

CURRICULUM VITAE

Elisa Ruffo

PERSONAL INFORMATION

Elisa Ruffo



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Skype elisa.ruffo89

Sex Female | Date of birth 21/05/1989 | Nationality Italian

CURRENT POSITION

7/2017-PRESENT

Post Doc fellow

Università Vita e Salute San Raffaele, Division of Oncology, laboratory of Lipid signaling in Cancer and Metabolism, Milano (Italy).

Project title: Regulation of Diacylglycerol kinase enzymatic activity and its role in the intracellular trafficking of transmembrane receptors.

WORK EXPERIENCE

10/2017-12/2017

Graduate teaching assistant

Teaching Chemistry, degree Medical school Università Vita e Salute San Raffaele, Milan, Italy

06/2017-02/2018

Graduate teaching assistant

Teaching Chemistry and Biology, degree course in Sanitary Professions at Università del Piemonte Orientale, Novara, Italy

05/2017

Tutoring

Laboratory of Cryopreservation and Cell culture, degree in Biotechnologies at Università del Piemonte Orientale, Novara, Italy

01/2017

Graduate teaching assistant

Teaching Chemistry and Biology, degree course in Laboratory Technician, Physiotherapy and Dental Care at Università del Piemonte Orientale, Novara, Italy

01/2016- 12/2016

Visiting PhD student for a collaboration research project

Attended the laboratory of Prof. Andrew L. Snow at USUHS, Bethesda (USA)

11/2015- 01/2016

Tutoring

Biochemistry Tutor, Laboratory of Biochemical Methodologies and Proteomics, degree in Biotechnologies, Department of Health Sciences of the Università del Piemonte Orientale

01/2015- 10/2017

PhD student representative

Student Representative at the Department of Translational Medicine, Università del Piemonte Orientale

09/2014-04/2015

Graduate teaching assistant /Tutoring

Stoichiometry Tutor, Chemistry and Propaedeutic Biochemistry, School of Medicine, Università del Piemonte Orientale

Chemistry Tutor, Chemistry and Propaedeutic Biochemistry, degree course in Nursing, Università del Piemonte Orientale

09/2011-07/2013

Traineeship

Laboratory of Biochemistry and Molecular Biology, Dept. of Translational Medicine, Università del Piemonte Orientale A. Avogadro, Novara (Italy)

07/2012-09/2012

Collaboration for a research project

Attended the laboratory of Prof. Andrew L. Snow at USUHS and of Pam Schwartzberg at NIH in Bethesda (USA) funded by a scholarship issued by the Università del Piemonte Orientale, Novara (Italy)

09/2010-07/2011

Under-graduate internship

Laboratory of Biochemistry and Molecular Biology, Dept. of Translational Medicine, Università del Piemonte Orientale, Novara (Italy)

EDUCATION AND TRAINING

- 04/04/2017 **PhD in Medical Sciences and Biotechnology**
Università del Piemonte Orientale, Dept. of Translational Medicine, laboratory of Biochemistry and Molecular Biology, Novara (Italy).
Dissertation's title: Regulation of Diacylglycerol Kinase α in controlling activated T cell fate
- 07/10/2013 **Master Degree in Medical Biotechnologies (110/110 cum laude)**
Università del Piemonte Orientale, Novara (Italy)
Thesis's title: Inhibition of Diacylglycerol kinase α rescues restimulation induced cell apoptosis in XLP T lymphocytes
- 07/14/2011 **Bachelor Degree in Biotechnologies (110/110 cum laude)**
Università del Piemonte Orientale, Novara (Italy)
Discussion based on the role of different isoforms of DGK (diacylglycerol kinase) in migration and proliferation in Kaposi's sarcoma cells (Baldanzi et al., 2011)

SCIENTIFIC PUBLICATIONS

- 2018 **Novel Diacylglycerol kinase α inhibitors for X-linked lymphoproliferative disease 1 therapy**
Suresh Velnati*, **Elisa Ruffo***, Alberto Massarotti*, Maria Talamon, Konduru Sai Sandeep Varma, Alessandro Gesu, Luigia Grazia Fresu, Andrew Snow, Alessandra Bertoni, Daniela Capello, Gian Cesare Tron, Andrea Graziani, Gianluca Baldanzi
*These authors contributed equally to this work
Manuscript in preparation.
- 2018 **β 1 integrin signaling drives RICD through a mechanism coordinating SAP-dependent DGK α inhibition and actin polymerization.**
Elisa Ruffo, Gianluca Baldanzi, Andrea Graziani# and Andrew L. Snow#. # These authors contributed equally to this work
Manuscript in preparation.
- 06/19/2017 **Germline hypomorphic CARD11 mutations in severe atopic disease.**
Ma CA, Stinson JR, Zhang Y, Abbott JK, Weinreich MA, Hauk PJ, Reynolds PR, Lyons JJ, Nelson CG, **Ruffo E**, Dorjbal B, Glauzy S, Yamakawa N, Arjunaraja S, Voss K, Stoddard J, Niemela J, Rosenzweig SD, McElwee JJ, DiMaggio T, Stone KD, Palma A, Oleastro M, Prieto E, Bernasconi A, Dubra G, Danielian S, Zaiat J, Marti M, Kim B, Cooper MA9, Romberg N, Meffre E, Gelfand EW, Snow AL, Milner JD1.
Nat Genet. 2017 Aug;49(8):1192-1201. doi: 10.1038/ng.3898. Epub 2017 Jun 19.
PMID: 28628108
- 01/13/2016 **Inhibition of diacylglycerol kinase α restores restimulation-induced cell death and reduces immunopathology in XLP-1.**
Ruffo E, Malacarne V, Larsen SE, Das R, Patrussi L, Wülfing C, Biskup C, Kapnick SM, Verbist K, Tedrick P, Schwartzberg PL, Baldari CT, Rubio I, Nichols KE, Snow AL, Baldanzi G, Graziani A.
Sci Transl Med. 2016 Jan 13;8(321):321ra7. doi: 10.1126/scitranslmed.aad1565.
- 06/2/2014 **The diacylglycerol kinase α /atypical PKC/ β 1 integrin pathway in SDF-1 α mammary carcinoma invasiveness.**
Rainero E, Cianflone C, Porporato PE, Chianale F, Malacarne V, Bettio V, **Ruffo E**, Ferrara M, Benecchia F, Capello D, Paster W, Locatelli I, Bertoni A, Filigheddu N, Sinigaglia F, Norman JC, Baldanzi G, Graziani A.
PLoS One. 2014 Jun 2;9(6):e97144. doi: 10.1371/journal.pone.0097144. eCollection 2014

AWARDS

- 08/20/2015-08/24/2015 ECI/EJI award for the workshop "Genetic control of immune cell activation. Implications for pathogenesis of disease, IVth Nordic meeting on genetics and pathogenesis of immunopathological disease", Henningsvær, Lofoten, Norway
- 05/17/2014-05/21/2014 EFIS scholarship for the EMBO conference, Lymphocyte Signalling, Bertinoro, Italy.
- 07/2012-09/2012 Scholarship issued by the Università del Piemonte Orientale for international internships

PARTECIPATION TO CONFERENCES

- 03/17/2018-03/18/2018 San Raffaele Scientific Retreat, Baveno, Italy
Oral presentation/Poster Trailer: " β 1 integrin signaling drives RICD through SAP-dependent DGK α inhibition and actin polymerization in T cells"
E. Ruffo, G. Baldanzi, A. Snow and A. Graziani
- 01/19/2018-02/14/2018 Grants Writing Workshops 2018, Università Vita e Salute San Raffaele, Milan, Italy
- 11/23/2017 MACSDay 2017: "T cells: a translational approach against infection, autoimmunity and cancer" Milan, Italy
- 05/02/2016-05/19/2016 USU Research Days 2016
"INHIBITION OF DIACYLGLYCEROL KINASE ALPHA RESTORES TCR-INDUCED DIACYLGLYCEROL SIGNALING AND RESTIMULATION-INDUCED CELL DEATH IN XLP-1 T LYMPHOCYTES"

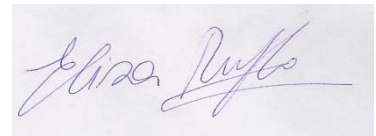
10/27/2015-10/28/2015	Experience WOW Cytometry Attune™ NxT Experience day, University of Modena, Italy.
08/20/2015-08/24/2015	Workshop "Genetic control of immune cell activation. Implications for pathogenesis of disease, IVth Nordic meeting on genetics and pathogenesis of immunopathological disease", Henningsvær, Lofoten, Norway
	Oral presentation: "INHIBITION OF DIACYLGLYCEROL KINASE ALPHA RESTORES TCR-INDUCED DIACYLGLYCEROL SIGNALING AND RESTIMULATION-INDUCED CELL DEATH IN XLP-1 T LYMPHOCYTES"
	Awarded a travel bursary from ECI/EJI for participation at the workshop
06/25/2015	Training course "Le Marie Skłodowska-Curie (MSCA) in Horizon 2020", Novara, Italy
11/03/2014-11/04/2014	A symposium for researcher and clinicians on XLP and WAS, London, England. "Inhibition of Diacylglycerol kinase alpha rescues TCR-induced diacylglycerol signaling and restimulation induced cell death in XLP lymphocytes"
10/23/2014-10/24/2014	SIICA - SSAI Joint Workshop, "Imaging the Immune system", San Raffaele, Milan, Italy. "Inhibition of Diacylglycerol kinase alpha rescues restimulation induced cell death in XLP T lymphocytes and prevents aberrant CD8+ expansion in LCMV-infected SAP -/- mice"
06/09/2014-06/13/2014	V. Malacarne*, E. Ruffo *, L. Patrussi, K.E. Nichols, I. Rubio, A.L. Snow, G. Baldanzi and A. Graziani. SIB, Società Italiana di Biochimica e Biologia Molecolare "26ª RIUNIONE NAZIONALE "A. Castellani" DEI DOTTORANDI DI RICERCA IN DISCIPLINE BIOCHIMICHE", Brallo di Pregola, Italy. "SAP-MEDIATED INHIBITION OF DIACYLGLYCEROL KINASE ALPHA REGULATES TCR-INDUCED DIACYLGLYCEROL SIGNALING AND RESTIMULATION INDUCED APOPTOSIS IN XLP PATIENTS" E. Ruffo , G. Baldanzi, V. Malacarne, K.E. Nichols, L. Patrussi, C.T. Baldari, I. Rubio, C. Wuelfing, A.L. Snow and A. Graziani.
05/17/2014-05/21/2014	EMBO conference, Lymphocyte Signalling, Bertinoro, Italy. "SAP-MEDIATED INHIBITION OF DIACYLGLYCEROL KINASE ALPHA REGULATES TCR-INDUCED DIACYLGLYCEROL SIGNALING AND RESTIMULATION INDUCED APOPTOSIS IN XLP PATIENTS" E. Ruffo , G. Baldanzi, V. Malacarne, K.E. Nichols, L. Patrussi, C.T. Baldari, I. Rubio, A.L. Snow and A. Graziani. Awarded a EFIS scholarship
05/05/2014-05/08/2014	50 th FEBS, Biochemistry society- Advancing Molecular Bioscience, Membrane, Morphology and Function, Hotel del Camerlengo, Fara San Martino, Abruzzo, Italy. 1) "SAP-MEDIATED INHIBITION OF DIACYLGLYCEROL KINASE ALPHA REGULATES TCR-INDUCED DIACYLGLYCEROL SIGNALING AND RESTIMULATION INDUCED APOPTOSIS IN XLP PATIENTS" E. Ruffo , G. Baldanzi, V. Malacarne, K.E. Nichols, L. Patrussi, C.T. Baldari, I. Rubio, A.L. Snow and A. Graziani. 2) "The Diacylglycerol Kinase α/ Atypical PKC/ β1 Integrin Pathway in SDF-1α Mammary Carcinoma Invasiveness" G. Baldanzi, E. Rainero, C. Cianflone, P.E. Porporato, F. Chianale, E. Ruffo , V. Malacarne, J.C. Norman, F. Sinigaglia and A. Graziani.
03/29/2014	ABCD (Associazione di Biologia Cellulare e del Differenziamento) "Forum stem cell therapy: hype or hope?", Lugano, Switzerland.
10/29/2013	IRCAD (Interdisciplinary Research Center for Autoimmune Disease), Multiple Sclerosis, the IRCAD research in the International contest", Novara, Italy. "SAP-mediated inhibition of Diacylglycerol kinase alpha regulates TCR-induced diacylglycerol signaling and restimulation induced cell death in XLP patients" G. Baldanzi, E. Ruffo , V. Malacarne, K.E. Nichols, L. Patrussi, C.T. Baldari, A. Snow and A. Graziani.
03/11/2013-03/13/2013	XVII TELETHON CONVENTION, Riva del Garda, Italy. "Sap-mediated inhibition of Diacylglycerol Kinase Alpha regulates TCR-induced Diacylglycerol signaling and restimulation induced apoptosis" G. Baldanzi, E. Ruffo , V. Malacarne, K.E. Nichols, L. Patrussi, C.T. Baldari, A. Snow and A. Graziani.
12/06/2012	IRCAD (Interdisciplinary Research Center for Autoimmune Disease), The research on autoimmune diseases from bench to bedside: focus on Rheumatoid Arthritis, Novara, Italy. "The inhibition of Diacylglycerol Kinase alpha (DGKα) restores the restimulation induced apoptosis in T lymphocytes of XLP patients: DGKα a new pharmacological target for autoimmunity?" G. Baldanzi, E. Ruffo , A. Snow and A. Graziani.
10/08/2012	XLP symposium: a conference for medical researchers on X-linked lymphoproliferative disease" London, England. "SAP-Mediated inhibition of diacylglycerol kinase alpha regulates TCR-induced diacylglycerol signalling" G. Baldanzi, E. Ruffo , A. Snow and A. Graziani.
PERSONAL SKILLS	
Languages	Mother tongue: Italian Other: English, proficient user
Communication skills	Excellent in communication skills and in work in teams mainly acquired during the internship at university as under-graduate and graduate student, also during the collaboration in USA at USUHS and NIH laboratories and summer jobs.
Organizational / managerial skills	Excellent organizational skills of labor and management of working plans, both individual and group, acquired during training periods for which it has required a lot of self-employment in the integrated group work.
Job-related skills	<ul style="list-style-type: none"> Isolation and purification of lymphocytes CD8⁺-CD4⁺ from human blood and lymph nodes and spleen of murine model (SAP KO, DGKα KO), primary cell cultures and continuous cell lines ELISA Restimulation induced cell death assays (RICD) Invasion assay, wound-healing, chemotaxis assay RNA preparation and analysis, PCR, RT-PCR, real-time PCR, Electrophoresis of nucleic acids

Computer skills

- Western blotting, SDS-PAGE, Immunoprecipitation, Immunoblotting and Protein purification
- Transfections with siRNA, plasmids and cloning
- Flow Cytometry (FACS calibur BD, C6 Accury, Attune NxT Thermo Scientific, Canto)
- Fluorescence microscopy
- Activities of animal enclosure; management of a colony of SAP, DGK α KO mice, generation of mice double KO, couplings, weaning, genotyping of mice
- OFFICE PACKAGE: Word, Excel, Power Point
- OPERATIVE SYSTEMS: Windows, Mac
- INTERNET BROWSERS: Internet Explorer, Google Chrome and Safari.
- GRAFIC PROGRAMS: Photoshop, GIMP.
- BIOINFORMATIC SOFTWARE: Quantity one, Image Lab, CellQuest pro, software analysis real-time PCR (Bio-Rad CFX Manager), FlowJo, FlowingSoftware, Graph Pad Prism.
- SCIENTIFIC DATA BASE: PubMed, NCBI, BLAST, FASTA.

Milan, April 2018

Elisa Ruffo



Autorizzo il trattamento dei dati personali ai sensi del D. Lgs. 196/2003.

I authorize the processing of personal data.