INFORMAZIONI PERSONALI

Sabrina Garbo

ESPERIENZA PROFESSIONALE

▪ 01/03/2022 – Current Rome, Italy:
POSTDOCTORAL RESEARCHER PROF. MARCO TRIPODI, DEPARTMENT OF MOLECULAR MEDICINE, SAPIENZA UNIVERSITY OF ROME

▪ 01/11/2020 – 31/10/2021 Rome, Italy
POSTDOCTORAL RESEARCHER DR. ANGELA GALLO, DEPARTMENT OF ONCOHEMATOLOGY DIRECTED BY PROF. FRANCO LOCATELLI
- Study of the role of ADAR enzymes in the onset and progression of Glioblastoma Multiforme

▪ 01/11/2017 – 31/10/2020 Rome, Italy
PH.D STUDENT IN LIFE SCIENCES PROF. MARCO TRIPODI, DEPARTMENT OF MOLECULAR MEDICINE (UNIVERSITY OF ROME, LA SAPIENZA)
-Development of RNA-based stretegies to counteract EMT and fibrosis.

▪ 03/2017 – 09/2017 Rome, Italy
POST-LAUREAM TRAINEE PROF. SILVIA ANNA CIAFRÈ, FACULTY OF MEDICINE AND SURGERY (UNIVERSITY OF ROME TOR VERGATA)
-Study of the epigenetic role of the lncRNA H19 in the regulation of genes that are antagonists of the Wnt pathway in glioblastoma multiforme cells.
-Study of the molecular microenvironment of glioblastoma multiforme.

▪ 10/2015 – 03/2017 Rome, Italy
TRAINEE PROF. SILVIA ANNA CIAFRÉ, FACULTY OF MEDICINE AND SURGERY (UNIVERSITY OF ROME TOR VERGATA)
-Study of the epigenetic role of the lncRNA H19 in the regulation of genes that are antagonists of the Wnt pathway in glioblastoma multiforme cells.

▪ 10/2013 – 12/2013 Rome, Italy
TRAINEE PROF. FRANCESCO CECCONI, I.R.C.C.S. FONDAZIONE SANTA LUCIA
-Study of the role of the pro-autophagic protein AMBRA1 in cell death, using Western blot analysis.

ISTRUZIONE E FORMAZIONE

▪ 2021 Rome, Italy
PHD IN LIFE SCIENCES University of Rome La Sapienza
Thesis "Design and functional validation of a lncRNA-based strategy to counteract EMT"

▪ 2017 Rome, Italy
MASTER DEGREE IN CELL AND MOLECULAR BIOLOGY AND BIOMEDICAL SCIENCES University of Rome Tor Vergata
Thesis title: "The lncRNA H19 acts as an epigenetic regulator of genes that are antagonists of the Wnt pathway in glioblastoma multiforme cells"

▪ 2014 Rome, Italy
BACHELOR DEGREE IN BIOLOGICAL SCIENCES University of Rome Tor Vergata
Thesis title: "Study of the role of the pro-autophagic protein AMBRA1 in cell death, using Western blot analysis"

COMPETENZE PERSONALI

Lingua madre: Italiano

Altre lingue

	COMPRENSIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
Inglese	B2	B2	B2	B2	B2

Competenze professionali

▪ Main technique expertise
▪ -Cell Biology: Cell culture, Cell count, Cell freezing, Transient transfection, Stable transfection, Production of murine retroviruses and lentiviruses, Immunofluorescence, Purification of exosomes, MTS assay, Scratch assay, Invasion assay.
▪ -Molecular Biology and Biochemistry: RNA purification, RT-qPCR, PCR, RNA FISH, RIP, Nucleus-Cytoplasm RNA separation, RNA dot blot, meRIP, Molecular cloning, ChIP, Bacterial transformation, Purification of DNA plasmids from bacteria, protein purification, histone proteins purification IP, Co-IP, ELISA, WB.

Competenze digitali

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
intermedio	intermedio	intermedio	intermedio	intermedio

▪ Computer competences: Microsoft Office programs (Excel, PowerPoint, Excel), BLAST, PRMER3,

REDIPortal, GraphPad, ImageJ, Adobe Photoshop.

ULTERIORI INFORMAZIONI

Pubblicazioni

- Fazi B., Garbo S., Toschi N., Mangiola A., Lombari M., Sicari D., Battistelli C., Galardi S., Michienzi A.,Trevisi G., Harari-Steinfeld R., Cicchini C., Ciafrè SA. The lncRNA H19 positively affects the tumorigenic properties of glioblastoma cells and contributes to NKD1 repression through the recruitment of EZH2 on its promoter. Oncotarget. 2018; 9:15512-15525 https://doi.org/10.18632/oncotarget.24496
- Design and Functional Validation of a Mutant Variant of the LncRNA HOTAIR to Counteract Snail Function in Epithelial-to-Mesenchymal Transition. Battistelli C, Garbo S, Riccioni V, Montaldo C, Santangelo L, Vandelli A, Strippoli R, Tartaglia GG, Tripodi M, Cicchini C. Cancer Res. 2021 Jan 1;81(1):103-113. doi: 10.1158/0008-5472.CAN-20-1764. Epub 2020 Nov 6. PMID: 33158813 – 2021
- A novel RNA-based approach to counteract EMT. Garbo S, Tripodi M, Battistelli C. Oncoscience. 2021 May 7;8:53-54. doi: 10.18632/oncoscience.532. eCollection 2021. PMID: 33997108– 2021
- m6A RNA methylation and beyond - The epigenetic machinery and potential treatment options. Garbo S, Zwergel C, Battistelli C. Drug Discov Today. 2021 Nov;26(11):2559-2574. doi: 10.1016/j.drudis.2021.06.004. Epub 2021 Jun 12. PMID: 34126238– 2021
- Seleno-vs. thioether triazine derivatives in search for new anticancer agents overcoming multidrug resistance in lymphoma. Ali W, Garbo S, Kincses A, Nové M, Spengler G, Di Bello E, Honkisz-Orzechowska E, Karcz T, Szymańska E, Żesławska E, Starek M, Dąbrowska M, Nitek W, Kucwaj-BryszK, Pyka P, Fioravanti R, Jacob C, Battistelli C, Zwergel C, Handzlik J. Eur J Med Chem. 2022 Dec 5;243:114761. doi: 10.1016/j.ejmech.2022.114761. Epub 2022 Sep 19. PMID: 36179403– 2022
- Restoration of WT1/miR-769-5p axis by HDAC1 inhibition promotes MMT reversal in mesenchymal like mesothelial cells. Bontempi G, Terri M, Garbo S, Montaldo C, Mariotti D, Bordoni V, Valente S, Zwergel C, Mai A, Marchetti A, Domenici A, Menè P, Battistelli C, Tripodi M, Strippoli R. Cell Death Dis. 2022 Nov 17;13(11):965. doi: 10.1038/s41419-022-05398-0. PMID: 36396626– 2022
- SYNCRIP Modulates the Epithelial-Mesenchymal Transition in Hepatocytes and HCC Cells. Riccioni V, Trionfetti F, Montaldo C, Garbo S, Marocco F, Battistelli C, Marchetti A, Strippoli R, Amicone L, Cicchini C, Tripodi M. Int J Mol Sci. 2022 Jan 14;23(2):913. doi: 10.3390/ijms23020913. PMID: 35055098– 2022
- MyoD-Induced Trans-Differentiation: A Paradigm for Dissecting the Molecular Mechanisms of Cell Commitment, Differentiation and Reprogramming. Battistelli C, Garbo S, Maione R. Cells. 2022 Oct 31;11(21):3435. doi: 10.3390/cells11213435. PMID: 36359831 – 2022
- lncRNA HOTAIR functions and therapeutic perspectives. Garbo S, Tripodi M, Battistelli C. Oncoscience. 2022 Sep 13;9:49-51. doi: 10.18632/oncoscience.563. eCollection 2022. PMID: 36110328– 2022
- Next RNA Therapeutics: The Mine of Non-Coding. Garbo S, Maione R, Tripodi M, Battistelli C. Int J Mol Sci. 2022 Jul 5;23(13):7471. doi: 10.3390/ijms23137471. PMID: 35806476– 2022
- Selenium-Containing Agents Acting on Cancer-A New Hope? Garbo S, Di Giacomo S, Łażewska D,Honkisz-Orzechowska E, Di Sotto A, Fioravanti R, Zwergel C, Battistelli C. Pharmaceutics. 2022 Dec 28;15(Conferences

Conferenze e Seminari

- - (20/11/2017) BeMM Symposium 2017, University of Rome "La Sapienza", Rome, Italy.
- - (22-24/03/2018) ABCD PhD Congress 2018, Salerno, Italy.
- - (18-21/09/2018) FISV Congress 2018, University of Rome "La Sapienza", Rome, Italy (poster presentation: "The lncRNA HOTAIR governs epigenetic modifications causal to EMT and is controlled by HNF4a").
- - (13/11/2018) BeMM Symposium 2018, University of Rome "La Sapienza", Rome, Italy
- - (12-15/06/2019) StaPa Retreat 2019, Istituto Pasteur Italia, Rome, Italy (poster presentation "Deciphering molecular mechanisms driving EMT").
- - (18-21/09/2019) ABCD Congress, Bologna, Italy (poster presentation "A lncRNA HOTAIR mutant form counteracts the Epithelial-to-Mesenchymal Transition (EMT) by interfering with Snail function").

- - (22/11/2019) BeMM Symposium 2019, University of Rome "La Sapienza", Rome, Italy (Congress Organizer).
- - (20/10/2021) World CRISPR Day, Online event
- - (20-21 May 2021) EMBL in Italy: A Brave New World of RNA, Online event
- -(20-22 September 2021) COST Action CA16120 EPITRAN European Epitranscriptomics Network,Online event
- -(21-22 January 2021) Deaminet 2nd International Conference on Base Editing – Enzymes and Applications, Online event
- -(23-25 June 2021) RNA Therapeutics: From Concept to Clinic, Online event
- -(20-22 June 2022) SIBBM seminar 2022, Rome, Italy (poster presentation "A lncRNA HOTAIR mutant form counteracts the Epithelial-to-Mesenchymal Transition (EMT) and tumor progression").
- -(23-24 September 2022) XX Congresso Nazionale AIBG Talk presentation "A lncRNA HOTAIR mutant form counteracts the Epithelial-to-Mesenchymal Transition (EMT) and tumor progression")1):104. doi: 10.3390/pharmaceutics15010104. PMID: 36678733

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

_la_ sottoscritta dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

Data

16/02/2023

f.to

SABRINA GARBO