



Debora Libetti

WORK EXPERIENCE

15/06/2020 – 15/03/2024 Lyon, France

POSTDOCTORAL RESEARCHER CENTRE DE RECHERCHE EN CANCÉROLOGIE DE LYON

EDUCATION AND TRAINING

01/10/2016 – 04/05/2020 Milan, Italy

PHD IN "MOLECULAR AND CELLULAR BIOLOGY" University of Study of Milan

Project: "Role of NF-YA isoforms in mouse Embryonic Stem Cells and Myoblasts differentiation"
Supervisor professor Roberto Mantovani

10/2014 – 10/2016 Milan, Italy

DEGREE IN MOLECULAR BIOLOGY OF THE CELL University of Study of Milan

Thesis: "Study of NF-Y and IncPANDA interaction and investigation of NF-YA capability to behave as Cell-Penetrating Peptide (CPP)"
110/110 cum laude

09/2011 – 10/2014 Urbino, Italy

BACHELOR'S DEGREE IN BIOLOGICAL SCIENCES University of Study of Urbino

Thesis: "Development of a Real Time PCR Platform (TotUFsys) for the Quantification of viral DNA in Blood of HIV-1 Infected Patients"
110/110

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

imageJ | FlowJo | Microsoft Office | UCSC genome browser | primer3 primers design | BD FACSDiva™ Software | graphpad prism | 4peaks | Fiji

ADDITIONAL INFORMATION

PUBLICATIONS

NF-YA enters cells through cell penetrating peptides – 2019

Libetti D et al, Biochim Biophys Acta Mol Cell Res, 2019

Libetti D et al, Cells 2020

Poster

- "Simultaneous quantification of total, unintegrated and integrated HIV-1 DNA as a marker to monitor therapeutic efficacy and to predict viral rebound", A. Casabianca, C. Orlandi, B. Canovari, **D. Libetti**, M.B.L. Rocchi and M. Magnani. University of Urbino. Meeting: ICAR 2016, Milan, Italy. 6-8 June 2016.
 - "The role of NF-YA phosphorylation in CCAAT-dependent transcription", A. Bernardini, V. Nardone, M. Lorenzo, **D. Libetti**, M. Nardini, R. Mantovani and N. Gnesutta. University of Milan. Meeting: EMBL, Heidelberg, Germany. 27-30 August 2016.
 - "Role of NF-YA short isoform by exon deletion in mouse Embryonic Stem Cells", **D. Libetti**, R. Mantovani and D. Dolfini. University of Milan. Meeting: AGI, Cortona 2017.
 - "Role of NF-YA Isoforms in mouse Embryonic Stem Cells", **D. Libetti**, R. Mantovani and D. Dolfini. University of Milan. Meeting: 6th Cambridge International Stem Cell Symposium, Cambridge, 19-21 September 2018.
 - "Role of NF-YA isoforms in mouse Embryonic Stem Cells", **D. Libetti**, R. Mantovani and D. Dolfini. University of Milan. Meeting "MyDEV 2019", Milano, 16 May 2019. "**Best poster**" award.
 - "Netrin-1 signalling activity dynamic and cell cycle regulation in mouse embryonic stem cells", **D. Libetti**, N. Cornberelet, H. Lincet, M. Ruel, F. Laviai. CRCL. Meeting "FSSCR Annual meeting 2021", Montpellier.
 - "Neo1 interacts with RGMA to regulate Embryo morphogenesis during Peri-implantation stage", **D. Libetti**, E. Cascales, E. Fraimbault, F. Laviai. CRCL. Meeting "5th International Cancer Symposium", 2-4 November 2022 Lyon.
-

CONFERENCES AND SEMINARS

06/06/2016 – 08/06/2016 – Milan

Italian Conference on AIDS and Antiviral Research (ICAR)

07/05/2018 – Milan

MyDEV 2018

19/09/2018 – 21/09/2018 – Cambridge

6th Cambridge International Stem Cell Symposium

17/01/2019 – 18/01/2019 – Milan

Kick-off Meeting

16/05/2019 – Milan

MyDEV 2019 Best poster presentation award

14/06/2019 – Turin

Single Cell Revolution 2.0

18/09/2019 – 21/09/2019 – Bologna

ABCD Congress

23/09/2019 – 24/09/2019 – Milan

European Organoids Symposium

10/10/2021 – Lyon

AuraStem

16/05/2022 – 17/05/2022

AuraStem2022

02/11/2022 – 04/11/2022 – Lyon

5th International Cancer Symposium

03/05/2023 – Lyon

AuraStem2023

ORGANISATIONAL SKILLS

Organisational skills

- Training students during "Biomolecular Methods Laboratory" practice held in "University of Study of Urbino".
- Training students during "Molecular Genetics Laboratory" practice held in "University of Study of Milan".
- Thesis advisor for degree students in Mantovani's lab, "University of Study of Milan".
- Tutoring for degree students in Mantovani's lab, "University of Study of Milan".
- Tutoring activities and support for laboratory teaching (Biological science L-13) "University of Study of Milan".

JOB-RELATED SKILLS

Job-related skills

Scientific experiences

- 2013-2014: 500 hours training at Laboratory of Anna Casabianca, Biomolecular Sciences Department - University of Study of Urbino, and participation in the research project (see acknowledgment): "A Real-Time PCR Platform for the simultaneous quantification of Total and Extrachromosomal HIV DNA forms in blood of HIV-1 infected patients", Casabianca A, Orlandi C, Canovari B, Scotti M, Acetoso M, et al. PLoS One. 2014; 9(11): e111919, doi: 10.1371/journal.pone.0111919.
- 2015: 150 hours training at laboratory of Roberto Mantovani, Biosciences Department -University of Study of Milan.
- 2015-2016: Degree training at laboratory of Roberto Mantovani, Biosciences Department -University of Study of Milan.
- 2016: PhD School in "Molecular and Cellular Biology", Laboratory of Roberto Mantovani, Biosciences Department -University of Study of Milan.

Job-related skills:

Experienced in planning, developing and analysing experiments of:

- RNA Immunoprecipitation (RIP) to study the interaction between the long-non coding RNA PANDAR and the Transcription Factor (TF) NF-Y, Co-immunoprecipitation (Co-IP) to discriminate specific interactors of the two NF-YA isoforms, Chromatin Immunoprecipitation (ChIP) and DNA purification by using Phenol/Chloroform strategy to identify specific NF-YA targets.
- Differentiation of C2C12 cells into myotubes and mouse Embryonic Stem Cells (mESCs) (Cardiac differentiation by Embryoid Bodies formation, EpiLC differentiation) to study the different function of the two NF-YA isoforms in stemness maintenance and during the differentiation process.
- Blastoid derivation from mouse Embryonic Stem cells, 3D staining and analysis of the results.
- Guide-RNAs design for Genome-editing by using the CRISPR-Cas9, analysis of off-target sites, cloning and cells transfection, single clone picking, in order to obtain NF-YA-exon-3 editing (which codifies for the NF-YA long protein isoform).
- Cell Transfection by using different methods: Lipofectamine, PEI, Electroporation, Viral infection.
- Immunofluorescence staining of cell cultures and images acquisition by using the inverted Microscope Leica DMI6000 B.
- Production and transformation of Bacterial competent cells.
- Traditional cloning strategy for protein (Inclusion bodies purification and proteins re-folding) and DNA production for cell transfection.
- Gel-Shift Assay to check for protein functionality in vitro and in vivo (nuclear extract samples).
- Development and Optimization of a Real-Time qPCR Assay.
- RNA and DNA extraction, quantification and analysis.
- Primers design for RT, qRT-PCR and qPCR on ChIP experiments.
- Total protein extraction, protein fractionation, Histones extraction and Western Blot analysis.
- DNA extraction from human blood and murine tissues with Phenol-Chloroform method.
- Column chromatography by QIAprep mini, midi and maxi-prep.

COURSES

06/06/2016

The virological premises for clinical success

11/01/2017

Molecular and Cellular Biology: Methods and Communication

20/02/2017 - 21/02/2017

Epigenetic mechanisms and their relevance for human pathology

03/04/2017 - 07/04/2017

Chromosomal Conformation

18/07/2017 - 20/07/2017

Training Course on RNA-Seq data analysis

07/09/2017 - 08/09/2017

Host- pathogen interaction

30/07/2018 - 03/08/2018

Tissue Engineering Course: From Stem Cells to Organoids
