

PERSONAL INFORMATION

Ilaria Serangeli



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WORK EXPERIENCE

01/03/2019–01/04/2019

University of Surrey, Guilford (United Kingdom)

I had the opportunity to complete a new generation sequencing antibody library from RNA samples deriving from ebola survivors.

EDUCATION AND TRAINING

10/10/2015–12/06/2018

Bachelor's degree in Biotechnology

110 with honours/110

University of Rome "La Sapienza", Rome (Italy)

In the bachelor degree I acquired knowledge and skills in the fields of Biology and Biochemistry and spent two months in a molecular biology lab for my thesis.

In particular the courses include:

- Biochemistry
- Molecular Biology
- Immunology
- Pathology

Bachelor's thesis overview:

In my bachelor's thesis I worked in a molecular biology lab which focused on elucidating the interaction between the cancer-overexpressed protein SHMT and a 5'UTR in vitro. SHMT is involved in cancer metabolism and its interaction with RNA could regulate its own synthesis.

10/10/2018–Present

Master's degree in "Genetics and Molecular Biology"

University of Rome "La Sapienza", Rome (Italy)

The master degree made me understand my real interests through the possibility of creating my own academic program. In every course a deep attention is dedicated to the correlation between the molecular level and the onset of the most common pathologies. I spent one year in the "Genetics and rare diseases lab" at Bambin Gesù, to accomplish my master thesis.

In particular the courses include:

- Immunopathology
- Stem cells
- Neurobiology of development
- Data analysis

Master's thesis overview:

The project is based on reprogramming patient's and control's fibroblasts into iPSCs and differentiate them into cortical neurons. My role is to assess if patients differentiate differently from controls. This is just the point of start of a bigger vision that has the aim to build a 2D model for PCDH19 in order to develop drug screening assays.

16/06/2018–16/12/2018

Traineeship in Immunology Laboratory

University of Surrey, Guildford (United Kingdom)

Traineeship based on exploring B cell repertoire in Ebola survivors. I collaborated in making a new generation sequencing library and analyzing it.

I also participated in writing of the book chapter “Age related changes in B cells relevant for vaccine responses” for “Interdisciplinary Topics in Gerontology and Geriatrics”.

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------------------|---------------|---------|--------------------|-------------------|---------|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C1 | C1 | C1 | C1 | C1 |
| IELTS certificate | | | | | |
| Spanish | B1 | B1 | B1 | B1 | B1 |
| DELE B1 certificate | | | | | |

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

During my laboratory experience I acquired good communication skills and good abilities to work as a team. I think that in research it is important to work together to reach common goals.

Organisational / managerial skills

In my laboratory experience I learnt how to organize my time and how to schedule the experiments. I worked also in absence of supervision and I learnt how to grow from my own mistakes.

Job-related skills

In my laboratory experience I acquired good competences in the techniques of:

- Cell culturing
- RNA extraction
- Retrotranscription
- Real Time PCR
- PCR
- Gel electrophoresis
- Western blot
- Immunofluorescence

Digital skills

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

[Digital skills - Self-assessment grid](#)

I learnt how to programme in Python and how to critically analyze datas with statistic tools.

Other skills

- Since I was I child I fell in love with music and it is still one of my main passions. I interpret with my

voice jazz classic or modern hits and I play ukulele and piano.

- I also like doing yoga, running or walking in the nature to keep my mind and body healthy.
- I love reading of ancient history or classic books experiencing a completely different world.