboratory of Oncohaematology (Responsible: Prof. Maria Teresa Voso) - Department of Biomedicine and Prevention - School of Medicine and Surgery - University of Rome "Tor Vergata".

Acquisition of Cellular and Molecular Biology techniques in Oncohaematology.

Dissertation/thesis title: Deregolazione del pathway del TGF-beta in pazienti affetti da sindrome mielodisplastica con mutazione del gene SF3B1.

| Dissertation/thesis subject: HUMAN GENETICS

| Thesis supervisor: BIANCA MARIA CIMINELLI (bianca.ciminelli@uniroma2.it), MARIA TERESA VOSO

The aim of dissertation was to analyze the gene expression profile in patients with myelodysplastic syndrome (MDS), with particular reference to genes involved in RNA splicing. Thesis work shows that MDS patients display an altered and extremely heterogeneous gene expression profile. This heterogeneity could be linked to the presence of specific mutations in genes involved in splicing process. In particular, patients harboring SF3B1 mutation show a deregulation of genes belonging to the TGF-β pathway, suggesting for some of them a possible role as molecular targets.

Volunteer Internship

Laboratorio Analisi Cliniterm [08/2018 – 10/2018]

Address: Via Casilina Sud, Km 76, 03013 Ferentino (Italy) - https://www.cliniterm.com/

City: Ferentino

Country: Italy

Acquisition of skills related to General Biochemistry, Hormonal Biochemistry, Clinical Chemistry and Serum Protein Electrophoresis.

LANGUAGE SKILLS

Mother tongue(s):

Italian

Other language(s):

English

LISTENING C1 **READING** C1 **WRITING** C1

EDUCATION AND TRAINING

Classical Certificate

Norberto Turriziani Classical High School [09/2008 – 03/07/2013]

Address: Via Acciaccarelli, 53, 03100 Frosinone (Italy)

Final grade : 97/100

Bachelor's Degree in Biological Sciences

University of Rome "Tor Vergata" [10/2013 – 18/05/2018]

Address: Via Cracovia, 50, 00133 Rome (Italy)

Final grade : 101/110

Master's Degree in Molecular and Cell Biology and Biomedical Sciences

University of Rome "Tor Vergata" [10/2018 – 14/06/2021]

Address: Via Cracovia, 50, 00133 Rome (Italy)

Final grade : 110/110 cum laude

HONOURS AND AWARDS

Prizes

[2021 – 2021]

"Premi di studio a studenti iscritti in presenza di particolari requisiti di merito relativamente all'anno accademico 2017/2018" - Released by University of Rome "Tor Vergata"

SKILLS ACQUIRED DURING STUDIES

Skills acquired during studies

Cell Biology

- Adherent Cell Cultures (HEK 293, SH-SYSY, MSC) and Suspension Cell Cultures (MOLM-13)
- Isolation of mononuclear cells from peripheral blood and bone marrow by density gradient
- Isolation of hematopoietic stem cells by immunomagnetic separation
- Cell viability assay (MTS)
- Electroporation
- Transient transfection of HEK293 and SH-SYSY cells
- DNA-jetPRIME transfection reagent
- In vitro cell treatments
- Preparation of slides with May-Grunwald Giemsa staining

Molecular Biology

- Nucleic acid quantification (Nanodrop and Qubit)
- DNA and RNA extraction (from pellets, from Trizol and automatic with Maxwell) and cryopreservation
- PCR, RT-PCR, Real-Time PCR, Q-LAMP.
- Sanger sequencing and Next Generation Sequencing (NGS)
- Capillary electrophoresis/agarose gel
- SDS-PAGE electrophoresis
- Sonication
- Western Blot
- Gene cloning in competent cells
- Gene silencing by RNA interference (RNAi)

Biology of Systems and Bioinformatics

- Excellent knowledge of Cytoscape, CellDesigner, DAVID, SIGNOR 2.0 (The SIGnaling Network Open Resource)
- Good knowledge of GraphPad Prism and Perseus software
- Good knowledge of R software

DIGITAL SKILLS

Microsoft Office / Social Media / Basic skills in photoshop and video editing (Adobe Photoshop and Adobe Premier) / Information elaboration

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Dynamic, ambitious, committed, autonomous, charismatic, result-orientated.

Working as an intern in two different research labs gave me the opportunity to gain technical experience and improve my individual work and problem-solving attitude.

MANAGEMENT AND LEADERSHIP SKILLS

Management and leadership skills

Excellent organizational and time management skills, entrepreneurial in planning and developing projects.

Ability to work independently and, at the same time, great propensity for teamwork and dialogue.

DRIVING LICENCE

Driving Licence: B 24/10/2012 – 23/02/2023

Autorizzo il trattamento dei miei dati personali ai sensi del D.L. 196/2003

Frosinone, 04/08/2021