



Curriculum Vitae Europass

Personal Information

Surname/Name **Ferrara Ines**

Nationality Italian

Date of birth

Gender Female

Working position **PhD Student in “Oncology and Experimental Surgery”-XXXIV cycle**
Biotechnologist

Work Experience

Date **11th September 2017-31th October 2018**

Working position Post-lauream Trainee at University of Palermo-“AOUP P.Giaccone”

Department of Sciences for Health Promotion and Mother and Child Care “Giuseppe D’Alessandro”-
Human Pathology Section
“AOUP P.Giaccone”
Tumor Immunology Unit- Supervisor Professor Claudio Tripodo

Main activity and responsibilities I worked on existing relationship between stromal microenvironment and DNA Damage Response, in different tumour contexts.
I learned techniques such as Hematoxylin and Eosin staining, Masson’s trichrome staining, Immunohistochemistry, Immunofluorescence, use of Confocal Microscopy and tools for digitalization of images and protein quantification (ImageJ, ImageScope)
I performed tutoring activity.

Date **15th April 2016- 1st July 2016**

Working position Post-lauream trainee with scholarship at University of Gothenburg
Erasmus PLUS Project- UNIPA

Krefting Research Centre- University of Gothenburg
Professor Jan Lötvald under supervision of Dr. Cecilia Lasser

Main activity and responsibilities I focused my study on characterization of extracellular vesicles released by cardiomyocytes.
I had the opportunity to make experience about cell culture, isolation of subtypes of extracellular vesicles, exosome RNA isolation and quantitative analysis using Bioanalyzer, exosome protein extraction and quantitative analysis by BCA assay. I took part to scientific reports and journal clubs.

Date **15th September 2014- 29th January 2016**

Working position Trainee at National Research Council, Palermo
Master's degree thesis

Main activity and responsibilities IBIM- Istitute of Biomedicine and Molecular Immunology
Cellular Dynamics Lab- supervisor Dr. Antonella Bongiovanni

The project was based on the role of palmitoylation in proteins involved into exosome biogenesis, in muscle cells. I obtained experience about cell culture, isolation of extracellular vesicles subtypes, Western Blotting, Protein Immunoprecipitation, IP-Acyl Biotin Exchange assay, protein quantitative analysis using ImageJ tool.
I performer tutoring activity

29th April 2014- 25th July 2014

Date Trainee at l'University of Palermo- "AOUP P.Giaccone"

Working position Internal Medicine and Metabolic Diseases Unit- Genetic Dyslipidemia Centre
Professor Angelo Baldassare Cefalù

Main activities and responsibilities During the traineeship, I worked on genetic-molecular characterization of genetic dyslipidemia, acquiring skills in scientific techniques such as PCR, agarose gel electrophoresis, DNA sequencing through Sanger's method.
Moreover, I observed the working of procedure of massive DNA sequencing (Next Generation Sequencing- Ion Torrent technology)

22th October 2012- 21th December 2012

Date Trainee at "Villa Sofia-Cervello" Hospital- Palermo

Working Position Bachelor's degree traineeship

Laboratory of Oncoematologia Diagnostic and Cellular Manipolation
Dr. Alessandra Santoro

Main activities and responsibilities The traineeship activity was focused on characterization of molecular prognostic markers of Acute Myeloid Leukemia, gaining skills about preparation of blood samples, DNA and RNA extraction using kit and ABI PRISM 6100, PCR, agarose gel electrophoresis, DNA sequencing through Sanger's method, Real Time PCR.

PUBBLICATIONS 1."PALMITOYLATION IS A POST-TRANSLATIONAL MODIFICATION OF ALIX REGULATING THE MEMBRANE ORGANIZATION OF EXOSOME-LIKE SMALL EXTRACELLULAR VESICLES".

Romancino DP, Buffa V, Caruso S, **Ferrara I**, Raccosta S, Notaro A, Campos Y, Noto R, Martorana V, Cupane A, Giallongo A, d'Azzo A, Manno M, Bongiovanni A.
Biochim Biophys Acta Gen Subj. 18th September 2018 doi: 10.1016/j.bbagen.2018.09.004

2."THE PATHOLOGICAL SIGNIFICANCE AND PROGNOSTIC VALUE OF SURFACTANT PROTEIND IN CANCER"

Alessandro Mangogna, Beatrice Belmonte, Chiara Agostinis, Giuseppe Ricci, Alessandro Gulino, **Ines Ferrara**, Fabrizio Zanconati, Claudio Tripodo, Federico Romano, Uday Kishore, Roberta Bulla.
Frontiers in Immunology 6th August 2018
doi: 10.3389/fimmu.2018.01748

ABSTRACTS

1. IN VITRO E IN VIVO MODELS TO UNRAVEL THE ROLE OF ALIX IN MEMBRANE AND ACTIN DYNAMICS

D. P. Romancino, V. Buffa, **I. Ferrara**, A. Notaro, Y. Campos, A. D'Azzo and A. Bongiovanni
IV MEETING "Biotecnology Basic Interdisciplinary Traslational Research in Biomedical Field"
http://www.ibim.cnr.it/bio_abstract2016/index.html
National Research Council, 15-16th December 2016, Palermo

2. SKELETAL MUSCLE-DERIVED EXTRACELLULAR VESICLES (EVs): AN INTEGRATED APPROACH TO STUDY THE ROLE OF PROTEIN LIPIDATION IN THEIR BIOGENESIS AND STRUCTURAL ORGANIZATION

Valentina Buffa, Daniele P. Romancino, **Ines Ferrara**, Alessandra d'Azzo, Mauro Manno and Antonella Bongiovanni

The 9th International Conference on Cachexia, Sarcopenia and Muscle Wasting

Journal of Cachexia, Sarcopenia and Muscle, 7: 626–662. doi: 10.1002/jcsm.12164

Berlin, 10–11th December 2016

3. IMPORTANCE OF PROTEIN LIPIDATION IN THE PRODUCTION AND STRUCTURAL ORGANIZATION OF EXTRACELLULAR VESICLES (EVs): AN INTEGRATED APPROACH IN SKELETAL MUSCLE CELLS

Valentina Buffa, D.P. Romancino, S. Raccosta, A. Notaro, **I. Ferrara**, A. D'Azzo, V. Martorana, M. Manno, A. Bongiovanni

“Organelle Biogenesis and Signal Transduction” Conference 2016

Turin, 26-28th May 2016

4. THE ROLE OF S-PALMITOYLATION IN THE BIOGENESIS OF SKELETAL MUSCLE- DERIVED EXTRACELLULAR VESICLES AND THE STRUCTURAL ORGANIZATION OF THEIR MEMBRANE

Daniele P. Romancino, Valentina Buffa, Samuele Raccosta, Antonietta Notaro, **Ines Ferrara**, Alessandra d'Azzo, Vincenzo Martorana, Mauro Manno and Antonella Bongiovanni

V International Conference of ISEV (International Society for Extracellular Vesicles) ISEV2016

Journal of Extracellular Vesicles. 2016; doi: 10.3402/jev.v5.31552

Rotterdam, 4-7th May 2016

ORAL PRESENTATION

1. ROLE OF PROTEIN LIPIDATION IN EXOSOME BIOGENESIS AND CARGO SELECTION

Ines Ferrara, Valentina Buffa, Antonietta Notaro, Samuele Raccosta, Alessandra D'Azzo, Vincenzo Martorana, Mauro Manno, Daniele Romancino and Antonella Bongiovanni.

III MEETING “Biotecology Basic Interdisciplinary Traslational Research in Biomedical Field”

http://www.ibim.cnr.it/bio_abstract2015/index.html

National Research Council 17-18th December 2015

CONFERENCES AND COURSES

1.XII Theoretical-Practical Course of Confocal Microscopy

IFOM Istitute FIRC of Molecular Oncology, Milan 22-24th May 2018

2. Conference: III MEETING “Biotecology Basic Interdisciplinary Traslational Research in Biomedical Field”.

National Research Council, 17-18th December 2015

3. Course: “EU DIR.2010/63 and D.L. n.26 04/03/2014 What’s going to change for Lab Animals? Course on the protection of animals used for scientific purposes”.

Palermo, 21-28th October 2014

4. Conference: “ME-HaD European Network on Microvesicles and Exosomes in Health and Disease- Autumn 2014 MC & WG meetings-

September 27th, 2014: Working Group meetings”

Palermo

5. Conference: “MAME-MAnagement of metastatic MELanoma”

Palermo, 19th June 2014

6.Conferenza: “Talking about METASTATIC BREAST CANCER HER2-”

Palermo, 14th June 2014

7. “IV National AIOM and SIAPEC-IAP Conference

Palermo, 22th May 2014

Education and training

Date **July 2017**

Qualified as a Professional BIOLOGIST – 1st Session 2017- University of Palermo
grade: 215/240

Date **November 2013-March 2016**

M.Sc. Medical Biotechnology and Molecular Medicine- University of Palermo –
School of Medicine and Surgery – grade 110/110 cum Laude.

Thesis Title:“S-palmitoylation of multifunctional protein Alix: role in the biogenesis of skeletal muscle
derived- extracellular vesicles.”

Date

October 2009-February 2013

B.Sc. Biotechnology- University of Rome Tor Vergata
grade 99/110

Final script:

“ NPM1 silencing through RNA interference inhibits cell proliferation and induces apoptosis in
leukemia cell lines”

Date **September 2004-July 2009**

Classic State High School Diploma – grade 80/100

Personal skills

Mother tongue **Italian**

Other language **English**

Understanding

Listening

B2

Reading

B2

Speaking

Spoken Interaction

B2

Spoken Production

B2

Writing

B2

Communication/ organization / managerial skills Good communication skills, gained through home and abroad experience. Excellent organization skills, obtained through group studies at university and development of research project, also in multicultural environment. Good listening ability, to follow the instructions. I have spirit of initiative, organizing the work and time in independent manner. I am determined to reach my goals.

Digital Competence Good knowledge of Microsoft Word, Excel and Power Point.

License B Driving Licence

The undersigned acknowledges that, pursuant to art. 26 of Law 15/68, false statements, the falsified acts and use of false acts are punishable under the Penal Code and special laws. In addition, it authorizes the processing of personal data, as provided by Law 196/03.