

# Valerio Laghi

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## LANGUAGES

- Italian: Mother tongue
- English C1
- French B2

## SOFT SKILLS

- Leadership and communication
- Organizational, team working, adaptation skills
- Resilience, patience, perseverance and good stress management
- Methodical approach that bring me to strive for precision and for the results

## VOLUNTARY WORK

- 2009-Present  
Rotaract member, Rotary international foundation (various roles)
- 2019-Present  
Vice President StaPa Institut Pasteur ESRs association
- 2019-Present  
Conference organizer (IYSN ImaBio, Acquirer Workshop and other StaPa scientific seminars)

## Profile

Young researcher curiosity fueled towards exploring new topics and approaches. I am hardworker and passionate about my job, with strong skills in project managing, innovation and problem solving. By experience, I developed a strong self-marketing and business mentality too.

## Work Experience

### 02/01/2019–Present

**Research assistant** and **ESR 10** in **ITN MSCA ImageInLife**, supervisors Jean-Pierre Levraud and Emma Colucci, Institut Pasteur, Paris (France) "*Whole-body imaging and modeling of viral infection in zebrafish*"

### 2017- 2019

**Freelancer chef** for catering agencies and high-level events in Rome

### 01/07/2017-25/10/2018

**Undergraduate internship**, supervisor Francesca De Santa, Tor Vergata University, Roma (Italy) "*Impact of the HDACi Givinostat on dystrophic muscle: functional crosstalk between skeletal muscle and immune system during muscle regeneration*"

### 2009–2012

**Sales and marketing department manager**, Gestional Food srl, Rome (Italy).

## Education

### 2018

**Master's Degree in Cellular and Molecular Biology and Biomedical Sciences** (LM-6 DM-270) Tor Vergata University, Rome (Italy) 110/110 cum laude

### 2016

**Bachelor Degree in Biological Sciences** (L-13 DM-270) Tor Vergata University, Rome (Italy)

### 2013–2014

**Erasmus exchange** program with focus on immunology, virology and molecular biology NTNU, Throndeim (Norway)

### 2009

**High school diploma** in experimental computer sciences ITIS Enrico Fermi, Frascati (Italy)

## Training

**2020 – Flow Cytometry** application on Attune NeXT, ThermoFisher, Paris (France)

**2019 - Fundamental Immunology**, Institut Pasteur, Paris (France)

**2019 - Startuppering and Patenting**, Heidelberg (Germany)

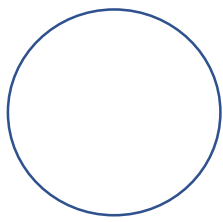
**2019 - Modelling, 3D+time image** segmentation and cell tracking method, Bratislava (Slovakia)

**2019 - Imaris software training**, Institut Pasteur, Paris (France)

**2019 - Animal experimentation** qualification, conception level, **aquatic models**, Paris (France)

**2018 - Advanced statistics** for biomedical research, Rstudio software, CNR-Santa Lucia, Rome (Italy)

**2017 - Fundamentals of Image Analysis** and NIS software, CNR-Santa Lucia, Rome (Italy)



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## Work Skills

### Molecular Biology

PCR, qPCR, Oligonucleotides designing, blotting, CRISPR and more

### Animal Experimentation

Previous work on murine and zebrafish model, with knowledge in animal handling and husbandry, tissue extraction, cell isolation and primary cell culture, animal genetic manipulation, genotyping, DNA and RNA extraction, microinjection

### Pathogen handling

Training and certifications for BSL2 and BSL3 laboratories, with knowledge in pathogens handling for a wide variety of human viruses (Rabies, Sindbis and SARS-cov ) and bacteria.

### Imaging and Image Analysis

Expert in the use of confocal imaging and widefield imaging, with a solid base in general imaging. Knowledge on most of the microscope software circulating (LASX, NIS and Zeiss). Proficient in scripting on Fiji and using CellProfiler and Ilastik. Able to use R language and Prism to conduct advanced statistical analysis

## Theoretical Highlights

Ample knowledge in **Immunology** and **Virology**, developed in the study of **Regenerative medicine** and **Host Pathogen Interaction**.

Solid basis in **Business development**, **Entrepreneurship** and **Marketing**, developed independently and professionally through previous work experience.

Ability to intertwine transversally both professional aspect in a proficient and relevant way.

## Awards

### 2020

Award as best **presentation/project** in the "Virology Afternoon" annual event of the Virology Department of Institut Pasteur (Paris, France)

### 2019

Award as best **video poster** and **teaser** on a scientific project in the "Science over lunch" event of the Immunology Department of Institut Pasteur (Paris, France)

## Publications

IFN-Stimulated Genes in Zebrafish and Humans Define an Ancient Arsenal of Antiviral Immunity

Jean-Pierre Levraud, Luc Jouneau, Valérie Briolat, Valerio Laghi, Pierre Boudinot

The Journal of Immunology December 15, 2019, 203 (12) 3361-3373; DOI: 10.4049/jimmunol.1900804