

PERSONAL INFORMATION

Fiorino Alessia



 (Italia)

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WORK EXPERIENCE

03/09/2018–05/07/2019

BIOLOGY INTERNSHIP

Laboratory of “Genetica ed Oncologia Molecolare e Clinica” Department of Surgical, Oncological and Oral Sciences, Section of Medical Oncology, University of Palermo, Palermo (Italy)

Investigation of the mutational status of susceptibility genes in breast cancer, in particular from peripheral blood samples of patients with triple negative breast cancer (TNBC). Use of Next Generation Sequencing (NGS) techniques and direct automatic sequencing for the evaluation of the mutational status of the BRCA1 and BRCA2 genes. After selection of wild type BRCA1/2 patients with a strong family history of breast or ovarian cancer, so-called BRCAness patients, 22 genes of hereditary cancer susceptibility were investigated through the use of multigene panels in Next Generation Sequencing. Analysis that brings out new targets for the development of personalized targeted therapies and that assumes a predictive meaning of response to treatment to PARP inhibitors following the detection of a condition of Homologous Recombination Deficiency (HRD).

Furthermore, execution of sequence amplification protocols through PCR, Real Time-PCR, Nested-PCR, Gradient-PCR and also execution and data analysis of Digital PCR and Droplet Digital PCR protocols.

Internship carried out during university studies and recognized by the master's degree program as a pre-graduate internship.

Business or sector Genetics, molecular biology, oncology and research on heredo-familial tumors

03/04/2017–09/06/2017

BIOLOGY INTERNSHIP

Experimental Zooprophyllactic Institute of Sicily A. Mirri - Caltanissetta area, Caltanissetta (Italy)

Execution of the main immunological techniques for the diagnosis of zoonoses and other animal diseases from peripheral blood samples. In particular, execution of the Rapid Agglutination Serum Protocol (SAR) and Complement Fixation (FDC). In addition, ELISA tests, microbiological food analysis techniques and research of *Trichinella spiralis* in muscle tissue samples were carried out.

Internship carried out during university studies and recognized by the degree course as a pre-degree internship.

Business or sector Assessment of the health status of animals and the healthiness of products of animal origin, veterinary and environmental surveillance, research and scientific experimentation

EDUCATION AND TRAINING

09/01/2020

BIOLOGIST QUALIFICATION

University Of Palermo, Palermo (Italy)
 Qualified as a Professional Biologist (Section A)

01/11/2019–Present

PhD STUDENT IN ONCOLOGY AND EXPERIMENTAL SURGERY

Department of Surgical, Oncological and Oral Sciences (DICHIRONS), Section of Medical Oncology, University of Palermo, Palermo (Italy)

PhD Course “Oncology and Experimental Surgery – Cycle XXXV”.

Research project: "NEXT GENERATION SEQUENCING ANALYSIS WITH MULTIGENIC PANEL IN PATIENTS WITH TRIPLE NEGATIVE BREAST CANCER".

10/2017–26/07/2019

MASTER'S DEGREE ON “MEDICAL BIOTECHNOLOGY AND MOLECULAR MEDICINE” - CLASS LM-9

University Of Palermo, School of Medicine and Surgery - Department of Biomedicine, Neuroscience and Advanced Diagnostics (BiND), Palermo (Italy)

M.Sc. in Medical Biotechnology and Molecular Medicine with the score of 110/110 *cum LAUDE* and academic mention to the thesis.

Degree thesis: "NEXT GENERATION SEQUENCING ANALYSIS WITH MULTIGENIC PANEL IN PATIENTS WITH TRIPLE NEGATIVE BREAST CANCER".

10/2013–25/07/2017

BACHELOR DEGREE ON BIOLOGICAL SCIENCES - CLASS L-13

University of Palermo, School of Basic and Applied Sciences - Department of Biological Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), Palermo (Italy)

B.Sc. in Biological Sciences with the score of 108/110.

Degree thesis: "BRUCELLOSIS: LABORATORY DIAGNOSIS AND GUARANTEE OF RELIABILITY OF RESULTS".

09/2008–06/07/2013

HIGH SCHOOL

Classical Linguistic and Coreutic High School "R. Settimo", Caltanissetta (Italy)

High school degree with the score of 89/100.

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Pearson LCCI Level 2 Certificate in ESOL International (CEFR C1)					

French	A1	A1	A1	A1	A1
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Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages - Self-assessment grid

Communication skills

Ability and interest in relating to people of different nationalities and cultures. Ability to communicate clearly, responding carefully and precisely to specific requests from the client and / or the reference user. Nature capable of adapting to new situations, changes and being part of a team.

Organisational / managerial skills

Good organizational skills and ability to work autonomously and independently by defining the priorities of the day, taking responsibility for one's own work, respecting set deadlines and objectives. Excellent ability to manage unexpected events and to work in a team.

Job-related skills

Excellent knowledge and ability to execute the following protocols:

- Extraction of DNA from peripheral blood samples and FFPE biopsy tissues,
- Qualitative and quantitative techniques for the analysis of DNA/RNA samples by spectrophotometry,
- Isolation of lymphocytes from peripheral blood,
- Amplification of sequences through PCR, Real Time-PCR, Nested-PCR, Gradient-PCR,
- Digital PCR and Droplet Digital PCR techniques and data analysis,
- Direct automatic sequencing,
- Electrophoretic mobility tests,
- Next Generation Sequencing (NGS) techniques through Ion Torrent S5 (Thermo Fisher Scientific) and Illumina platforms.

Ability to interpret electropherograms, amplification plot of Real Time-PCR and data analysis using specific software for each of the techniques listed above.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Independent user	Independent user	Independent user	Independent user

Digital skills - Self-assessment grid

Windows operating system (OFFICE package)
 Macintosh operating system

Driving licence

B

ADDITIONAL INFORMATION

Courses

Training Certificate for participating and passing the final exam of the "HEALTH AND SAFETY TRAINING COURSE FOR WORKPLACES IN THE HEALTHCARE SECTOR" held from 5/4/2017 to 6/4/2017 at the Headquarters dell'IZSS "A. Mirri" total 16 hours (4 hours general module and 12 hours specific module).

Certifications and conference communications

Abstract "MOLECULAR ANALYSIS OF BRCA1/2 GENES AND MULTIGENE-PANEL TESTING IN SICILIAN TRIPLE NEGATIVE BREAST CANCER".

21st national GOIM congress, 27-29 June 2019 Catania, Italy

Treatment of personal data

I authorize the processing of personal data contained in my curriculum vitae based on art. 13 of Legislative Decree 196/2003 and art. 13 of EU Regulation 2016/679 relating to the protection of individuals with regard to the processing of personal data.