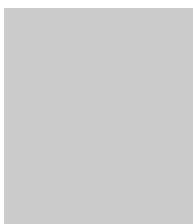


PERSONAL INFORMATION

Cristina Cerqua



 Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy

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 www.cittadellasperanza.org

JOB APPLIED FOR
POSITION

Biomedical Research in public or private institutes

PERSONAL STATEMENT

Cellular Biology PhD

WORK EXPERIENCE

from 02/05/2016 to 31/07/2016

Short term contract

Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy

- Role in the project "The mitochondrial respiratory chain: unveiling its biogenesis and its regulation to develop novel therapeutic approaches for fatal infantile mitochondrial diseases"

Business or sector Research

from 01/12/2014 to 30/04/2016

Short term contract

Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy

- Role in the project "The mitochondrial respiratory chain: unveiling its biogenesis and its regulation to develop novel therapeutic approaches for fatal infantile mitochondrial diseases"

Attività o settore Research

from 15/05/2012 to 30/11/2014

Post-Doctoral fellowship

Padua hospital, Via Giustiniani, 1, 35128, Padua

- Role in the project "Pathogenesis of coenzyme Q10 Deficiency" for the structural and functional analysis of coenzyme Q10 biosynthetic complex in human cells, and for the development of cellular and animal (Zebrafish) models displaying coenzyme Q10 deficiency.

Attività o settore Research

from 01/05/2010 to 30/04/2012

Post-Doctoral fellowship

University of Padua, department of Woman and Child Health, Via Giustiniani, 3

- Role in the project: "Functional analysis of COQ6 first mutations identified in patients affected by coenzyme Q10 deficiency and characterization of COQ6 role in human CoQ10 biosynthesis. Use of Molecular Biology techniques, RT-PCR, Cell cultures and Flow Cytometry, yeast and Zebrafish

Attività o settore Research

from 01/01/2007 to 31/12/2009

PhD program in "Cellular Biology"

University of Padua, Dulbecco Telethon Institute, Venetian Institute of Molecular Medicine
PhD Thesis title : *"Analysis of the interaction of mitochondria and ER with the cytoskeleton : from cellular to animal models"* :

- Techniques of Molecular Biology
- Manipulation of Cell cultures for Imaging and Biochemical Assays
- Confocal Microscopy and reprocessing of images in 3D
- Protein Extraction, Western Blot and Subcellular Fractionation
- Flow Cytometry Techniques for cell death Analysis
- Use of mouse as animal model

Attività o settore Research

from 01/12/2003 to 30/09/2004

Research fellowship

Dulbecco Telethon Institute, Venetian Institute of Molecular Medicine

- Cell cultures
- Cells Transfection techniques
- Real-time lapse Imaging, use of Confocal Microscopy
- Electrophoresis on agarose gel

Attività o settore Research

EDUCATION AND TRAINING

April 2016

Continuing education course "Use of pressurized and cryogenic gas"

SIAD

- Pressurized liquefied and dissolved gas for industrial applications and systems for their storage and use

18/12/2015

Continuing education course for workers – low risk

ETC Engineering Srl

- Accident risks, general mechanicals, general electricals, equipment, explosion and chemical risks, labelling, biological risks, microclimate and lighting, visual display units, DPI, work organization and environments, work-related stress, movement of cargo, signage, emergencies, security procedures involving the specific risk profile. Procedures of exodus and fires, organizational procedures for the medical aid, lacking accidents and on-the-job injuries.

12/03/2010

PhD program in "Cellular Biology"

University of Padua

- Analysis of the interaction of mitochondria and ER with the cytoskeleton : from cellular to animal models

from 11/09/2008 to 14/09/2008

Imaging course applied to the biomedical research

First Symposium "Image Mining", Obergurgl (Tyrol/Austria)

05/11/2008

1° continuing education course for the access to the animal breeding department

V.I.M.M. – Venetian Institute of Molecular Medicine

- Current regulations for S.P.F. and conventional animal breeding departments; rules and operative procedures for the access to the I.O.V S.P.F. and V.I.M.M. conventional animal breeding departments

20/11/2006

Degree of second level in Biomedical Biology, 107/110

School of Sciences MM.FF.NN., University of Padua

- Trichoplein, a novel keratin-binding protein, localizes on the outer mitochondrial membrane. 107/110

19/11/2003

Degree of first level in Molecular Biology, 93/110

School of Sciences MM.FF.NN., University of Padua

from 09/1995 to 07/2000

- Role of cAMP in mitochondrial fusion and fission processes. 93/110

Qualifying Examination (91/100)

L. Da Vinci Institute, Arzignano (VI)

09/1997

Course of applied informatics

- Use of main operating systems (MS-DOS, Microsoft Windows 3.1, Java).

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	C2	C1
French	B1	C2	A2	A2	A2
German	A1	A1	A1	A1	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- Ability to adapt to different work environments and to the professional partnership

Organisational / managerial skills

- Good ability to organize and plan a work project

Job-related skills

Cellular Biology

Use of primary and immortalized cell cultures; transfection techniques; immunofluorescence; fluorescent confocal microscopy of live or fixed cells; Flow Cytometry.

Molecular Biology

DNA electrophoresis on agarose gel; PCR amplification, cloning and DNA site-specific mutagenesis; subcloning genes into TOPO TA vectors or through enzymatic digestion; RT-PCR; DNA and RNA extraction from bacteria, cells and animal tissues; retrotranscription of RNA into cDNA.

Biochemistry

Protein extraction from cells; SDS-PAGE and immunoblot; cell cultures and animal tissues subfractionation; ELISA; protein localization assays; immunoprecipitation.

Handling of model organisms

M. musculus: genetically modified mice breeding; PCR genotyping; biochemical and histological analysis of animal tissue samples; analysis of paraffin tissue slices using the ematossilin and eosin staining;

S. cerevisiae: growth of yeast colonies on solid and liquid media; transformation with Lithium Acetate; functional complementation assay; two hybrid test.

Zebrafish: fish mating and breeding; eggs collection and DNA microinjection for gene silencing; RNA extraction from embryos; embryos fixing; synthesis of anti-sense probes; histochemistry and *in situ* hybridization; microscopy and image acquisition; RNA messenger synthesis.

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Basic user	Basic user	Basic user	Basic user	Basic user

Levels: Basic user - Independent user - Proficient user
 Digital competences - Self-assessment grid

Good ability to use programs for results processing and images definition [Office (Microsoft Word, Excel and Powerpoint), Origin, Corel Photo-Paint, CorelDRAW, Gel-Pro Analyzer, PerlPrimer, ImageJ, Chromas]

Driving licence B

ADDITIONAL INFORMATION

De Rocco D, Cerqua C, Goffrini P, Russo G, Pastore A, Meloni F, Nicchia E, Moraes CT, Pecci A, Salviati L, Savoia A.
Mutations of cytochrome c identified in patients with thrombocytopenia THC4 affect both apoptosis and cellular bioenergetics.
Biochim Biophys Acta. 2013 Dec 7

A. Casarin, G. Giorgi, V. Pertegato, R. Siviero, C. Cerqua, M. Doimo, G. Basso, S. Sacconi, M. Cassina, R. Rizzuto, S. Brosel, M.M. Davidson, S. DiMauro, E.A. Schon, M. Clementi, E. Trevisson and Leonardo Salviati.
Copper and bezafibrate cooperate to rescue cytochrome c oxidase deficiency in cells of patients with sco2 mutations.
Orphanet Journal of Rare Diseases. 2012 Apr 19;7(1):21

C. Cerqua, V. Anesti, A. Pyakurel, D. Liu, D. Naon, G. Wiche, R. Baffa, K. S. Dimmer and Luca Scorrano.
Trichoplein/Mitostatin regulates endoplasmic reticulum-mitochondria juxtaposition.
EMBO Rep. 2010;11: 854-60.

Presentations

"Trichoplein/mitostatin regulates endoplasmic reticulum-mitochondria juxtaposition".
9° Annual Retreat of Venetian Institute of Molecular Medicine, Marostica, 12-13 november 2010.

Cerqua C., Anesti V., Dimmer K. S., Baffa R. and Luca Scorrano. "Trichoplein, a keratin-binding protein, participates in mitochondrial morphology and dynamics".
Annual meeting GIBB-ABCD 2007, Aci Trezza (Catania), 23-26 june 2007.

Conferences

8° Conference of the International Coenzyme Q10 Association, Bologna, October 8-11, 2015.
Cristina Cerqua, Alberto Casarin, Leonardo Salviati and Eva Trevisson. "Vitamin K2 cannot substitute Coenzyme Q10 as electron carrier in the mitochondrial respiratory chain of mammalian cells "

Invasive and non-invasive prenatal diagnosis: technological innovations and recent scientific acquisitions, 14-15 may 2015 Pediatric Research Institute, Corso Stati Uniti 4, 35127 Padua, Italy

Euromit 2014, the International Meeting on Mitochondrial Pathology, Tampere, Finland, 15-19 June 2014. Cristina Cerqua, Alberto Casarin, Leonardo Salviati and Eva Trevisson. "Vitamin K2 cannot substitute Coenzyme Q10 as electron carrier in the mitochondrial respiratory chain of mammalian cells "

7° Conference of the International Coenzyme Q10 Association, Seville, November 8-11, 2012

Mitochondrial Dynamics: from Mechanism to Disease, 11-15 settembre, Cagliari. C. Cerqua, P. Di Crescenzo, A. Savoia and Leonardo Salviati. "Functional characterization of cytochrome c mutations".

Annual Meeting of PhD ABCD, 18-20 june 2009, Gubbio. Cerqua C., Anesti V., Dimmer K. S., Baffa R. and Luca Scorrano. "Trichoplein/mitostatin, a novel protein at the cross road between mitochondria and intermediate filaments".

Keyston Simposia on Mitochondrial Dynamics and Physiology, 22/03/2009-27/03/2009, TELUS Whistler Conference Centre.

Meeting in honour of Stefano Schiaffino, Regulatory Mechanisms in Striated Muscles, 11-12 december, Biomedical Sciences Department, University of Padua.

6° Annual Retreat of Dulbecco Telethon Institute, 21-23 october 2008, Bardolino.

1° Image Mining Symposium, Obergurgl: 11-14 september 2008. Cerqua C., Anesti V., Dimmer K. S., Baffa R. and Luca Scorrano. "Trichoplein, a novel filament-binding protein, localizes in mitochondria-associated membranes".

Baffa R. and Luca Scorrano. "Trichoplein, a keratin-binding protein, participates in mitochondrial morphology and dynamics".

