

Curriculum vitae et studiorum

Giuseppe Ciccone

Personal Information

Giuseppe Ciccone

Address

Phone

e-mail

Date of birth | Nationality

Work ExperienceJuly 2023 – ongoing
(June 2024)

Annual Fellowship in the program WWCR #22-0129 named “Innovative aptamer-based approaches to specifically target DNAmethylation in non-small-cell lung cancer” (rinnovo)

Employer's name | Locality

CNR – IEOS, Istituto per l'Endocrinologia e l'Oncologia Sperimentale
“Gaetano Salvatore”, Via Pansini 5, 80131, Naples
Supervisor: Carla Lucia Esposito PhD

Business or sector

Research in molecular oncology

July 2022 – June 2023
(June 2023)

Annual Fellowship in the program WWCR #22-0129 named “Innovative aptamer-based approaches to specifically target DNAmethylation in non-small-cell lung cancer”

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Business or sector

Research in molecular oncology

June 2021 – May 2022

Fellowship RISE - cONCReTE - DevelOpmeNt of Cancer RNA TherapEutics
(G.A. 872391)

Employer's name | Locality

CNR – IEOS, Istituto per l'Endocrinologia e l'Oncologia Sperimentale
“Gaetano Salvatore”, Via Pansini 5, 80131, Naples
Supervisor: Carla Lucia Esposito PhD

Host institution for secondment Percuros B.V. Zemikereef 8, 2333 CL Leiden, The Netherlands

Business or sector

Research in molecular oncology

Main activities

Characterization of molecular constructs (RNA based) for the selective delivery of nucleic acids therapeutics and their functionality on cancer cells.

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Jan. 2021 – April 2021	Post-graduate internship
Employer's name Locality	CNR -IEOS, Istituto per l'Endocrinologia e l'Oncologia Sperimentale "Gaetano Salvatore", Via Pansini 5, 80131, Naples Supervisor: Silvia Catuogno PhD
Business or sector	Research in molecular oncology
Main activities	Synthesis and characterization of nucleic acid aptamers as tools for targeted therapy and identification of novel biomarkers on cancer cells.
July 2019 – Dec. 2020	Undergraduate trainee
Employer's name Locality	CNR -IEOS, Istituto per l'Endocrinologia e l'Oncologia Sperimentale "Gaetano Salvatore", Via Pansini 5, 80131, Naples Supervisor: Silvia Catuogno PhD
Business or sector	Research in molecular oncology
Main activities	Selection of RNA aptamer using cell-SELEX technology. Characterization of selected aptamers. Characterization of stromal-cancer cells interaction.

Education and Training

Dec. 2022 – ongoing	Enrolled PhD student PhD program: "Molecular Life Sciences" cycle 38 th Università degli studi della Campania "L. Vanvitelli" Supervisor: Silvia Catuogno PhD
Sept. 2017 – Dec. 2020	Master's Degree in Pharmaceutical Biotechnology (LM-9) University of Naples "Federico II" Final Grade: 110/110 Principal subjects: Molecular and cellular biology, Combinatorial Chemistry. Thesis: Development of RNA aptamers for the selective targeting of non-small cell lung cancer (NSCLC)- derived cancer-associated fibroblasts (CAFs). Trainee organizations: University of Naples "Federico II", CNR-IEOS Supervisor: Silvia Catuogno PhD Internal supervisor: Veronica Esposito PhD
Sept. 2013 – July 2017	Bachelor's Degree in Biotechnology University of Naples "Federico II" Final Grade: 97/110 Principal subjects: Cellular biology, biotechnology, chemistry. Thesis: Attività antiossidante e antiproliferativa del resveratrolo e dell'addotto resveratrolo-acido linoleico coniugato nei confronti di linee cellulari di melanoma (Antioxidant and antiproliferative activity of resveratrol and conjugated linoleic acid-resveratrol construct on melanoma cell lines) Trainee organizations: University of Naples "Federico II"

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Supervisor: Dr. Margherita-Gabriella De Biasi

Personal Skills

Mother tongue

Italian

Other language(s)

English

Understanding	Speaking	Writing
B2	B2	B2

French

Understanding	Speaking	Writing
B1	A2	A2

Digital competence

Excellent knowledge of Office suite (word processor, spread sheet, presentation software).

Good knowledge of: GraphPad Prism, Adobe Photoshop, Adobe Illustrator.

Technical Skills

Eukaryotic cell culture (stable cell lines, primary cultures).

Bacterial cell culture and cloning techniques.

Molecular biology techniques (DNA/RNA extraction and purification, PCR, qRT-PCR, in vitro Transcription).

Signal transduction and Protein analyses (Wester-blot, Immunoprecipitation, ELISA).

Transient transfection techniques.

Cell viability, migration and invasion assays. Contraction assay.

Combinatorial chemistry for aptamer selection (SELEX). Aptamer truncation and modifications.

Flow cytometry and Confocal microscopy.

Additional Information

Publications

Ciccone G, Ibba ML, Coppola G, Catuogno S, Esposito CL. The Small RNA Landscape in NSCLC: Current Therapeutic Applications and Progresses. *Int J Mol Sci.* 2023;24(7):6121. Published 2023 Mar 24. doi:10.3390/ijms2407612

Ibba ML, **Ciccone G**, Rotoli D, et al. STAT3 silencing by an aptamer-based strategy hampers the crosstalk between NSCLC cells and cancer-associated fibroblasts. *Mol Ther Nucleic Acids.* 2023;32:111-126. Published 2023 Mar 10. doi:10.1016/j.omtn.2023.03.003

Nuzzo, S., Iaboni, M., Ibba, M. L., Rienzo, A., Musumeci, D., Franzese, M., Roscigno, G., Affinito, A., Petrillo, G., Quintavalle, C., **Ciccone, G.**, Esposito, C. L., & Catuogno, S. (2022). Selection of RNA aptamers targeting hypoxia in cancer. *Frontiers in molecular biosciences*, 9, 956935. <https://doi.org/10.3389/fmolb.2022.956935>

Ibba ML, **Ciccone G**, Esposito CL, Catuogno S, Giangrande PH. Advances in mRNA non-viral delivery approaches. *Adv Drug Deliv Rev.* 2021;177:113930. doi:10.1016/j.addr.2021.113930

Meeting abstracts

Ciccone G, Ibba ML, Coppola G, Cennamo F, Esposito CL, Catuogno S. Isolation of new aptamers for the specific targeting of NSCLC-CAFs. 4th IBBR Memorial Workshop Nov 16-17, 2023.

Ibba ML, **Ciccone G**, Coppola G, de Franciscis V, Di Ruscio A, Catuogno S, Esposito CL. Selective targeting of DNA Methylation through nucleic acid aptamers for non-small cell lung cancer therapy 3rd IBBR Memorial Workshop Nov 10-11, 2022

Ibba ML, **Ciccone G**, Catuogno S, Esposito CL . APTAMER-BASED RNA-BIO-DRUGS FOR THE COMBINED THERAPY OF GBM, It is 6th Joint Seminar with the International Participation Digital medicines at the intersection of sciences May, 30 2022

Ibba ML, **Ciccone G**, Coppola G., Petrillo G., Fiorelli A., Esposito CL, Catuogno S, Targeting of Cancer associated fibroblast in NSCLC by new aptamer-based approaches. Cnr-Dsb conference: Target discovery for unmet medical needs and precision/personalized medicine meeting 4 April 2022 (Conference Poster)

Ciccone G, Ibba ML, Coppola G, Petrillo G, Catuogno S, Esposito CL. New aptamer-based approaches for the targeting of cancer associated fibroblast in NSCLC. *Siberian Medical Review.* 2021; (2):83. DOI: 10.20333/2500136-2021-2-83 (Meeting abstract)

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