

Curriculum Vitae et Studiorum

Personal

Name: **Daniela Perra**

Date and place of birth: **October 8th 1982, Cagliari (Italy)**

Citizenship: **Italian**

Marital status: **Single**

Work address: **Cittadella Universitaria, University of Cagliari, Department of Biomedical Sciences, ss 554, Km 4,550 09042 Monserrato (CA) Sardinia, Italy,**

E-mail: daniperra@unica.it

Present position

2012– present: PhD-student “R&D of Antinfectives Drugs” at the University of Cagliari, Department of Biomedical Sciences, Section of Microbiology and Virology.

Supervisor: **Prof. Alessandra Pani**

Education

2013: Qualification as a professional biologist

2011: Master of Science in Experimental and Applied Biology, University of Cagliari (Italy).

Grade: **110/110 “summa cum laude”**

Thesis: **“Pathogenesis of prion diseases and lipid disorders. Part I. Analysis of cholesterol and fatty acid content in brains from scrapie affected Sardinian sheep”.**

Supervisor: **Professor Pani Alessandra**

Thesis description: The aim of the study was to ascertain the potential mechanistic link between cerebral lipid modifications and the pathogenesis of ovine scrapie

2009: Bachelor’s Degree in Experimental Biology, University of Cagliari (Italy).

Grade: **110/110 “summa cum laude”**

Thesis: **“The tissue localization of trkA tyrosine kinase receptor in human cerebellum by ABC immunohistochemical assay”**

Supervisor: **Professor Quartu Marina**

Thesis description: The aim of the study was to ascertain the distribution of NGF receptor, the trkA, in human cerebellum by avidin-biotin method

Graduate & Post-graduate training

2013-present: Pre-doctoral Visiting Fellow at NIAID-NIH at Rocky Mountain Lab, Hamilton (MT)

2012: Training courses in "Biosafety procedures" and in "Radioprotection" at the University of Cagliari.

2011-2012: Post-degree apprenticeship in the laboratories of the Microbiology and Virology Section, Department of Biomedical Sciences, University of Cagliari (**4 months**).

2010-2011: Thesis internship in the laboratories of the Microbiology and Virology Section, Department of Biomedical Sciences, University of Cagliari (**2 year**).

2010: Thesis internship in the laboratories of Cytomorphology Section, Department of Biomedical Sciences, University of Cagliari (**6 months**).

Laboratory Techniques

- Work conditions in BL2 and BL3 laboratory.
- Cell cultures procedures:
 - isolation of PBMC from blood samples
 - isolation of dermal fibroblasts from skin biopsies;
 - cultivation of human and animal cell lines;
 - cell lysate preparation for western blot of prion infected cells (mouse neuroblastoma cell line, N2a)
 - cultivation and conservation of prion infected cells
 - cryogenic cell preservation;
 - growth and preservation of bacterial stock
 - cell subline cloning.
- Cytotoxicity and cell viability assays:
 - MTT method;
 - trypan blue exclusion method;
- Lipid assays:
 - lipid extraction from cells and brain tissue (Folch)
 - lipid separation (Thin Layer Chromatography)
 - lipids quantification (Enzymatic colorimetric/fluorescent kit)
- Protein assays:
 - IPTG induction of recombinant protein on E.Coli bacteria
 - extraction of insoluble (Inclusion-Body) proteins from E.Coli bacteria
 - protein purification: affinity (Immobilized Metal Affinity Chromatography, IMAC) and Ion Exchange (IEX) chromatography
 - Coomassie Blue, gel staining method
 - western and dot blot;
 - Real-time quaking-induced conversion (RT-QuIC) assay

Languages

Italian: mother tongues

English: basic

Computer skills

WINDOWS; MS WORD, MS EXCEL, MS POWER POINT, ADOBE PHOTOSHOP

Teaching experience

- **2012-2013.** Assistency in laboratory experiences of virology techniques for undergraduate students, University of Cagliari.

Publications

T. Pivetta, F. Isaia, F. Trudu, A. Pani, M. Manca, **D. Perra**, F. Amato and J. Havel. Development and validation of a general approach to predict and quantify the synergism of anti-cancer drugs by using Experimental Design and Artificial Neural Networks. (*Talanta*, **2013**, in press)

International Seminars & Congresses

M. Manca, T. Pivetta, F. Isaia, F. Trudu, **D. Perra**, F. Spiga, F. Amato, J. Have, A. Pani. Synergistic cytotoxicity of copper(II) complexes in combination with cisplatin: an application of artificial neural networks and experimental design. 12th FISV Congress, September 24-27, **2012**, Rome, Italy.

P. Farci, F. Trudu, T. Pivetta, F. Spiga, **D. Perra**, F. Isaia, E. Antoniotti, M.G. Cabiddu and A. Pani. Mixed thiophene-phenanthroline Cu (II) complexes: synthesis, antiviral and antiproliferative activity. 11th National Congress of the Italian Society for Virology, 17-19 September **2012**, Orvieto, Italy.

T. Pivetta, F. Isaia, F. Trudu, A. Pani, M. Manca, **D. Perra**, F. Amato, J. Havel. Synergistic effects of copper(II) complexes and cisplatin: an application of artificial neural networks and experimental design" ISMEC congress, 18-22 June **2012**, Lisbon (Portugal).

Manca M, Pivetta T, Isaia F, Trudu F, **Perra D**, Spiga F, Amato F, Have J, Pani A.

Farci P, Trudu F, Pivetta T, Spiga F, **Perra D**, Isaia F, Antoniotti E, Cabiddu MG and A. Pani

Pivetta T, Isaia F, Trudu F, Pani A, Manca M, **Perra D**, Amato F, Havel J.

References

Professor Alessandra Pani

Associate Professor of Microbiology & Virology, Department of Biomedical Sciences, Microbiology and Virology Section, University of Cagliari, Italy.

Phone: +39 070 675 4209, Fax: +39 070 675 4210

e-mail: pania@unica.it

Professor Marina Quartu

Associate Professor of Anatomy, Department of Biomedical Sciences, Cytomorphology Section, University of Cagliari, Italy.

Phone: +39 070 675 4084

e-mail: quartu@unica.it

Professor Paolo La Colla

Full Professor of General Microbiology of the Department of Biomedical Sciences, Microbiology and Virology Section,, University of Cagliari Italy.

Phone: +39 070/675 4147 Fax: +39 070/675 4210

e-mail: placolla@unica.it

I here state that the information reported in this Curriculum Vitae are correct and truthful for the purposes and the effects of the 35 of the D.P.R. 445/2000 (Italy).

I authorize the use of the personal information, including the sensitive data, under and for the effects of the decree law 196/2003 (Italy) for the purposes related to this announcement.

Date and place

~~March 25th 2014~~, Cagliari (Italy)

Gennaio 15, 2015
Cagliari, Italy

Daniela Perra, Ph.D. student

