

ALLEGATO E

CURRICULUM DELLA PROPRIA ATTIVITÀ SCIENTIFICA E PROFESSIONALE

GEORGIA TSAOULI – *Curriculum Vitae*

Name: GEORGIA

Surname: TSAOULI

Birth date and place:

Citizenship: GREEK

Titles: PharmD, PhD

Language skills:

1) **GERMAN** CERTIFICATES: a) ZERTIFIKAT DEUTSCH b) MITTELSTUFE

2) **ENGLISH** CERTIFICATES: a) FIRST CERTIFICATE IN ENGLISH

3) **GREEK** (native language)

4) **ITALIAN**

Computer skills:

- Operating Systems:** Microsoft Windows OS, Mac OS;
- Software:** Prism 6, FlowJo, CellQuest, Image J, Aperture, Final Cut Pro X, Microsoft Word, Filemaker Pro Advanced, Adobe Suite, Microsoft PowerPoint, Microsoft Excel, Adobe Acrobat Pro, Adobe Photoshop 6, Keynote, Pages, Numbers and others.

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A. ACCADEMIC CAREER

2016 (July): Graduation from School of Pharmacy and Medicine, University of Rome "Sapienza" with a votation of 110 cum lode/110, presenting the thesis "Drug delivery of doxorubicin-loaded PLGA nanoparticles for cancer therapy".

2016 (September): Winner of PhD public contest and admission in the Department of Molecular Medicine, University of Rome "Sapienza".

2016 (November): Professional Abilitation as Pharmacist.

2018: Winner of a grant for young researchers, funding provided by University of Sapienza.

2019 (October): End of PhD program in 31st of October (defense of the thesis February 2020).

2019 (November): Winner of Master public contest and admission in the Master of 'Hematology and Oncology for infants and adolescents' in the Department of Medicine, University of Crete. Enrolment at the abovementioned master which will be concluded by February 2021.

2020: Doctor of Philosophy in Molecular Medicine, University of Rome 'Sapienza'.

2020: Intern at the Department of Pediatric Hematology-Oncology & Autologous Hematopoietic Stem Cell Transplantation Unit, University Hospital of Heraklion, Greece.

2021: Graduation from the Master Program 'Hematology and Oncology for infants and adolescents', University of Crete, School of Medicine.

B. LABORATORY ACTIVITY

2014-2016: Elective internship at the Department of Molecular Medicine, "Policlinico Umberto I" Hospital, University of Rome "Sapienza". Supervisor: Prof. Ida Silvestri.

2016-2019: PhD student at the Department of Molecular Medicine, University of Rome "Sapienza".

Supervisor: Prof. Isabella Screpanti and Maria Pia Felli.

2019 (1st April - 31st July): Phd student visitor at the University College of London (UCL) Institute of Child Health-Experimental Immunology (Great Ormond Street, GOSH Institute). London United Kingdom. Supervisor: Prof. Tessa Crompton.

2020-2021: Research at the Department of Experimental Medicine, University of Rome "Sapienza" and the Department of Hematology-Oncology of Childhood and Adolescence at the School of Medicine, University of Crete.

C. RESEARCH SKILLS

- Cell culture (maintenance of cell lines in suspension, in adhesion and as co-culture). In vitro pharmacological treatment, proliferation assay test and migration assay test.
- Transient cell transfection by liposomes or by electroporation with plasmids or RNA interference (siRNA).
- Bacterial cultures.
- Cloning techniques for the generation of plasmid vectors and amplification of plasmid vectors in bacteria.
- Extraction of nucleic acids (DNA/RNA) from eucariotic and procariotic cells.
- PCR, reverse trascription and real-time PCR (RT-PCR).
- Cytofluorimetric analysis (FACS), cell sorting and magnetic cell isolation.
- Protein extraction (total or fractionated protein extracts).
- Western Blot
- Staining techniques for immunofluorescence.
- ELISA
- Techniques of thymocyte purification derived by murine thymus and isolation of thymic epithelial cells.
- Preparation of mouse organs (thymus, spleen, bone marrow and blood) for flow cytometry and/or sorting.
- FTOC (fetal thymic organ culture).

D. CONFERENCE PARTECIPATION AND COURSE ATTENDANCE

1-5.10.2017: The Notch meeting X Athens, Greece. (poster presentation)

20.11.2017: 8th BeMM Symposium Biology and Molecular Medicine PhD School.

29.1.2018: Attendance of the workshop medical writing, Rome, Italy. (Sapienza University)

4-5.6.2018: Attendance of the course Science Communication Rome, Italy. (Sapienza University)

6-7.6.2018: Attendance of the course microscopy in bright field and fluorescence. Rome, Italy (Nikon)

25-26.6.2018: Attendance of the course new techniques in biomaging. Rome, Italy (VITARES)

30.6-3.7.2018: 25th Biennial Congress of the European Association for Cancer Research. Amsterdam, Holland (poster presentation)

19.07.2018: Attendance of the 1st Workshop of PhD program in "Innovation in immune-mediated and hematological disorders" (Sapienza University)

20-22.07.2018: Attendance of the 'School of Immunology: Advanced Course' (SIICA, Messina).

18.10.2018: Attendance of the workshop "Discovering Organoids: The journey of 3D Cultures Systems". Rome, Italy (Roma Tre University)

12.11.2018: Attendance of the workshop and annual meeting 'Computational and systems Biology', Rome Italy. Organised by InterOmics CNR and IBPM CNR.

13-14.09.2019: SiPMeT Young Meeting, Florence. 'Pathobiology: From molecular disease to clinical application.' (poster presentation)

06-10.10.2019: The Notch meeting XI Athens, Greece. (poster presentation)

06-08.11.2019: 61st Annual Meeting of the Italian Cancer Society, Naples. 'Precision Medicine from myth to reality'. (poster presentation)

E. PUBBLICATIONS

Ferrandino F, TSAOULI G, Bernardini G, Grazioli P, Campese AF, Noce C, Ciuffetta A, Vacca A, Besharat ZM, Bellavia D, Screpanti I, Felli MP (2018). *Intrathymic Notch3 and CXCR4 combinatorial interplay facilitates T-cell leukemia propagation*. ONCOGENE, ISSN: 0950-9232, doi: 10.1038/s41388-018-0401-2.

Arcella A, Palchetti S, Digiacomio L, Pozzi D, Capriotti AL, Frati L, Oliva MA, TSAOULI G, Rota R, Screpanti I, Mahmoudi M, Caracciolo G. (2018). *Brain Targeting by Liposome-Biomolecular Corona Boosts Anticancer Efficacy of Temozolomide in Glioblastoma Cells*. ACS CHEMICAL NEUROSCIENCE, ISSN: 1948-7193, doi:10.1021/acscchemneuro.8b00339.

G TSAOULI, F Ferrandino, G Bernardini, P Grazioli, AF Campese, D Bellavia, S Checquolo, I Screpanti, MP Felli. (2018). "Notch3 and CXCR4 cross-signaling sustains acute T-cell leukemia progression". ESMO OPEN, vol. ESMO open.3. A383.2-A387.10.1136/ESMOopen-2018-EACR25.905.

Laura Chronopoulou, Fabio Domenici, Sabrina Giantulli, Francesco Brasili, Chiara D'Errico, Georgia Tsaouli, Elisabetta Tortorella, Federico Bordi, Stefania Morrone, Cleofe Palocci, Ida Silvestri.

"PLGA based particles as "drug reservoir" for antitumor drug delivery: characterization and cytotoxicity studies" Colloids and Surfaces B: Biointerfaces COLLOIDS SURF B BIOINTERFACES. 2019 May 7;180:495-502. doi: 10.1016/j.colsurfb.2019.05.006.

Tsaouli G, Ferretti F, Bellavia D, Vacca A, Felli M. 'Notch/CXCR4 Partnership in Acute Lymphoblastic Leukemia Progression Notch/CXCR4 Partnership in Acute Lymphoblastic Leukemia Progression' Journal of Immunology Research Volume 2019, Article ID 5601396, 11 pages. <https://doi.org/10.1155/2019/5601396>.

F. PARTECIPATION IN BOOK AUTHORSHIP

Chapter's Title: "Molecular mechanisms of Notch signaling in lymphoid cell lineages development: NF- κ B and beyond".

Authors: Tsaouli, G; Barbarulo, A; Screpanti, I.; Vacca, A; Felli, M.P. **Book:** *Notch Signaling in Embryology and Cancer, on behalf of Springer*. Estimated print publication date: March 2020.

G. FUNDING GRANTS

10/07/2018: Winner of a grant for young researchers, funding provided by University of Sapienza. Title of the proposed research plan: '*NOTCH3 deregulates early progressive differentiation programs of thymocytes in acute T cell leukemia*.' Sapienza, progetto avvio alla ricerca, protocol n°.: AR1181643646B258

H. SUPERVISION OF JUNIOR RESEARCHERS

Giuseppe Pietro Innocenti, Bcs student, School of Biotechnology, University of Rome Sapienza. '*Notch e CXCR4 nella progressione della leucemia linfoblastica acuta a cellule T (T-ALL)*'. *Matricola: 1517627*

Francesca Romana Piccioni, Bcs student, School of Medical Laboratory Technicians, University of Rome Sapienza. '*Effetti del silenziamento del gene Notch3 in una linea cellulare umana di Leucemia Linfoblastica Acuta a Cellule T*'. *Matricola: 1042214*

Francesca Cossa, master student, School of Medical Biotechnologies, University of Rome Sapienza. '*Il ruolo di CXCR4 nello sviluppo della leucemia acuta a cellule T indotta da Notch3*'. *Matricola: 1647177*

I. TEACHING

16.01.2017 Wound healing, Presentation on 3rd year students, Course of Pathology, School of Medicine, University of Rome Sapienza.

20.12.2018 Wound healing, Presentation on 3rd year students, Course of Pathology, School of Medicine, University of Rome Sapienza.

16.10.2019 and 22-23.10.2019: Practical courses on Flow Cytometry, Real Time PCR, DNA extraction 3rd year students, Course of Pathology, School of Medicine, University of Rome Sapienza.

19.1.2022

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