

Curriculum vitae Francesca Piaggio

ACADEMIC QUALIFICATION

March, 27th 2014

Master Degree in Medical-Pharmaceutical Biotechnologies
110/110 cum laude, Publication Recommended and Medal

University of Genoa (School of Medical and Pharmaceutical Science)

Thesis: “Development of an innovative liposomal formulation encapsulating Clodronate targeting macrophages: application in the prevention and antitumoral therapy”

March, 29th 2012

Bachelor Degree in Biotechnologies

University of Genoa

Thesis: “Liposomal formulation encapsulating Clodronate: characterisation by Dynamic and Electrophoretic Light Scattering”

TRAINING AND RESEARCH EXPERIENCE

November 2019 - Now

PhD Student

Laboratory of Cellular Oncology

UNIGE-IRCCS AOU Policlinico San Martino – IST Istituto Nazionale per la Ricerca sul Cancro,

L. Rosanna Benzi 10, 16132 Genoa, Italy

Supervisor: Paolo Malatesta

In vitro and *in vivo* analyses for the evaluation of new therapeutic strategies associated with the treatment of Glioblastoma.

Translational research

April 2016 – October 2019

Junior Fellow (Borsa di studio IRCCS Policlinico San Martino)

Laboratory of Molecular Pathology, Department of Integrated Oncology Therapies, IRCCS AOU Policlinico San Martino – IST Istituto Nazionale per la Ricerca sul Cancro,

L. Rosanna Benzi 10, 16132 Genoa, Italy

Supervisor: Ulrich Pfeffer

In vitro and *in vivo* study of two genes associated to Uveal Melanoma progression and metastases, ROBO1 and HTR2B.

Translational research

October – November 2015

Visiting scientist

Department of Basic Biomedical Sciences, Neurosciences and Sensory Organs, Section of Human Anatomy and Histology, University of Bari Medical School

Piazza Giulio Cesare 11, 70124 Bari, Italy

Supervisor: Prof. Domenico Ribatti

Evaluation of the anti-angiogenic effect of liposomal formulation on tumor NB cells via Chick Chorioallantoic Membrane (CAM) Assay

March 2011 – December 2015

Trainee/Biotechnologist (student/co. co. co. contract-1 year)

Experimental therapy Unit, Laboratory of Oncology, Istituto G. Gaslini

Via G. Gaslini 5, 16147, Genoa, Italy

Supervisor: Dr. Mirco Ponzoni

Development and characterization of different liposomal formulations; *in vitro* and *in vivo* analyses of their antitumor functionality in Neuroblastoma and Melanoma mouse models

Personal skills

Good knowledge of English (written and spoken) and basic knowledge of Spanish.
Good communication and organisational skills developed in the management of groups thanks to a more than ten years experience in the AGESCI scout association, to a different kind of volunteering activities and to my role as a student representative.
Good informatic skills thanks to the university courses (Informatics and Bioinformatics)
Good command of Microsoft Office™ tools (Word™, Excel™ and PowerPoint™), SQL and Graphpad prism.

PUBLICATIONS

1. **Piaggio F**, Tozzo V, Bernardi C, Croce M, Puzone R, Viaggi S, Patrone S, Barla A, Coviello D, Jager MJ, Van Der Velden PA, Zeschning M, Cangelosi D, Eva A, Pfeffer U, Amaro A (2019) *Secondary Somatic Mutations in G-Protein-Related Pathways and Mutation Signatures in Uveal Melanoma Cancers*
2. Bianchi G, Ravera S, Traverso C, Amaro A, **Piaggio F**, Emionite L, Bacchetti T, Pfeffer U, Raffaghello L (2018) *Curcumin induces a fatal energetic impairment in tumor cell in vitro and in vivo by inhibiting ATP-synthase activity*. Carcinogenesis.
3. Amaro A, Gangemi R, **Piaggio F**, Angelini G, Barisione G, Ferrini S, Pfeffer U (2017) *The biology of Uveal Melanoma*. Cancer Metastasis Rev.
4. **Piaggio F**, Kondylis V, Pastorino F, Di Paolo D, Perri P, Cossu I, Schorn F, Marinaccio C, Murgia D, Daga A, Raggi F, Loi M, Emionite L, Ognio E, Pasparakis M, Ribatti D, Ponzoni M, Brignole C (2016) *A novel liposomal Clodronate depletes tumor-associated macrophages in primary and metastatic melanoma: Anti-angiogenic and anti-tumor effect*. Journal of Controlled Release 223, 165-177
5. Di Paolo D, Yang D, Pastorino F, Emionite L, Cilli M, Daga A, Destefanis E, Di Fiore A, **Piaggio F**, Brignole C, Xu X, Liang C, Gibbons J, Ponzoni M, Perri P (2015) *New therapeutic strategies in neuroblastoma: combined targeting of a novel tyrosine kinase inhibitor and liposomal siRNAs against ALK*. Oncotarget 6 (30), 28774-28789
6. Cossu I, Bottoni G, Loi M, Emionite L, Bartolini A, Di Paolo D, Brignole C, **Piaggio F**, Perri P, Sacchi A, Curnis F, Gagliani MC, Bruno S, Marini C, Gori A, Longhi R, Murgia D, Sementa AR, Cilli M, Tacchetti C, Corti A, Sambuceti G, Marchiò S, Ponzoni M, Pastorino F (2015) *Neuroblastoma-targeted nanocarriers improve drug delivery and penetration, delay tumor growth and abrogate metastatic diffusion*. Biomaterials 68, 89-99
7. Zuccari G, Milelli A, Pastorino F, Loi M, Petretto A, Parise A, Marchetti C, Minarini A, Cilli M, Emionite L, Di Paolo D, Brignole C, **Piaggio F**, Perri P, Tumiatti V, Pistoia V, Pagnan G, Ponzoni M (2015) *Tumor vascular targeted liposomal-bortezomib minimizes side effects and increases therapeutic activity in human neuroblastoma*. Journal of Controlled Release 211, 44-52
8. Loi M, Becherini P, Emionite L, Giacomini A, Cossu I, Destefanis E, Brignole C, Di Paolo D, **Piaggio F**, Perri P, Cilli M, Pastorino F, Ponzoni M (2014) *sTRAIL coupled to liposomes improves its pharmacokinetic profile and overcomes neuroblastoma tumour resistance in combination with Bortezomib*. Journal of Controlled Release 192, 157-166