

Curriculum vitae

PERSONAL INFORMATION



Valerio Laghi

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Sex Male | Date of birth 30/08/1990 | Nationality Italian

WORK EXPERIENCE

01/01/2019

Researcher

Pasteur Institute, Paris (France)

Researcher for the project number 10 of the european project "imageinlife".

"ImageInLife is a @EU_H2020 Marie Skłodowska-Curie European Training Network on Multilevel Bioimaging, Analysis and Modelling of Vertebrate Development that addresses the challenge of understanding how cells behave to build organisms as complex as vertebrates. It brings together leading European research groups in the field and partners from companies that aim to commercialise corresponding tools. This 4-year project started in January 2017. "

2009–2012

Sales and marketing department manager

Gestional Food srl, Roma (italia)

product placement and target definition, product display and layout definition, quality control and social media development

EDUCATION AND TRAINING

2016–24/10/2018

Laurea magistrale in Biologia Cellulare e Molecolare e Scienze Biomediche classe (LM-6 DM-270)

Università di Tor Vergata, Dipartimento di scienze matematiche, fisiche e naturali, Roma (Italy)

- Tutor: Francesa De Santa (CNR) e Stefano Cannata (Tor Vergata University)
- Expected degree mark: **110/110 con lode**
- Expected graduation date: 24/10/2018
- Thesis title and aim of the work:
 - "Role of macrophages in mediating the activity of the HDACi on dystrophic muscles of mdx mice"
 - The aim of this work is to elucidate the mechanism and cellular components involved into the effect of Givinostat, an HDACi, on the regeneration of dystrophic muscle. The model used to investigate the aforementioned aspects is the mdx mice, specific for the Duchenne muscle disease. We focused our attention on the satellite cells and macrophages; investigating how the Givinostat reduce the inflammation and activate the satellite cells. To elucidate these aspects we used histopathological methods (i.e. staining and immunofluorescence), genome-wide analysis (i.e. nano-cage sequencing) and cell extraction and culture (i.e. bone marrow derived and FACS isolated macrophages). Furthermore, I developed new methods to analyze the images using software such as CellProfiler, Imagej and Rstudio.

2018–2018

Advanced statistical method for the biomedical research and use of software Rstudio.

CNR - Santa Lucia, Roma (Italy)

The aim of this course is to illustrate new method of statistical analysis and teach how to implement

them through software Rstudio. In particular, the skills provided by this course are focused to better understand the statistical aspect of animal-based research; with the aim to reduce the number of animals used in an experiment.

2017–2017 **Image Anlaysis**

CNR-Santa Lucia

This course aim to provide the competencies needed to correctly use different image acquisition methods and teaches how to use the most notorious images analysis software. Particular focus is given to the confocal microscopy.

2013 **Erasmus**

NTNU, Trondheim (Norway)

Erasmus student in biology at NTNU (norway).

2009–2016 **Degree in Biological Science(L-13 DM-270)**

Tor vergata University, Roma (Italy)

■ Tutor: Antonella Canini (Tor Vergata University)

■ Thesis title:

- *"Biological effect of the lipophilic and hydrophilic fractions of the Royal Jelly on the in vitro growth of mammalian cell lines"*

2003–2009 **High school diploma in computer science**

ITIS Enrico Fermi, Frascati (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

Communication skills futher developed during:

European Union Program: Erasmus

Language: English

Duration: 10 month

Country: Norway

Institution: NTNU (Trondheim)

Organisational / managerial skills

- As past president of a rotaract club i developed leadership, communication and presentation related skills
- Good organisational and team leading skills gained drom my previous work
- Good adapting and Team working skills developed during my training at NTNU (Trondheim)
- I have a growth mindset that bring to always push myself to acquire and polish new skills. Due to this i developed resilience, patience, perseverance and a good stress management
- During my work i tend to use a methodical approach that bring me to strive for precision and for the results

- Job-related skills**
- Murine model manipulation
 - Genotyping
 - Tissue extraction and manipulation
 - Primary cells isolation through FACS
 - Cell culture
 - Histological sample processing
 - Tissue staining
 - RNA and proteins extraction from tissues and cells
 - Analysis of gene expression through qPCR, RT-PCR, Western Blot and immunofluorescence
 - immunofluorescence on histological tissues
 - Programming in R software language
 - Elaboration of data through advanced statistical approach
 - Development of Image Analysis pipelines through CellProfiler, NIS, LasX, Imagej
 - Advanced skills in confocal microscopy

Digital skills

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

Digital skills - Self-assessment grid