



Fabio Aimi, PhD

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INFORMATION

Date of birth: March 31st 1985
Place of Birth: Parma (ITA)
Nationality: Italian
Permit: Aufenthaltbewilligung B

SOFT SKILLS

TEAM PLAYER: collaborative and friendly
ENTHUSIASTIC: energetic and positive
SOLUTION FINDING: creative and reliable

LANGUAGES

Italian (mother)

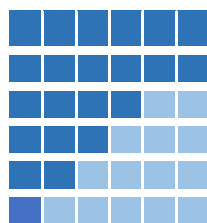
English (C2)

German (B2)

Spanish (B1)

French (A2)

Neonli (A1)



Fabio Aimi, PhD

Postdoctoral Researcher – Life Science

PROFESSIONAL EXPERIENCE

(August 2016 – February 2018)

POSTDOCTORAL RESEARCHER

Lunaphore Technologies SA
École polytechnique fédérale de Lausanne (EPFL)
Centre hospitalier universitaire vaudois (CHUV)

Breast Cancer clinical study design in collaboration with: EPFL microfluidic department (Prof. M. Gijs) and CHUV pathology department (Prof. L. De Leval)

Immunohistochemistry (IHC) staining protocols optimization for breast cancer and immune-cells markers by using a microfluidic-based device

Staining of formalin-fixed paraffin-embedded (FFPE) tumor biopsies, frozen section (FS) and cytology samples (ICC)

Experiment development according to quality standards (QMS): SOPs, WINs and FORs

Microscopy imaging, computational elaboration and statistical analysis of the obtained data

Data presentation to collaborators and internal reporting

Contribution in device hardware and software development

(May 2011 – November 2015)

PHD LABORATORY ASSISTANT

University Hospital Zürich (USZ)
University of Zürich (UZH)

Study of the role of the multiprotein complex mTORC2 in angiogenesis (Prof. Dr. med. Edouard Battegay laboratory)

In vivo: retinal vascularization and tumor development in mice

In vitro: primary endothelial and cancer cell culture and cellular assays

Molecular: transcriptome and proteome analysis, Real Time PCR, Immunoblotting, ELISA, electrophoresis

Staining: immunohistochemistry (IHC), immunofluorescence (IF), immunocytochemistry (ICC)

Microscopy: fluorescence and confocal microscopy

FACS: scanning and sorting

Statistical analysis

Teaching: students supervisor

INFORMATICS

JAVA Programmer Diploma (July 2004)
Office Programs
O.S. (e.g. Windows, Linux, MacOS)
Graphic Softwares (e.g. Photoshop)
Scientific Softwares (e.g. ImageJ, Blast)
Statistic Softwares (e.g. GraphPad)

PRESENTATIONS

Oral Presentation
14th Day of Clinical Research,
Zürich, CH
April 9th 2015

Poster Presentation
Keystone Symposia,
Vancouver, CANADA
January 13th-18th 2015

Oral Presentation
8th ZIHP Symposium
Zürich, CH
August 24th 2012

AWARDS

Best Oral Presentation
8th ZIHP Symposium,
Zürich, CH
August 24th 2012

Extracurricular Activities

Baseball: player for 25 years,
Italian champion in 2003 and
2010; European champion in
1997.

Baseball: coach of the Nepal
Baseball National Team, 2018.

Travelling: backpacking in
Nepal, California, Australia,
Canada

Trekking: mount Everest trek

Other: Music, Photography,
Yoga, Snowboarding, Biking

(July 2009 – July 2010)

MSc LABORATORY ASSISTANT

University of Parma (UNIPR)
University of Ferrara (UNIFE)

Chemically synthesize, purify and analyze PNAs (peptide nucleic acids) (Prof. Roberto Corradini laboratory) and use them to target micro-RNA to regulate gene expression (Prof. Roberto Gambari laboratory)

Chemical techniques: high pressure liquid chromatography (HPLC), mass spectrometry (MS), spectrophotometer analysis, solid-phase peptide synthesis

(September 2007 – February 2008)

BSc LABORATORY ASSISTANT

University of Parma (UNIPR)

Gene cloning and protein expression and purification in bacteria (Prof. Angelo Bolchi laboratory)

Molecular: gene cloning, protein extraction and fast protein liquid chromatography (FPLC)

In vitro: prokaryotes cell culture and cellular assays

EDUCATION

(May 2011 – November 2015)

PhD in Integrative Molecular Medicine (ImMed)

University of Zürich

Thesis: "*The Role of Endothelial RICTOR (mTORC2) in angiogenesis in vivo and in vitro*"

(October 2007 – July 2010)

Master in Science (Molecular Biology)

University of Parma

Thesis: "*Synthesis of anti-miR PNAs (Peptide Nucleic Acids) and their use in the regulation of the gene expression*".

Mark: 110/110 with honors

(October 2004 – February 2008)

Bachelor in Science (Biology)

University of Parma

Thesis: "*Cloning, Expression and Purification of the Fusion Protein NUS-VA48*".

Mark: 107/110

PUBLICATIONS

Microfluidic-based Immunohistochemistry for Molecular Profiling of Breast Cancer : a Comparative Clinical Study
Aimi F et al (paper submitted)

Endothelial Rictor is crucial for midgestational development and sustained and extensive FGF2-induced neovascularization in the adult.
Aimi F, et al (Sci Rep. 2015 Dec 4;5:17705)

Peptide nucleic acids targeting miR-221 modulate p27Kip1 expression in breast cancer MDA-MB-231 cells.
Brogna et al (Int J Oncol. 2012 Dec;41(6):2119-27)