

ALLEGATO B- AI FINI DELLA PUBBLICAZIONE

Claudia Tito

Curriculum Vitae

I-Education

Type	Year	Institution	Notes
University graduation	2016	University of Rome "La Sapienza"	Degree in Genetics and Molecular Biology, Final grade: 110/110 cum laude
PhD	2016-2019	University of Rome "La Sapienza"	PhD degree in Morphogenesis and Tissue Engineering Research project: Contribution of lncRNA LINC00174 into cell migration and lipid metabolism in Thymic Epithelial Tumors cells
Licensure	2018	University of Rome Tor Vergata	State Examination for biologist (esame di stato per l'abilitazione alla professione di biologo Specialista)

Appointments

II – Academic Appointments

Start	End	Institution	Position
1/04/2023	31/03/2024	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	"Post-doctoral Fellowships" research grants Fondazione Umberto Veronesi Year 2023 Research projects: Role of lncRNA MALAT-1 in the tumor microenvironment
1/07/2022	31/03/2023	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences.	Fellowship (borsa di studio). Research projects: 1) Study of the involvement of a calcium-binding protein in EGFR recycling in Non-Small Lung Cancer Cells. (Manuscript under revision).

			2) Study of new therapeutic strategies, such as ferritin-derived nanocarriers and synthesize KRAS degraders (PROTACs), to overcome resistance to mutation-specific KRAS inhibitors in pancreatic ductal adenocarcinoma cell line. 3) Role of lncRNA MALAT-1 in the tumor microenvironment
1/04/2021	31/04/2022	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	Post-doc (assegno di ricerca). Research projects: 1) Study of the involvement of a calcium-binding protein in EGFR recycling in Non-Small Lung Cancer Cells (Manuscript under revision). 2) Study of new therapeutic strategies, such as ferritin-derived nanocarriers and synthesize KRAS degraders (PROTACs), to overcome resistance to mutation-specific KRAS inhibitors in pancreatic ductal adenocarcinoma cell line.
1/04/2020	31/03/2021	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	Post-doc (assegno di ricerca). Research projects: 1) Study of the involvement of a calcium-binding protein in EGFR recycling in Non-Small Lung Cancer Cells (Manuscript under revision). 2) Analysis of enzymes involved in m6A^m RNA methylation in urine samples and tissue of clear cell renal carcinoma patients.
2016	2019	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	PhD/Dottorato di ricerca 1) Contribution of lncRNA LINC00174 into cell migration and lipid metabolism in Thymic Epithelial Tumors cells 2) Analysis of different microRNAs as diagnostics biomarkers in fresh tissues and urine & plasma ccRCC samples.

III- Teaching experience

Year	Institution	Lecture/Course
2022	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	Practical lessons of histology, using optical microscopy, to students of the Nursing bachelor course at University of Rome "La Sapienza"
2018	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	Lessons of cellular and molecular biology techniques (theory and practice) and use of optical microscopy to students of the Biomedical Laboratory Technician bachelor course at University of Rome "La Sapienza"
2017-2018	University of Rome "La Sapienza" Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences	Tutor of undergraduate and graduate students of Genetics and Molecular Biology and Biomedical Laboratory Technician bachelor courses at University of Rome "La Sapienza".

IV- Poster presentation to national and international congress

Year	Title
September 2022	<u>Tito C.</u> , Genovese I., Giamogante F., Miglietta S., Cristiano L., Masciarelli S., Nottola S.A., Familiari G., Petrozza V., Lauriola M., Tamagnone L., Calì T., Colotti G, Fazi F. Sorcin promotes cell proliferation, migration and invasion in cancer by regulating the EGF-dependent EGFR signaling pathways. Congresso Nazionale SIAI, Società Italiana di Anatomia e Istologia Padova
September 2021	<u>Tito C.</u> , Benedetti A., Genovese I., Masciarelli S., Giamogante F., Barazzuol L., Miglietta S., Familiari G., Petrozza V., Lauriola M., Tamagnone L., Ilari A., Calì T., Colotti G., Fazi F. Regulation of the EGFR endocytic route by an Endoplasmic Reticulum-related Ca ²⁺ binding protein. Congresso Nazionale SIAI, Società Italiana di Anatomia e Istologia Bologna
September 2019	<u>Tito C.</u> , Ganci F., Sacconi A., Gallo E., De Angelis L., Pulito C, Iaiza A, Masciarelli S., Cacciotti J., Petrozza V., Pescarmona E., Venuta F., Marino M., Blandino G., Fazi F. Long non-coding RNAs contribution to cell migration and lipid metabolism in Thymic Epithelial Tumor Cells. The Biennial Congress of ABCD Bologna
September 2017	<u>Tito C.</u> , Bellissimo T., Masciarelli S., Ganci F., Sorrentino V., Porta N., Cirenza M., Cavallaro G., Calogero A., Fontemaggi G., Petrozza V., Blandino G. and Fazi F. Contribution of miR-145-5p/AGO2 complex to the regulation of epithelial-mesenchymal transition. The Biennial Congress of ABCD Bologna
November 2016	Bellissimo T., <u>Tito C.</u> , Capuano E., Masciarelli S. and F. Fazi. Characterization of miR-145-5p contribution to the regulation of epithelial-mesenchymal transition. 7th Bemm Symposium, Rome

V- Training Course

Year	Institution	Course
2021	University of Rome "La Sapienza"	Scientific English Course (16 hours) with Professor Lewis Baker Formazione rischio covid-19 (Covid-19 risk training)
2018	Department of Biochemical Sciences "A. Rossi Fanelli", University of Rome "La Sapienza"	Bioinformatics Course on the theory and applications from genomes to drugs.
2016	Dpt. of Anatomical, Histological, Forensic and Orthopedic Sciences, University of Rome "La Sapienza"	Scientific English Course (16 hours) with Professor Lewis Baker

VI- Society memberships

Year Title

2017-2018	Member of Associazione di Biologia Cellulare e del Differenziamento
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VII- Funding Information [grants as I-investigator]

Year	Title	Program	Grant value
2021	RNA methylation factors as novel biomarkers in clear cell Renal Cell Carcinoma (ccRCC	Project Ateneo 2021 – University of Rome "La Sapienza"	10.000
2020	"Contribution and clinical relevance of m6A RNA Methylation Regulators in clear cell Renal Cell Carcinoma (ccRCC)"	Project Ateneo 2020 – Progetti Medi di Ateneo- University of Rome "La Sapienza"	33.787
2019	Evaluation of miR-210-3p contributio establishment and drug responsiveness of clear cell Renal Cell Carcinoma (ccRCC) and its relevance as potential biomarker for the metastatic progression	Project Ateneo 2019 - Progetti Medi di Ateneo – University of Rome "La Sapienza"	10.000
2018	Identification of clinical relevant Biomarkers to improve clear cell renal	Project Ateneo 2018 – Progetti Medi di Ateneo –	10.000

	cell carcinoma (ccRCC) management	University of Rome "La Sapienza"	
2018	Development of a therapeutic strategy based on ER and oxidative stress to target Acute Myeloid Leukemia	Project AIRC 2018 – Investigator Grant	519.000
2018	Development of a combination strategy based on ER and oxidative stress in Acute Myeloid Leukemia	Project Fondazione Cenci-Bolognetti - Call 2018 "Under 45"	40.000
2017	Modulation of EGFR signaling by cross-talk with other membrane pathways	PRIN 2017 - Progetto di Ricerca	213.000
2017	Characterization and clinical relevance of HIF-1 α /miR-210-3p-associated pathway in Clear Cell Renal Cell Carcino	Project Ateneo 2017 – Progetti Medi di Ateneo- University of Rome "La Sapienza"	9.000

VII- Research Activities

Keywords	Brief Description
Epigenetics; microRNA and long non-coding RNA	Study of the role of non-coding RNA in different type of cancer: 1) Characterization of functional role of miR-145-5p in Thymic Epithelial Tumors and its epigenetic transcriptional regulation. 2) Study of miR-145-5p as oncosuppressor gene in breast cancer. 3) Identification and description of the role of long non-coding RNA LINC-00174 in Thymic Epithelial Tumors. 4) Investigation of different microRNAs as diagnostic biomarkers for the evaluation of clinical outcomes and treatment response to clear cell Renal Cell Carcinoma (ccRCC). Analysis of miRNAs deregulated in tissues, urine and plasma ccRCC samples.
EGFR signaling pathway; Cancer development; Crosstalk in the microenviroment	1)Investigation of the regulation of EGFR protein and its downstream signaling pathway through modulation of calcium in lung cancer. 2) Study of the role of lncRNA in two mechanisms that characterize intercellular communication in the tumor microenviroment: the intracellular vesicular trafficking associated with RABs proteins and the secretion of extracellular vesicles.
Ferritin-derived nanocarriers; new therapeutic strategies	Treatment and testing the efficacy of mutation-specific KRAS inhibitors and degraders incorporated in nanocarriers, on cellular and animal models of KRAS-mutated pancreatic ductal adenocarcinoma cell line.

VIII- Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	12	PubMed	2017	2022

Total Impact factor	70.14
Total Citations	153
Average Citations per Product	12.75
Hirsch (H) index	8
Normalized H index*	1.33

*H index divided by the academic seniority

IX- Selected Publications

Authors, title, reference data from **PubMed**

Impact factor (IF) from **InCites Journal Citation Reports-ISI Web of Science**

Number of citations (cit) from **Scopus**

* co-first author

1) Bellissimo T., Ganci F., Gallo E., Sacconi A., **Tito C.**, De Angelis L., Pulito C., Masciarelli S., Diso D., Anile M., Petrozza V., Giangaspero F., Pescarmona E., Facciolo F., Venuta F., Marino M., Blandino G., and Fazi F. Thymic Epithelial Tumors phenotype relies on miR-145-5p epigenetic regulation. **2017** May 10 **Mol Cancer** 16(1):88 **IF:7,77 cit: 18**

2) Petrozza V., Pastore AL., Palleschi G., **Tito C.**, Porta N., Ricci S., Marigliano C., Costantini M., Simone G., Di Carlo A., Gallucci M., Carbone A. and Fazi F. Secreted miR-210-3p as non-invasive biomarker in clear cell renal cell carcinoma. **2017** Jun **Oncotarget**, 8(41):69551-69558 **IF:0 cit: 32**

3) Bellissimo T., **Tito C.***, Ganci F., Sacconi A., Masciarelli S., Di Martino G., Porta N., Cirenza M., Sorci M., De Angelis L., Rosa P., Calogero A., Fatica A., Petrozza V., Fontemaggi G., Blandino G., Fazi F. Argonaute 2 drives miR-145-5p-dependent gene expression program in breast cancer cells. **2019** Jan **Cell Death Dis.** 10(1):17. **IF:6.30 cit: 23**

4) Marigliano C., Badia S., Bellini D., Rengo M., Caruso D., **Tito C.**, Miglietta S., Palleschi G., Pastore AL., Carbone A., Fazi F., Petrozza V., Laghi A. Radiogenomics in Clear Cell Renal Cell Carcinoma: Correlations Between Advanced CT Imaging (Texture Analysis) and MicroRNAs Expression. **2019** Jan **Technol Cancer Res Treat.** 18:1533033819878458. **IF:2.07 cit: 8**

5) Petrozza V., Costantini M., **Tito C.**, Giammusso L.M., Sorrentino V., Cacciotti J., Porta N., Iaiza A., Pastore A.L., Di Carlo A., Simone G., Carbone A., Gallucci M., Fazi F., Emerging role of secreted miR-

210-3p as potential biomarker for clear cell Renal Cell Carcinoma metastasis (2020) **Cancer Biom** 27(2):181-188 **IF:4.38 cit: 17**

6) Genovese, I.; Giamogante, F.; Barazzuol, L.; Battista, T.; Fiorillo, A.; Vicario, M.; D'Alessandro, G.; Cipriani, R.; Limatola, C.; Rossi, D.; Sorrentino, V.; Poser, E.; Mosca, L.; Squitieri, F.; Perluigi, M.; Arena, A.; van Petegem, F.; **Tito, C.**; Fazi, F.; Giorgi, C.; Cali, T.; Ilari, A.; Colotti, G. Sorcin is an early marker of neurodegeneration, Ca²⁺ dysregulation and endoplasmic reticulum stress associated to neurodegenerative diseases **2020 Oct Cell Death & Disease** 11(10): 861. **IF:8.46. cit: 17**

7) **Tito, C.***; Ganci, F.; Sacconi, A.; Masciarelli, S.; Fontemaggi, G.; Pulito, C.; Gallo, E.; Laquintana, V.; Iaiza, A.; De Angelis, L.; Benedetti, A.; Cacciotti, J.; Miglietta, S.; Bellenghi, M.; Carè, A.; Fatica, A.; Diso, D.; Anile, M.; Petrozza, V.; Facciolo, F.; Alessandrini, G.; Pescarmona, E.; Venuta, F.; Marino, M.; Blandino, G.; Fazi, F. LINC00174 is a novel prognostic factor in thymic epithelial tumors involved in cell migration and lipid metabolism **2020 Nov Cell Death & Disease** 11(11):959 **IF:8.46. cit: 10**

8) **Tito C**, De Falco E, Rosa P, Iaiza A, Fazi F, Petrozza V, Calogero A. Circulating microRNAs from the Molecular Mechanisms to Clinical Biomarkers: A Focus on the Clear Cell Renal Cell Carcinoma. **2021 Jul Genes (Basel)**. 12(8):1154. **IF:4.14. cit: 7**

9) Iaiza A, **Tito C**, Ianniello Z, Ganci F, Laquintana V, Gallo E, Sacconi A, Masciarelli S, De Angelis L, Aversa S, Diso D, Anile M, Petrozza V, Facciolo F, Melis E, Pescarmona E, Venuta F, Marino M, Blandino G, Fontemaggi G, Fatica A, Fazi F. METTL3- dependent MALAT1 delocalization drives c-Myc induction in thymic epithelial tumors. **2021 Sep Clin Epigenetics**. 13(1):173. **IF:7.28. cit: 9**

10) Ianniello Z, Sorci M, Ginistrelli L.C, Iaiza A , Marchioni M, **Tito C** , Capuano E , Masciarelli S, Ottone T, Attrotto C , Rizzo M , Franceschini L, de Pretis S, Voso M.T, Pelizzola M , Fazi F , Fatica A, New insight into the catalytic -dependent and - independent roles of METTL3 in sustaining aberrant translation in chronic myeloid leukemia. **2021 Sep Cell Death & Disease** 12(10):870. **IF:9.69 . cit: 9**

11) Tagliaferro M, Rosa P, Bellenchi GC, Bastianelli D, Trotta R, **Tito C**, Fazi F, Calogero A, Ponti D. Nucleolar localization of the ErbB3 receptor as a new target in glioblastoma. **2022 Mar BMC Mol Cell Biol**. 23(1):13. **IF:2.81 cit: 3**

12) Iaiza A, **Tito C***, Ganci F, Sacconi A, Gallo E, Masciarelli S, Fontemaggi G, Fatica A, Melis E, Petrozza V, Venuta F, Marino M, Blandino G and Fazi F Long Non-Coding RNAs in the Cell Fate Determination of Neoplastic Thymic Epithelial Cells. **2022 April Front. Immunol.**, 13: 867181.**IF:8.78 cit: 0**

Place Rome

Firma

Date 04/01/2023



