

Curriculum Vitae

Cristina Grande

Place and date of birth: Savigliano, Cuneo, Italy, 06/15/1983

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GRADUATE STUDIES

2002 – today UNIVERSITY OF TURIN, SCHOOL OF MEDICINE

2002 – 2005

Undergraduate student

University of Turin, School for Medical Biotechnology

Bachelor degree in Biotechnology (graduated with 100/110)

Title of the thesis: Cell-mediated inhibition of the immune anti-tumor response.

Thesis director: Prof. Massimo Massaia and Prof. Mario Boccardo (Division of Hematology, Laboratory of Onco-hematology, CeRMS, San Giovanni Battista Hospital, Turin)

2005 – 2008

Master student

University of Turin, Faculty of Medicine, School for Medical Biotechnology

Master degree in Biotechnology (graduated with 103/110).

Title of the thesis: Role of the hypothalamus hormones GHRH and Somatostatin in endometriosis (Worth of publication).

Thesis director: Dott.ssa Riccarda Granata and Prof. Ezio Ghigo (Department of Internal Medicine, Laboratory of Cellular and Molecular Endocrinology, San Giovanni Battista Hospital, Turin)

05/2006 – 05/2009

Internal graduate student

Department of Internal Medicine, Division of Endocrinology and Metabolism, Laboratory of Molecular and Cellular Endocrinology, University of Turin.

Research project: Role of the hypothalamus hormones GHRH and Somatostatin in endometriosis.

Supervisor: Dott.ssa Riccarda Granata and Prof. Ezio Ghigo

06/2009 – 12/2009

Internal graduated student

Department of Internal Medicine, Division of Endocrinology and Metabolism, Laboratory of Molecular and Cellular Endocrinology, University of Turin.

Research project: Effects of the *ghrelin* gene products (ghrelin, des-acyl ghrelin and obestatin) on glucose and free fatty acid metabolism in C2C12 mouse muscle cell line.

Supervisor: Dott.ssa Riccarda Granata

1/2010 – today

PhD Student

Doctoral school in life and health sciences, Department of Internal Medicine, Division of Endocrinology and Metabolism, Laboratory of Molecular and Cellular Endocrinology, University of Turin.

Research project: “Effects of the *ghrelin* gene products (ghrelin, des-acyl ghrelin and obestatin) on glucose and free fatty acid metabolism in C2C12 mouse muscle cell line”.

Supervisor: Dr. Riccarda Granata, Prof. Ezio Ghigo

06/2011 – 08/2011

External Graduate Student

Department of Cellular Biology, Physiology and Immunology, University of Cordoba, Cordoba, Spain.

Objective of the permanence: Learning and practicing *in vivo* rodents handling procedures.

Supervisors: Prof. Justo Castano and Dott. Raul Luque.

04/2012 – 12/2012

External Graduate Student

Department of Metabolism and Aging, Scripps Research Institute, Jupiter, Florida (USA)

Objective of the permanence: Development of biochemical and cell-based assays to monitor GPCR activities.

Supervisor: Prof. Roy Smith.

SCIENTIFIC ACTIVITY

Peer reviewer for the Journal of Endocrinological Investigation

09/2006 – 09/2009 Tutor at the Biotechnology Foundation, Villa Gualino (Turin), for the Bio e-learning's project. Organization of theoretic lessons and practice activities in a laboratory for students of elementary, middle and high school. Supervisor: Elena Spoldi

TRAINING COURSES

- Course of bibliographic research and databases, Prof. A. Caselle, University of Turin, September 2011.
- Training for *in vivo* work in the Department of Cellular Biology, Physiology and Immunology, University of Cordoba, Spain. From June 2011 to August 2011. Supervisors: Prof. Justo Castano and Dott. Raul Luque.
- Course of statistical analysis, prof. P. Provero, University of Turin, Molecular Biotechnology Center, Turin, February 2012
- Confocal training, Angie Stewart from Hunt Optics, Metabolism and Aging Department, Scripps Research Institute (FL, USA), September 2012
- Controlled substances program: roles and responsibilities, Peter Norris, Director of Environmental Health & Safety, Scripps Research Institute, (FL, USA), October 2012
- Chemical hygiene training class, Carol M Swete, Safety Coordinator, Environmental Health & Safety, Scripps Research Institute (FL, USA), November 2012
- Training for *in vivo* work: Mouse genetic background and the importance of genetic stability and nomenclature; Colony management and breeding strategies; Advanced Cre-Lox and other recombination/conditional systems: manipulating gene expression in mice; Modeling human cancer-endogenous & engrafted immunodeficient mouse model; Ronald Carrillo, PhD, representative for the Jackson Laboratory, Scripps Research Institute, (FL, USA), October 2012

LANGUAGES

Italian: native speaker

English: good knowledge of written and spoken English (Preliminary English Test passed with merit)

COMPUTER KNOWLEDGES

Microsoft Office, GraphPad Prism, Adobe Illustrator and Photoshop.

TECHNICAL EXPERTISE

Cell culture

- maintenance of different models of cell lines (muscular, adipocyte, endometrial, pancreatic cell lines)
- isolation and culture of primary cells from multiple tissues: endometrial cells from human endometriotic explants; murine pancreatic islets; adipocytes from human and murine tissues (subcutaneous and visceral tissue); muscle cells from mice
- transfection of cell lines for transient protein expression

Cellular, biochemical and metabolic assays

- evaluation of gene expression with qualitative, quantitative and semiquantitative PCR
- western blotting
- evaluation of cellular viability (trypan blue, MTT, Alamar blu), cellular proliferation (5-bromo-2-deoxyuridine), cellular apoptosis (Hoescht, caspasi-3 activation)
- evaluation of cAMP production (ELISA)
- glucose uptake using [³H]-2-Deoxyglucose and fluorescence-based assays
- free fatty acid uptake using fluorescence-based assay
- evaluation of insulin release (RIA, ELISA)
- immunofluorescence

In vivo (mice)

- handling animals
- Glucose and Insulin Tolerance Test (GTT, ITT)
- evaluation of food intake
- intraperitoneal injections and gastric treatments
- genotyping from mouse tail
- surgery and collection of different tissues

FELLOWSHIP(s)

1) Fellowship: Department of Internal Medicine, San Giovanni Battista Hospital, University of Turin, Turin. From June 2009 to December 2009.

2) Fellowship from the Ministry of Education, University and Research, Doctoral school in life and health sciences, Department of Internal Medicine, Division of Endocrinology and Metabolism, Laboratory of Molecular and Cellular Endocrinology, University of Turin. From January 2010 to December 2012

PUBLICATIONS

- Annunziata M, **Grande C**, Scarlatti F, Deltetto F, Delpiano E, Camanni M, Ghigo E, Granata R. The growth hormone-releasing hormone (GHRH) antagonist JV-1-36 inhibits proliferation and survival of human ectopic endometriotic stromal cells (ESCs) and the T HESC cell line. *Fertil Steril*. 2010 Aug;94(3):841-9. Epub 2009 Jun 12. Pubmed PMID: 19524226
- Somatostatin and somatostatin analogues reduce PDGF-induced endometrial cell proliferation and motility. Annunziata M, Luque R, Duran-Prado M, Baragli A, **Grande C**, Gahete MD, Deltetto F, Camanni M, Ghigo E, Castano J, Granata R. *Human reproduction*, 2012 May 15
- Obestatin regulates adipocyte function and protects against diet-induced insulin resistance and inflammation. Granata R, Gallo D, Luque R, Baragli A, Scarlatti F, **Grande C**, Gesmundo I, Cordoba-Chacon J, Bergandi

L, Settanni F, Togliatto G, Volante M, Garetto S, Annunziata M, Chanclon B, Gargantini E, Rocchietto S, Matera L, Datta G, Morino M, Brizzi MF, Ong H, Camussi G, Castano J, Papotti M, Ghigo E. *FASEB J*, 2012 May 17

Submitted

- Obestatin enhances in vitro generation of pancreatic islets through regulation of developmental pathways. Baragli A, **Grande C**, Gesmundo I, Settanni F, Taliano M, Gallo D, Gargantini E, Ghigo E, Granata R.

In preparation

- Effects of the *ghrelin* gene products on glucose and free fatty acid metabolism in C2C12 muscle skeletal cells. **Grande C**, Settanni F, Taliano M, Baragli A, Gargantini E, Ghigo E, Granata R.
- Effects of the *ghrelin* gene products on pancreatic islets and β -cell survival and function in conditions of glucolipototoxicity. **Grande C**, Scarlatti F, Settanni F, Ghigo E, Granata R.
- Growth hormone secretagogue receptor (GHSR1a) and ghrelin knockout mice: pancreatic islets and pancreatic β -cells function and survival. **Grande C**, Settanni F, Scarlatti F, Taliano M, Ghigo E, Granata R.

ATTENDANCE TO SCIENTIFIC MEETINGS

- Meeting of Young Italian Endocrinologist (EnGioI), Modena, November 2011, *oral session*
- 35° National Congress of Endocrinology, Montesilvano d'Abruzzo, May 2011, *poster*
- European Congress of Endocrinology, Rotterdam, April/May 2011, *poster*
- Giornate Endocrinologiche Pisane, Pisa, June 2010, *oral poster session*