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Decreto Rettore Università di Roma "La Sapienza" n. 1618/2025 del 30/05/2025

## ALESSIO MOLFINO

### Curriculum Vitae

Place: Rome

Date: 24 June, 2025

#### Part I – General Information

Full Name	Alessio Molfino
Spoken Languages	Italian, English

#### Part II – Education

Type	Year	Institution	Notes
University graduation	2003	Sapienza University of Rome	Master's Degree in Medicine and Surgery. 110/110 cum laude
Licensure	2004	Sapienza University of Rome	Licensed to practice as a Medical Doctor
Licensure	2004	Ordine Provinciale di Roma dei Medici Chirurghi ed Odontoiatri	Registration to Italian's Medical Board, position n. M 53263
Specialty	2008	Sapienza University of Rome	Residency in Internal Medicine (Internal Medicine Specialist). 70/70 cum laude
PhD	2012	University of Rome Tor Vergata	PhD program in Clinical and Preventive Nutrition. Cycle XXIV
Post-doc positions	2012-2015	Sapienza University of Rome	Post-doctoral Research Fellowships

## Part III – Appointments

### IIIA – Academic Appointments

Start	End	Institution	Position
2009	2015	Sapienza University of Rome	Teaching Assistant (“Cultore della materia”) for teaching activities of Internal Medicine (MED/09) of the Master’s Degree in Medicine and Surgery "B", Faculty of Medicine and Dentistry
2010	2015	Department of Internal Medicine, University of California, Davis, U.S.A.	Research Associate
2015	2018	Department of Translational and Precision Medicine (formerly Department of Clinical Medicine), Sapienza University of Rome, Rome, Italy	Assistant Professor (Researcher L.240/10 type B) of Internal Medicine (MED/09)
2016	2018	Sapienza University of Rome, Faculty of Medicine and Dentistry	Representative of the Assistant Professors on the Faculty Board
2018	present	Department of Translational and Precision Medicine, Sapienza University of Rome, Rome, Italy	Associate Professor of Internal Medicine (MEDS-05/A, ex MED/09)
2020	present	Ministry of University and Research (MUR)	National Scientific Qualification for Full Professor of Internal Medicine (GSD: 06/MEDS-05; SSD: MEDS-05/A, ex MED/09) (since November 12, 2020)
2019	Present	Sapienza University of Rome, Faculty of Medicine and Dentistry, Master’s Degree in Medicine and Surgery “B”	Vice-President
2019	Present	Sapienza University of Rome, Faculty of Medicine and Dentistry, Master’s Degree in Medicine and Surgery “B”	Appointed as the Coordinator in charge of planning and managing the rotation schedule for the Practical Evaluation Internship (TPVES).
2021	Present	Sapienza University of Rome, Faculty of Medicine and Dentistry	President of the Joint Student-Faculty Committee (Commissione Paritetica Docenti-Studenti – CPDS)
2018	Present	Sapienza University of Rome	Member of the Academic Board of the PhD Program in "Innovative Biomedical Technologies in Clinical Medicine” since the 34th cycle
2015	Present	Sapienza University of Rome	Scientific Secretary, Second Level Master’s degree in Clinical Nutrition and Metabolism
2016	2019	Sapienza University of Rome	Interfaculty Medical Education Committee (CMEI), participating in several working groups (Faculty

			development, skill labs, teaching methodologies, etc.)
2023	Present	Sapienza University of Rome, Residency Programme in Internal Medicine	Vice-Director
2018	Present	Sapienza University of Rome, QuID Program (Quality and Innovation in Teaching)	Tutor

#### IIIB – Other Appointments (including clinical activities)

<b>Start</b>	<b>End</b>	<b>Institution</b>	<b>Position</b>
2015	Present	Italian Society of Clinical Nutrition and Metabolism (SINuC)	Funder, Treasurer, and Member
December 2017	Present	Azienda Ospedaliera Universitaria Policlinico Umberto I, Roma	Medical Doctor in Internal Medicine and Clinical Nutrition – “UOC Medicina Interna e Nutrizione Clinica”. Specialist in Internal Medicine with inpatient responsibilities: management of acutely ill patients in Internal Medicine; provision of interdepartmental on-call coverage; consultancy in Internal Medicine and in Clinical and Artificial Nutrition; outpatient care in Internal Medicine and in Clinical and Artificial Nutrition, including home artificial nutrition services (“Nutrizione Artificiale Domiciliare”)

- Initially **Member of the organizing committee** and subsequently **Member of the Scientific Secretariat** for the conference 'Giornate Romane di Medicina Clinica', promoted by the Department of Clinical Medicine, Sapienza University of Rome (2004 – 2019), providing Continuing Medical Education (CME).
- **Co-author** of the national report 'The Nutritional Emergency in Oncology: an unmet need' within the VIII Report on the State of Cancer Patient Care in Italy. This report focused on the development of national initiatives to raise awareness on nutritional care in oncology, in collaboration with the Italian Ministry of Health, scientific societies, healthcare institutions, and patient advocacy organizations, including the “Federazione Italiana delle Associazioni di Volontariato in Oncologia” (FAVO) (2016).
- **Scientific Coordinator** of the national project 'I Fogli di Roma – Present and Future of Clinical Nutrition in Italy,' within the framework of the NUTREND<sup>®</sup> Forum organized by the Italian Society for Clinical Nutrition and Metabolism (SINuC). **Co-chair** of the thematic area on 'Education: Teaching of Human and Clinical Nutrition in the Accademic Curriculum,' promoting academic strategies to enhance nutritional education in medical training (2018).
- **Speaker**, 4th Seminar on Nutrition in Patients Undergoing Gastric Resection, organized by the ODV Association “Vivere senza stomaco (si può)”. Presentation title: “I can’t eat enough: are there any effective remedies?” (May 5, 2021).
- **Speaker**, public event organized by the Regional Council of Lazio: “Stop alla morte... diventa ambasciatore della sicurezza stradale”, in collaboration with MIDA Academy and the IURIS Association for Victims of Duty of the State Police. Presentation title: “Alcoholism: causes, symptoms, and Internal Medicine issues” (December 14, 2023).
- **Lecturer**, PTCO 2023/2024 program (Transversal Skills and Career Guidance Pathways) for high school students entitled “Use of Information Technology in the Biomedical Field”, Department of Translational and Precision Medicine, Sapienza University of Rome. Lecture title: “Artificial Intelligence in Medicine” (January 23, 2024).
- **Speaker**, event titled “Living well every day: the power of small choices”, part of the cultural and social initiatives promoted by students of Sapienza University of Rome. Presentation title: “Nutrition and lifestyle” (April 18, 2024).
- **Lecturer**, PTCO 2025 program (Transversal Skills and Career Guidance Pathways) for high school students entitled “Use of Information Technology in the Biomedical Field”, Department of Translational and Precision Medicine. Sapienza University of Rome. Lecture title: “Traditional Medicine and Artificial Intelligence” (February 20, 2025).
- **Participant** at the public engagement initiative “Padel e Salute – Capire per Prevenire” organized by Sapienza University of Rome and AOU Policlinico Umberto I, as a representative of the Clinical Nutrition Unit, contributing to community health promotion through multidisciplinary consultations and preventive education (Jun 6-8, 2025).
- **Participant** at the event “Il Goal della Vita – IV Edizione: Cybersicurezza – Sport – Salute e Spirito nel Giubileo” held in Rome, contributing to discussion on the intersection of cybersecurity, sports, and health in the context of the Jubilee Year (June 12, 2025).

## Part IV – Teaching experience

Year	Institution	Lecture/Course
2009–2015	Sapienza University of Rome	Teaching Assistant (“Cultore della materia”) of the Integrated Course of Clinical Medical Scientific Methodology VI, 3rd year, 2nd semester, Master’s Degree in Medicine and Surgery "B", Faculty of Medicine and Dentistry
2009 – present	Sapienza University of Rome	Member of the Scientific Committee, Lecturer (since 2011), Scientific Secretary (since 2016), Second-level Master in Clinical Nutrition and Metabolism
2011	University of California, Davis (USA)	Lecturer for Nephrology Fellows (Grand Rounds), Department of Internal Medicine, Division of Nephrology: "Appetite dysregulation in hemodialysis patients"
2011	Università Campus Bio-Medico, Rome	Lecturer in the Second-level Master in Clinical Risk Management: "Artificial Nutrition"
2012–2015	Sapienza University of Rome	Teaching Assistant (“Cultore della materia”) of the Integrated Course of Internal Medicine and General Surgery II, (SSD MED09), 6th year, 1st semester, Master’s Degree in Medicine and Surgery "B", Faculty of Medicine and Dentistry
2013–2018	Sapienza University of Rome	Teaching activity for the Journal Club, Master’s Degree in Medicine and Surgery "F" (course in English), 2nd year, Faculty of Pharmacy and Medicine
2013	University of California, Davis (USA)	Lecturer for Nephrology Fellows (Grand Rounds), Department of Internal Medicine, Nephrology Division: "Anorexia and protein-energy wasting in end-stage renal disease"
2015–present	Sapienza University of Rome	<p>Lecturer as Assistant Professor (Researcher L.240/10 type B) (2015-2018) and as Associate Professor (2018-present) for MEDS-05/A (ex-MED/09) in the following courses:</p> <p>-Integrated Course of Clinical Medical Scientific Methodology (VI), 3rd year, 2nd semester Master’s Degree in Medicine and Surgery "B", Faculty of Medicine and Dentistry</p> <p>-Integrated Course of Internal Medicine and General Surgery II, 6th year, 1st semester, Master’s Degree in Medicine and Surgery "B", Faculty of Medicine and Dentistry</p>
2015–present	Sapienza University of Rome	Supervisor and Co-Supervisor of experimental theses in Internal Medicine, Master’s Degree in Medicine and Surgery, Faculty of Medicine and Dentistry

2016– present	Sapienza University of Rome	Lecturer in the Residency Program (“Scuola di Specializzazione) in Internal Medicine
2016– present	Sapienza University of Rome	Member of the Interfaculty Medical Education Commission (CMEI), and of several working groups including: - Faculty development - Setup and management of a skill lab - Evaluation of new teaching methods: visual thinking strategy - Teaching and assessment of English Language - Testing of the Access-Medicine platform
2018– present	Sapienza University of Rome	Lecturer for MEDS-05/A (ex MED/09) in Integrated Course of Applied Medical Scientific Methods VIII, renamed as Applied Medical Scientific Methods II, 4th year, 2nd semester, Master’s Degree in Medicine and Surgery "F" (English language), Faculty of Pharmacy and Medicine
2018– present	Sapienza University of Rome	Lecturer of the Academic Board of the PhD Program in "Innovative Biomedical Technologies in Clinical Medicine” since the 34th cycle
2018– present	Sapienza University of Rome	Lecturer in the Residency Program (“Scuola di Specializzazione) in Oncology
2018	Sapienza University of Rome and AOU Sant’Andrea, Rome	Lecturer at the course “Simultaneous care: main diagnostic and therapeutic issues, management of the oncohematologic patient, integration with local healthcare services”
2019– present	Sapienza University of Rome	Lecturer in the Residency Program (“Scuola di Specializzazione) in Food and Nutrition Science (“Scienza dell’Alimentazione”)
2019– present	Sapienza University of Rome	Lecturer for MEDS-05/A (ex MED/09) in Integrated Course of Dietetic and Clinical Nutrition, Bachelor’s degree in Dietetics
2019– present	Sapienza University of Rome	Tutor of the Practical Evaluation Internship (TPVES) in Internal Medicine for the students of Medicine and Surgery "B", Faculty of Medicine and Dentistry
2020	Sapienza University of Rome	Lecturer for MEDS-05/A (ex MED/09) Malnutrition, clinical impact and sustainability of socio-health systems – Training Course “Sustainability Sciences” – Interfaculty Course
2020- present	Sapienza University of Rome	Lecturer for Second-level Master in Integrated Oncology
2024	Sapienza University of Rome	Lecturer for Second-level Master in Immuno-Oncology and Cellular Therapies
2025	Sapienza University of Rome	Lecturer for Second-level Master in Mutational Oncology and Precision Medicine

## Part V - Society memberships, Awards and Honors

Year	Society memberships. Role for the Society
2008 - present	Member of the Italian Society of Internal Medicine (SIMI)
2010 - present	Member of the European Society for Clinical Nutrition and Metabolism (ESPEN)
2010 – 2015	Member of the Italian Society of Artificial Nutrition and Metabolism (SINPE)
2015 - present	Founder, Member and Treasurer of the Italian Society for Clinical Nutrition and Metabolism (SINuC)
2020 - present	Coordinator and Member of Special Interest Groups (SIG) "Cachexia-anorexia in chronic wasting diseases" of European Society for Clinical Nutrition and Metabolism (ESPEN)

Year	Awards and Honors
2005	Young Investigator Award, SIMI, for the abstract " <i>Anorexia in hemodialysis patients: role of ghrelin</i> ", presented as Oral Communication at the 106th Congress of the Italian Society of Internal Medicine, Rome, October 18-21, 2005
2005	Best Poster Award, SIMI, for the abstract " <i>Myostatin gene expression is increased by the presence of neoplasia</i> ", presented at the 106th Congress of the Italian Society of Internal Medicine, Rome, October 18-21, 2005
2006	Young Investigator Award, SIMI, for the abstract " <i>Nicotine administration improves the anorexia-cachexia syndrome in an experimental model of cancer</i> ", presented as Oral Communication at the 107th National Congress of the Italian Society of Internal Medicine, Cagliari, October 21-24, 2006
2007	Young Investigator Award, SIMI, for the abstract " <i>Effect of topiramate administration on weight and body composition in women with migraine</i> ", presented as Oral Communication at the 108th Congress of the Italian Society of Internal Medicine, Rome, October 20-23, 2007
2008	Young Investigator Award, SIMI, for the abstract " <i>Pathogenesis, prevalence, and clinical impact of anorexia in the elderly</i> ", presented as Oral Communication at the 109th National Congress of the Italian Society of Internal Medicine, Rome, October 25-28, 2008
2008	Best Poster Award, SIMI, for the abstract " <i>Counseling and nutritional support improve prognosis in hemodialysis patients</i> ", presented at the 109th National Congress of the Italian Society of Internal Medicine, Rome, October 25-28, 2008
2009	Winner of the selection by SIMI to participate in the 12th Course of the European School of Internal Medicine, Greenwich Maritime University, London, September 7-12, 2009
2009	Best Poster Award, SIMI, for the abstract " <i>Stability of an oral L-glutamine preparation after dilution</i> ", presented at the 110th Congress of the Italian Society of Internal Medicine, Rome, October 24-27, 2009
2009	Young Investigator Award, SIMI, for the abstract " <i>Amyotrophic lateral sclerosis, enteral nutrition, and altered iron metabolism</i> ", presented as Oral Communication at the 110th Congress of the Italian Society of Internal Medicine, Rome, October 24-27, 2009
2011	Winner of the selection by the European Federation of Internal Medicine (EFIM) for the best young internal medicine specialists under 35 years of age to participate in the Clinical Research Course, Paris, October 17-19, 2011

2011	Young Investigator Award, SIMI, for the abstract " <i>A model to calculate fat mass in hemodialysis patients accounting for expansion of extracellular fluid: a comparison between BIS and DXA</i> ", presented as Oral Communication at the 112th National Congress of the Italian Society of Internal Medicine, Rome, October 22-25, 2011
2013	Best Poster Award, SIMI, for the abstract " <i>Agreement between MNA, MUST and NRS in the evaluation of nutritional risk in elderly institutionalized subjects</i> ", presented at the 114th National Congress of the Italian Society of Internal Medicine, Rome, October 26-28, 2013
2013	Best Oral Communication Award, SINPE 2013, for the abstract " <i>Evaluation of hypothalamic activity in cancer anorexia by functional magnetic resonance</i> ", presented at the 16th National Congress of the Italian Society of Artificial Nutrition and Metabolism (SINPE), Ancona, November 28-30, 2013
2014	Awarded "Graduate of the Year", Sapienza University of Rome, May 8, 2014. This prize is awarded through a selection of all Departments and Faculties of Sapienza University to a young graduate distinguished internationally for research activity including awards and fellowships
2015	Best Poster Award, SIMI, for the abstract " <i>Anorexia in cancer patients: evaluation of hypothalamic dysfunction by functional magnetic resonance imaging (fMRI) and its association with inflammation, ghrelin and leptin</i> ", presented at the 116th National Congress of the Italian Society of Internal Medicine, Rome, October 10-12, 2015
2016	Best Poster Award, SIMI, for the abstract " <i>The myokine beta-aminoisobutyric acid and physical inactivity in hemodialysis patients</i> ", presented at the 117th National Congress of the Italian Society of Internal Medicine, Rome, October 14-16, 2016
2017	Winner of the Clinical Symposia session for the clinical case " <i>When heart and intestine are connected: an exemplifying case of diarrhea</i> ", presented at the 118th National Congress of the Italian Society of Internal Medicine (SIMI), Rome, October 27, 2017
2019	Awarded among the best oral presentations at the 120th National Congress of the Italian Society of Internal Medicine (SIMI), title of the presentation: "Nutritional, metabolic, and hormonal derangements among subjects professionally exposed to urban pollution in a high intensity traffic area in Italy"
2020	Awarded among the best poster at the 13th SCWD Conference, online, Title of the poster: Adipose tissue browning changes in cancer cachexia
2020	Awarded among the best poster at the 13th SCWD Conference, online, Title of the poster: Circulating levels of FGF-21 and muscle-related miRNAs in cancer patients
2021	Oral communication at the 122nd National Congress of the Italian Society of Internal Medicine (SIMI), title of the presentation: "Cachexia in gastrointestinal cancer patients: analysis of white adipose tissue in terms of morphological and inflammatory changes and its relationship with body composition analysis"

**Part VI - Participation on the Editorial Board of PubMed-indexed international peer-reviewed journals**

<b>Journal</b>	<b>Position</b>
Frontiers in Nutrition – Clinical Nutrition section	Associate Editor
NUTRITION	Member of the Editorial Board
JCSM Rapid Communications	Associate Editor
Heliyon	Member of the Editorial Board
Frontiers in Public Health	Guest Associate Editor
Frontiers in Molecular Diagnostics and Therapeutics	Associate Editor
Frontiers in General Cardiovascular Medicine	Guest Associate Editor
Frontiers in Nutrition and Metabolism	Guest Associate Editor
Frontiers in Healthy Longevity	Review Editor
Journal of Personalized Medicine	Member of the Editorial Board (Section Board Member)

**Part VII - Funding Information [grants as Principal investigator, Investigator or Tutor of the project]**

<b>Year</b>	<b>Title</b>	<b>Program</b>	<b>Grant value<sup>#</sup></b>
2005	Branched-chain amino acids in the treatment of muscle atrophy during cancer cachexia: interference with molecular targets – <b>Investigator</b> (Prot n.: 2005060735_003)	Sapienza University of Rome, “Progetto di Unità di Ricerca – modello B”	N/A
2007	Oxidative stress and neoplastic anorexia-cachexia syndrome: evaluation of the efficacy of antioxidant supplementation in neoplastic rats - <b>Investigator</b> (Prot n.: C26A07J5K5)	Sapienza University of Rome, “Progetto di Ricerca di Università (ex Ateneo)”	N/A
2007	Effects of administration of an antioxidant-enriched diet on anorexia-cachexia syndrome in experimental models of cancer - <b>Investigator</b> (Prot n.: C26F074597)	Sapienza University of Rome, “Progetto di Ricerca di Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS”	N/A
2008 – 2010	PRIN 2008: Possible role of the dystrophin system in the pathogenesis of muscle atrophy in neoplasia – <b>Investigator</b> (National Coordinator of the project: Professor Rossi Fanelli F. – Prot. n 20077ZRW9C_001)	Ministry of Education, University and Research (MIUR)	N/A
2008 – 2009	New molecular targets for the prevention and treatment of muscle mass loss during cancer – <b>Investigator</b> (Prot n.: C26A08J3C9 and C26A09Y33B)	Sapienza University of Rome, “Progetto di Ricerca di Università (ex-Ateneo)”	N/A
2008 – 2009	Role of the Nutrition MedPass program on the nutritional status and morbidity of patients admitted to a medical ward - <b>Investigator</b> (Prot n.: C26F088X3R and C26F09N4KT)	Sapienza University of Rome, “Progetto di Ricerca di Ateneo Federato delle Scienze delle Politiche Pubbliche e Sanitarie SPPS”	N/A
2011	Prevalence and determinants of malnutrition in nursing homes in the Lazio Region - <b>Investigator</b> (Prot n.: C26A11WK89)	Sapienza University of Rome, “Progetto di Ricerca di Università”	N/A
2012	Effect of the preoperative supplementation with immunonutrients on cancer inflammatory microenvironment - <b>Investigator</b> (Prot n.: C26A12YHC8)	Sapienza University of Rome, “Progetto di Ricerca di Università”	€ 8.000
2013	Vitamin D signaling and molecular mechanisms of muscle atrophy during cancer - <b>Investigator</b> (Prot n.: C26A12YHC8)	Sapienza University of Rome, “Progetto di Ricerca di Università”	€ 14.500
2013	Marginal donor liver transplantation: new techniques for perfusion and graft maintenance - <b>Investigator</b> (Prot n.: C26N13RJAH)	Sapienza University of Rome, “Progetto di Avvio alla Ricerca”	N/A
2016	Cancer anorexia: epigenetic mechanisms underlying the loss of appetite in lung cancer	Sapienza University of Rome, “Progetti medi”	€ 8.000

	patients – <b>Principal Investigator</b> (Prot n.: RM11615500F8855D)		
2017	Role of Growth and Differentiation Factor 15 (GDF-15) and MicroRNAs in the pathogenesis of sarcopenia in lung cancer patients – <b>Investigator</b> (Prot n.: RG11715C7E5E4516)	Sapienza University of Rome, “Progetti grandi”	€ 30.000
2018	The adipose tissue in cancer cachexia: a study of the lipolytic mechanisms and thermogenic changes determining perturbed energy balance – <b>Principal Investigator</b> (Prot n.: RG11816427B021CF)	Sapienza University of Rome, “Progetti grandi”	€ 30.000
2019	Role of muscle microRNAs in the pathogenesis of sarcopenia associated and not with obesity in women with breast cancer - <b>Principal Investigator</b> (Prot n.: RM11916B7ABE5965)	Sapienza University of Rome, “Progetti medi”	€ 11.000
2019	Use of near-infrared fluorescence imaging with indocyanine green (ICG) in laparoscopic and oncologic surgery for optimizing surgical outcomes – <b>Investigator</b> (Prot n.: MA21916B7A79DBBF)	Sapienza University of Rome, “Progetti Medie Attrezzature 2”	€ 53.000*
2020	Epigenetics-driven mechanisms determining anorexia and muscle loss in cancer– <b>Principal Investigator</b> (Prot n.: RG120172B8DFB08E)	Sapienza University of Rome, “Progetti grandi”	€ 40.000
2020	Cholangiocytes pathophysiology and Cholangiocarcinoma – <b>Investigator</b> (Prot n.: GA12017300CF936D)	Sapienza University of Rome, “Grandi attrezzature”	€ 579.767*
2021	Assessment of a signature profile of pro-resolving lipid mediators in women with breast cancer - <b>Investigator</b> (Prot n.: RM12117A86CCB2C6)	Sapienza University of Rome, “Progetti medi”	€ 10.000
2021	Assessment of circulating Lipocalin 2 levels in cancer-associated anorexia – <b>Tutor of the project</b> (Prot n.: AR12117A788EA3F1)	Sapienza University of Rome, “Avvio alla ricerca tipo 1”	€ 1.500
2021	High-parameter spectral cell sorting for the study of inflammation and immunity in metabolic diseases - <b>Investigator</b> (Prot n.: GA12017300CF936D)	Sapienza University of Rome, “Grandi attrezzature”	€ 490.000*
2021	Studying the involvement of M1/M2 macrophages in subcutaneous, peritumoral adipose tissue and in colorectal cancer tissue according to the presence/absence of cachexia - <b>Tutor of the project</b> (Prot n.: AR12117A8001CE49)	Sapienza University of Rome, “Avvio alla ricerca tipo 1”	€ 1.500
2022	Adipose and muscle related microRNAs in the pathophysiology of changes in adiposity and sarcopenic obesity in women with breast cancer - <b>Principal Investigator</b> (Prot n.: RG1221816C673852)	Sapienza University of Rome, “Progetti grandi”	€ 46.561

2022	MicroRNAs as potential target for adipose tissue lipolysis in patients with cancer cachexia - <b>Tutor of the project</b> (Prot n.: AR1221816C72B9CD)	Sapienza University of Rome, “avvio alla ricerca tipo 1”	€ 1.250
2022 – present	PRIN 2022: The Energy Crisis in The Nerve-Muscle System As A Driver Of Cancer Cachexia: Innovative Mitochondria-Targeted Strategies – <b>Principal Investigator</b> of the Research Unit of Sapienza University of Rome (National Coordinator of the project: Professor Costelli P. – CUP: B53D23020360006) and <b>Tutor</b> of post-doc receiving 12 months research fellowship (“Assegno di ricerca”)	Minister of University and Research (MUR)	€ 85.895
2022 - present	RT_SPOKE_6 - Rome Technopole - Spoke 6 -B83C22002820006 - ECS 000000024 – <b>Investigator</b>	Minister of University and Research (MUR) - PNRR	€ 16.350
2022 - present	PE10-ONFOODS-SPOKE-6 - PE10-ON FOODS- Research and innovation network on food and nutrition sustainability, safety and security - WORKING ON FOODS-SPOKE 6 - B53C22004030001 - PE_000000003 - <b>Investigator</b>	Minister of University and Research (MUR) - PNRR	€ 42.444,78
2023	Analysis of Circulating Tumor Cell phenotypes, clusters and ctDNA profile in Hormone Receptor-positive metastatic Breast Cancer patients. LUM-LIQUID1 – <b>Investigator</b> (Prot n.: RM123188D81E02BB)	Sapienza University of Rome, “Progetti medi”	€ 10.600
2023	Serological evaluation of tumor-related factors in gastrointestinal cancer patients with and without cachexia - <b>Tutor of the project</b> (Prot n.: AR123188B4CFEFE4)	Sapienza University of Rome, “avvio alla ricerca tipo 1”	€ 2.000
2024	Gut microbiome profiling in breast cancer patients and association with adherence to Mediterranean diet and physical activity level - <b>Principal Investigator</b> (Prot n.: RG124190BB492794)	Sapienza University of Rome, “Progetti grandi”	€ 29.600
2024	Assessment of circulating adipose tissue-specific miRNAs with changes in body composition in patients with a new diagnosis of breast cancer - <b>Tutor of the project</b> (Prot n.: AR12419078514748)	Sapienza University of Rome, “avvio alla ricerca tipo 1”	€ 1.500

# N/A: data on the initial amount of the fund not available from the administration office

\* Total amount for the entire project

## Part VIII

- **Organization, leadership, and coordination of national and international research groups, or active participation;**
- **Coordination and active involvement in multicenter scientific research projects at national and international level**

Start	End	Institution	Position
2009	2010	Italian Society of Internal Medicine (SIMI) and Aventis Foundation	Principal Investigator for a research project on the pathophysiology and neuroimaging of cancer-associated anorexia in lung cancer patients. This project was selected as the “Research Award in Internal Medicine 2009”
2010	2015	University of California, Davis, USA	Principal Investigator of a multicenter study for the validation of diagnostic tools for uremic anorexia in hemodialysis patients. First author of a publication in J Ren Nutr 2016;26:103–110. doi:10.1053/j.jrn.2015.09.002
2012	2013	Italian Scleroderma Foundation (GILS ONLUS)	Co-Principal Investigator (for the nutritional aspects) for the study 'Gastrointestinal damage, gut microbiota alterations and malnutrition in systemic sclerosis patients'
2012	2013	National Cancer Research Centre Istituto Tumori “Giovanni Paolo II” Bari (Italy) through the Italian Ministry of Health	Co-Principal Investigator in collaboration with Professor Catherine M. Alfano, from National Cancer Institute/National Institutes of Health, Bethesda, Maryland, USA. Multidimensional assessment of long-term cancer survivors including discovery of genetic bases of susceptibility, depressive stage, prevention of affective disorder. Second author of a publication in Cancer 2013;119:2143-50. doi: 10.1002/cncr.28062
2012	2014	Fondazione Umberto Veronesi	Principal Investigator for the “Young Investigator Programme” research project, funded through an international competitive peer-reviewed call. Project title: “Neuroimaging of hypothalamic activity, inflammation and hormonal profile in cancer anorexia.” Results published as first author in J Cachexia Sarcopenia Muscle 2017;8:40-47. doi: 10.1002/jcsm.12156
2014	2015	Italian Society of Nephrology (SIN)	Member of the steering committee for the multicenter study 'MIOSIN'. Senior author of a publication in Nutrition

			2019;62:108-114. doi: 10.1016/j.nut.2018.12.005
2014	2016	Fondazione Umberto Veronesi	Principal Investigator for the “Young Investigator Programme” research project, funded through an international competitive peer-reviewed call. Project title: “Effect of oral supplementation of docosahexaenoic acid (DHA) on omega-3 index and inflammatory markers in breast cancer patients.” Results published as first author in Front Physiol 2017; 8:549. doi: 10.3389/fphys.2017.00549, and as first author in Oxid Med Cell Longev 2019; 2019:1280987. doi: 10.1155/2019/1280987
2014	2016	Helsinn Healthcare SA, Switzerland	Co-Principal Investigator of a multicenter study on gaining insights into cancer cachexia awareness, understanding, and treatment practices among health care professionals. Senior author of a publication in Ann Oncol 2016;27:2230-2236. doi: 10.1093/annonc/mdw420
2015	2021	Italian Society of Clinical Nutrition and Metabolism (SINuC), Italian Society of Oncologic Surgery (SICO)	Coordinator of the multicenter study project 'Prevalence of Malnutrition in Surgery' (PrOMiS)
2016	Present	European Cancer Patient Coalition	Coordinator of the multicenter European study on metabolic-nutritional alterations in cancer survivors. Co-first author of a publication in J Cachexia Sarcopenia Muscle 2019;10:517-525. doi: 10.1002/jcsm.12420
2016	Present	University of Rouen Normandie, Rouen, France and Sapienza University of Rome	Coordinator of a research project on the pathophysiology of cancer anorexia and its clinical impact, focusing on the changes of gut microbiome. Results published as first author in Nutrition 2020;78:110952. doi:10.1016/j.nut.2020.110952
2017	2019	Biophytis SA, France	Member of the steering committee for the SARA-OBS multicenter trial on sarcopenia, registered on clinicaltrials.gov (NCT03021798)
2017	2020	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Medium Research Projects - Sapienza University Research Grant Call 2016” (prot. RM11615500F8855D). Project title: “Cancer anorexia: epigenetic

			mechanisms underlying the loss of appetite in lung cancer patients.” Results published as first author in Clin Nutr 2023;42:9-17. doi: 10.1016/j.clnu.2022.11.013 and as first author in Nutrients 2024;16:3721. doi: 10.3390/nu16213721
2017	2024	University of California, Davis, USA	Investigator of a study conducted in US on metabolic and nutritional factors associated with liver fibrosis in different ethnic groups (PI: Prof. V. Medici). Senior author of a publication in J Investig Med 2024; 72:697-704. doi: 10.1177/10815589241262004
2018	2021	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Major Research Projects - Sapienza University Research Grant Call 2018” (prot. RG11816427B021CF). Project title: “The adipose tissue in cancer cachexia: a study of the lipolytic mechanisms and thermogenic changes determining perturbed energy balance.” The project also awarded a 12-month research fellowship (“Assegno di Ricerca”) under the scientific supervision of Prof. Alessio Molfino.  Results published as: -first author in J Cachexia Sarcopenia Muscle 2022;13:333-342. doi: 10.1002/jcsm.12893; - first author in Cancers (Basel) 2022;14:1948. doi: 10.3390/cancers14081948; - senior author in Cancer Metab 2024;12:1. doi: 10.1186/s40170-023-00329-9. Other publications on this topic include: - as first author in Curr Opin Clin Nutr Metab Care 2023;26:235-242. doi: 10.1097/MCO.0000000000000923. - as first author in Trends Endocrinol Metab 2021;32:957. doi: 10.1016/j.tem.2021.08.007
2018	2021	Sapienza University of Rome	Investigator of a multicenter study involving 7 cancer centers across Europe and Central America on the validation of clinical tools for the

			diagnosis of anorexia in cancer patients. Results published as first author in Clin Nutr 2021;40:4037-4042. doi:10.1016/j.clnu.2021.02.016
2018	Present	Italian Society of Clinical Nutrition and Metabolism (SINuC), Italian Gastric Cancer Research Group (GIRCG), 'Vivere senza stomaco si può - Onlus'	Coordinator of the multicenter project 'Glycemic variability in gastrectomized patients'
2018	Present	Italian Society of Internal Medicine (SIMI)	Member of the steering committee of the SIMI-NUTRO multicenter study on the prevalence and impact of malnutrition in Internal Medicine wards (Results published as senior author in Eur J Intern Med 2025; S0953-6205(25)00217-1. doi: 10.1016/j.ejim.2025.05.025)
2018	Present	Helsinn Healthcare SA, Switzerland	Member of the steering committee for the phase III international multicenter trial on anamorelin HCl for NSCLC cachexia, registered on clinicaltrials.gov (NCT03743051)
2019	2022	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Medium Research Projects - Sapienza University Research Grant Call 2019” (prot. RM11916B7ABE5965). Project title: “Role of muscular microRNAs in the pathogenesis of sarcopenia associated and not associated with obesity in women with breast cancer”
2020	2023	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Major Research Projects - Sapienza University Research Grant Call 2020” (prot. RG120172B8DFB08E). Project title: “Epigenetics-driven mechanisms determining anorexia and muscle loss in cancer” Results published as first author in J Cachexia Sarcopenia Muscle 2023;14:2692-2702. doi: 10.1002/jcsm.13343. Other publication on this topic includes Int J Mol Sci 2021; 22:9007. doi: 10.3390/ijms22169007
2021	2023	Sapienza University of Rome	Supervisor of a peer-reviewed research project, “Start-up Research Projects - Type 1 2021” (prot. AR12117A788EA3F1). Project title: “Assessment of circulating Lipocalin 2 levels in cancer-associated anorexia”

2022	Present	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Major Research Projects - Sapienza University Research Grant Call 2022” (prot. RG1221816C673852). Project title: Adipose and muscle related microRNAs in the pathophysiology of changes in adiposity and sarcopenic obesity in women with breast cancer
2022	2024	Sapienza University of Rome	Supervisor of a peer-reviewed research project, “Start-up Research Projects - Type 1 2022” (prot. AR1221816C72B9CD). Project title: “MicroRNAs as potential target for adipose tissue lipolysis in patients with cancer cachexia”
2023	Present	Sapienza University of Rome	Supervisor of a peer-reviewed research project, “Start-up Research Projects - Type 1 2023” (prot. AR123188B4CFEFE4). Project title: “Serological evaluation of tumor-related factors in gastrointestinal cancer patients with and without cachexia”
2024	Present	Sapienza University of Rome	Principal Investigator of a peer-reviewed research project, “Major Research Projects - Sapienza University Research Grant Call 2022” (prot. RG124190BB492794). Project title: “Gut microbiome profiling in breast cancer patients and association with adherence to Mediterranean diet and physical activity level”
2024	Present	Sapienza University of Rome	Supervisor of a peer-reviewed research project, “Start-up Research Projects - Type 1 2024” (prot. AR12419078514748). Project title: “Assessment of circulating adipose tissue-specific miRNAs with changes in body composition in patients with a new diagnosis of breast cancer”

## Part IX – Speaker at national and international congresses and conferences

Year	Congress/Conference	Title of the presentation	Role
2009	DXA (Dual-energy X-ray Absorptiometry) Course, Sapienza University of Rome	Body composition, DXA assessment	Speaker
2009	VIII National Course Progress in Clinical Nutrition, Ancona	Nutrition and cancer	Speaker
2009	XIV National Congress of the Italian Society of Artificial Nutrition and Metabolism (SINPE), Caserta	Glutamine and glycemic control	Speaker
2010	Residential Course: Clinical Nutrition Meets Intensive Care and Emergency Medicine, Rome	Heat-shock proteins, incretins, and nutrition in intensive care	Speaker
2010	Event: “Essential Amino Acids in Disease Management”, Berlin	Metabolic and clinical effects of essential amino acids supplementation in critically ill patients	Speaker
2011	XIII National Congress of the “Associazione Italiana di Oncologia Medica” (AIOM), Bologna	Malnutrition	Speaker
2012	IV Regional Congress of the “Società Italiana di Medicina Interna” (SIMI) section Lazio-Molise, Rome	Frailty in aging: malnutrition	Speaker
2012	Residential Course: Clinical Nutrition Meets Palliative Care, Rome	Appetite modulation in palliative care patients	Speaker
2012	Interactive Course: Clinical Nutrition in Internal Medicine, 113th National Congress SIMI, Rome	Mechanisms and diagnosis I: anorexia and hypophagia (practical demonstration of questionnaires for appetite and satiety assessment); Enteral nutrition: indications and accesses (interactive discussion and practical demonstration)	Speaker
2013	ULSS 7 Veneto Update Course "Malnutrition: a disease within a disease", Treviso	Malnutrition in cancer patients	Speaker
2013	SINPE Spring Event, Siena	Peritumoral inflammation and prognosis	Speaker
2013	Top Ten 2013, Clinical Nutrition in the Elderly, Sapienza University of Rome	Malnutrition in the elderly: a preventable comorbidity	Speaker
2013	Third Mediterranean Congress on Innovative Scenarios in Internal Medicine, Palermo	Enteral nutrition: indications, accesses, and complications	Speaker

2013	Residential Course: Clinical Nutrition Meets Geriatrics, Rome	Pharmaconutrition in sarcopenia	Speaker
2013	Nutrients Beyond Nutrition 2, Rezzato, Brescia	Non-amino acid substrates: novel evidence	Speaker
2013	The Cancer Patient and Nutrition: From Prevention to Therapy, Naples	From malnutrition to cachexia	Speaker
2014	Clinical Nutrition Meets Nephrology, Rome	Anorexia and wasting in chronic kidney disease	Speaker
2014	X-Files in Clinical and Artificial Nutrition Congress, Genoa	Toxicity and nutrition	Speaker
2014	ESMO (European Society For Medical Oncology) Congress 2014, Madrid	Weight loss and chemotherapy toxicity: how and why	Speaker
2014	Nutrients Beyond Nutrition 3, Bari	Carnitine supplementation and energy metabolism in clinical practice	Speaker
2014	Interactive Course: Clinical Nutrition in Internal Medicine, 115th Congress SIMI, Rome	Multiple lectures and case discussions on anorexia, malnutrition, appetite assessment, and enteral nutrition	Speaker
2014	SINPE Monothematic Meeting, Rimini	Eating behavior and body composition in hemodialysis patients	Speaker
2014	International Society of Pediatric Wound Care (ISPeW) Conference, Rome	Multidisciplinary approach to pressure ulcers: the role of nutrition	Speaker
2015	SINPE Spring Event, Rome	Nutritional goals in cancer patients according to guidelines	Speaker
2015	SINPE Spring Event, Rome	Pathogenetic mechanisms of cancer cachexia: anorexia and hypophagia	Speaker
2015	Clinical Nutrition Meets Gastroenterology Course, Rome	Guidelines: enteral nutrition in gastroenterology	Speaker
2015	Metabolic Demands and Dietary Therapy in Nephropathy, Rome	Amino acids, ketoanalogues, and supplemental therapy	Speaker
2015	Human Nutrition: From Biochemistry to Patient Care, Sapienza University of Rome	Malnutrition from acute and chronic disease	Speaker
2015	European Cancer Patient Coalition (ECPC) Meeting, held at the European Parliament, Brussels	ECPC Survey on Nutrition in Oncology Patients	Speaker
2015	Nutrients Beyond Nutrition 4, Florence	Gene expression and glycemic control in ICU: what's the link?	Speaker

2015	25th Edition of the Conference " Giornate di Nutrizione Clinica e Patologie ", organized by the "Fondazione Obesità Bulimia Anoressia e Nutrizione" (FOBAN), Milan	Metabolic-nutritional aspects in internal medicine with organ failure	Speaker
2016	Event: "Top Ten 2015", Sapienza University of Rome	Food supplements and prevention	Speaker
2016	SINuC (Società Italiana di Nutrizione Clinica e Metabolismo) Interactive Course, Rome	Basics of metabolic-nutritional support	Speaker
2016	European Society for Clinical Nutrition and Metabolism (ESPEN) Life-Long Learning Course, Helsinki	Comprehensive lectures on parenteral nutrition techniques and monitoring	Speaker
2016	XVIII National Congress of SISA (Società Italiana per lo Studio dell'Aterosclerosi), Rome	Artificial nutrition: when, how, and why	Speaker
2016	I National Congress SINuC, Florence	Malnutrition in oncology: pathophysiological basis	Speaker
2016	Nutrients Beyond Nutrition 5, Santa Margherita Ligure	DHA and metabolic derangements in breast cancer survivors	Speaker
2016	AIOM Annual Congress – Best of the Year, Rome	Nutritional support in cancer patients; panel discussion on nutrition during cancer treatments	Speaker
2017	Oncology Updates, Fatebenefratelli Hospital, Rome	Nutritional support in head and neck cancer patients	Speaker
2017	SINuC Interactive Course, Potenza	Basics of metabolic-nutritional support	Speaker
2017	16th National Course Progress in Clinical Nutrition, Portonovo	IBS: new evidence	Speaker
2017	ECPC Annual Meeting, European Parliament, Brussels	Strategies to promote energy balance in cancer patients	Speaker
2017	II National Congress SINuC, Florence	Uremic anorexia: diagnosis and prognosis	Speaker
2017	SINuC Advance Course, Veneto	Basics of metabolic-nutritional support	Speaker
2017	118th National Congress SIMI, Rome	Heart-intestine connection: an exemplary diarrhea case	Speaker
2017	II Campus "Associazione Giovani Gastroenterologi ed Endoscopisti Italiani" (AGGEI), Milan	Diet and nutraceuticals in IBS: literature overview	Speaker
2017	10th International Conference of The Society on Sarcopenia, Cachexia, and Wasting Disorders (SCWD), Rome	Health professionals' perspectives on cancer cachexia: global survey results	Speaker

2018	XIX International Congress on Nutrition and Metabolism in Renal Diseases (ICRNM) organized by International Society of Renal Nutrition and Metabolism, Genoa	Mechanisms of appetite loss in CKD and HD	Speaker
2018	Simultaneous Care Course, Rome	Malnutrition: from dietotherapy to artificial nutrition	Speaker
2018	CAMPUS AGGEI 2018, Rome	Nutrition in hepatopathy patients	Speaker
2018	XIII Simposium Nutrición en Enfermedad Renal Crónica, Madrid	Role of the multidimensional prognostic index in elderly CKD patients	Speaker
2019	Nutrients Beyond Nutrition 7, Naples	Lipid metabolites in breast cancer: from prevention to therapy	Speaker
2019	“Le Giornate di Carlo Cannella” VIII Edition, Rome	Immunonutrition: how and when	Speaker
2019	Cardioneurology 2019, Rome	Eating behavior and clinical impact in CKD	Speaker
2019	XIV X-FILES Course, Genoa	Immunity and malnutrition in deficit and excess	Speaker
2019	SINuC Approach to body composition (ABC) Course, Parma	Techniques for body composition assessment	Speaker
2019	Advanced Training Course, Sapienza University of Rome	Clinical nutrition and musculoskeletal diseases; dietary prevention in adults	Speaker
2019	SIMI Lazio-Molise Conference, Rome	Anorexia and hypophagia: diagnosis and clinical impact	Speaker
2019	Simultaneous Care in Hematologic Oncology Course, Rome	Clinical nutrition	Speaker
2019	IV National Congress SINuC, Ancona	Epigenetics and cancer-related anorexia	Speaker
2019	12th SCWD Conference, Berlin	GDF-15 levels in cancer patients with anorexia and sarcopenia	Speaker
2020	Research Seminar organized by the CNR (Consiglio Nazionale delle Ricerche), Rome	Translational aspects of cancer anorexia: from pathophysiology to clinical practice	Speaker
2020	SINuC-ommunity Lazio Course, Latina	Malnutrition and CKD	Speaker
2020	Le Giornate di Carlo Cannella IX Edition, Rome	Protein administration in sarcopenia treatment	Speaker
2020	SARS-COVID-19 Webinar	Metabolic-nutritional alterations in SARS patients	Speaker
2020	Nutriweb(inar) 2020-2021	Diagnosing malnutrition today: is it easier?	Speaker

2020	Spring Meeting SIIA-SIMI-SISA 2020, Webinar	Heart failure and metabolic-nutritional disorders	Speaker
2020	“Le Giornate di Carlo Cannella” IX Edition, Rome	Modality of protein administration in the treatment of sarcopenia	Speaker
2021	“Le Giornate di Carlo Cannella” X Edition, Rome	BCAAs, HMB, and muscle	Speaker
2021	SINuC Digital Congress 2021	Nutritional awareness in oncology: current status	Speaker
2022	15th SCWD Conference, Lisbon	GDF15, anorexia, and muscle mass in cancer patients	Speaker
2022	123rd National Congress SIMI, Rome	Adipose tissue in oncology: beyond obesity	Speaker
2022	V National Congress SINuC, Lecce	Achieving nutritional goals in cancer patients	Speaker
2023	16th SCWD Conference, Stockholm	Appetite and nutrition quality in cancer cachexia	Speaker
2023	I SINuC Abruzzo Conference, Giulianova	Anorexia-hyperphagia: an organic viewpoint	Speaker
2023	FIMeG (Federazione Italiana di Medicina Geriatrica) National Congress, Rome	Nutrition in patients with skin ulcers	Speaker
2023	124th National Congress SIMI, Rimini	Impact of physical inactivity on prognosis	Speaker
2023	VI National Congress SINuC, Rome	Adipose tissue role in cachexia	Speaker
2023	Annual Scientific Meeting of the European Society for Clinical Investigation, Prague, Czech Republic	The implication of gut microbiota in cachexia	Speaker
2024	16th SCWD Conference, Washington DC	Adipose tissue changes in advanced breast cancer	Speaker
2024	125th National Congress SIMI, Rimini	Pharmacological strategies to counteract cancer cachexia	Speaker
2024	Interregional SINuC Conference, Novara	Indirect calorimetry and metabolic holter: bedside applications	Speaker
2024	II Clinical Nutrition Conference Abruzzo, Teramo	Role of adiposity in oncology	Speaker
2024	Nutrients Beyond Nutrition 9th Edition, Baveno, Italy	Omega-3 fatty acid metabolism in breast cancer patients	Speaker
2024	VII National Congress SINuC, Genoa	Malnutrition: from epigenetics to microbiota	Speaker
2024	SINPE Course: “La nutrizione clinica nel paziente oncologico: dalle linee guida alla	Malnutrition in Oncology – Framework and Mechanisms of Development	Speaker

	pratica clinica”, Conegliano, Italy (2 lectures)		
2024	SINPE Course: “La nutrizione clinica nel paziente oncologico: dalle linee guida alla pratica clinica”, Conegliano, Italy (2 lectures)	Pharmacological Treatment of Cachexia	Speaker
2025	Training Course “l'insufficienza intestinale associata alla SBS, una sfida quotidiana” (FSC-SBS 2025)	Il paziente con intestinal failure da SBS: Eziologia, epidemiologia, quadri clinici e complicanze	Speaker
2025	Nutrients Beyond Nutrition 10th Edition, Palermo	Novel insights into omega-3 fatty acid metabolism in breast cancer patients	Speaker
2025	SINuC Course: “Giornate salentine di nutrizione clinica e metabolismo”	Innovative Pharmacological Approaches for the Treatment of Cancer Cachexia	Speaker
2025	Multidisciplinary Approach to the Frail Oncology Patient	Cancer-related malnutrition and cachexia: analogies and diversities	Speaker
2025	SINuC Course, Cosenza	Malnutrition in oncology: from epigenetics to microbiota	Speaker
2025	SINuC Approach to body composition (ABC) Course, Salerno	Approach to body composition	Speaker

## **Part X – Research activities including national and international scientific collaborations**

Prof. Alessio Molino has established a productive network of scientific collaborations at national and international level, particularly in the fields of Internal Medicine, Clinical Nutrition and Metabolism in chronic diseases, cancer-associated metabolic and nutritional derangements, anorexia and cachexia research.

At international level, he has maintained a long-standing partnership with the University of California, Davis (USA), where he held the academic position of Research Associate.

He was leading a multicenter clinical study among a NIH-funded project aimed at validating diagnostic tools for uremic anorexia in hemodialysis patients enrolled in California, USA (Molino A et al. 2016, PMID 26522141). He led other innovative and translational studies in the USA, including those: i) establishing the contribution of adiposity, evaluated by magnetic resonance imaging, to prealbumin levels in prevalent patients receiving dialysis and the relationship to retinol binding protein 4 secreted by adipocytes (Molino A et al. 2013, PMID 23623396); ii) applying a model to estimate fat mass in hemodialysis patients and healthy subjects using bioimpedance and dual-energy x-ray absorptiometry (Molino A et al. 2012, PMID 23689544); iii) examining metabolic factors and nutritional parameters associated with thyroid hormones changes in hemodialysis patients in a randomized controlled study (Molino A et al. 2019, PMID 29064128). In addition, Prof. Molino coordinated the writing of a book chapter on “Nutritional and nonnutritional management of the nephrotic syndrome” for the third and fourth edition of the book “Nutritional Management of Renal Disease” (Molino A et al. 2013, doi:10.1016/B978-0-12-391934-2.00026-6 and Molino A et al. 2021, doi:10.1016/b978-0-12-818540-7.00045-8).

He later coordinated with the same American institution (University of California, Davis) a large clinical study on metabolic and nutritional determinants of liver fibrosis in multi-ethnic populations (Molino A, senior author, 2024, PMID 38869163) and led a review article on the challenges of nutritional assessment in cirrhosis (Molino A et al. 2017, PMID 29201536).

Prof. Molino was also Co-Principal Investigator with colleague from the National Cancer Institute/National Institutes of Health (NIH), Bethesda, USA, on a collaborative project focused on the multidimensional assessment of long-term cancer survivors, including exploration of the similarities and differences in research and clinical priorities related to energy balance interventions among post-treatment cancer survivors in Europe versus North America. This project was supported by the Italian Ministry of Health and marked a pioneering effort integrating clinical, psychological, and molecular data in survivorship care (Alfano CM, Molino A et al. 2013, PMID: 23695926).

Moreover, a significant research collaboration with the University of Rouen Normandie, France, focused on the gut-brain axis and gut microbiome alterations in cancer-associated anorexia, producing relevant publication and advancing understanding of the complex pathophysiology of cancer anorexia (Molino A et al. 2020, PMID 32866900).

In addition, Prof. Molino has participated as steering committee member in major international clinical trials, including the SARA-OBS multicenter trial on sarcopenia (Biophytis, France), and the phase III multicenter trial on anamorelin for NSCLC cachexia (Helsinn Healthcare, Switzerland). He coordinated a large European study on metabolic alterations in cancer survivors under the European Cancer Patient Coalition (Molino A co-first author et al. 2019, PMID 30953399) and led large international surveys highlighting significant gaps in the awareness, diagnosis, and treatment practices of cancer cachexia among healthcare professionals, emphasizing the urgent need for earlier intervention and more targeted, quality-of-life-oriented therapies (Molino A, senior author, 2019, PMID 28007753).

He also co-led a multicenter study involving 7 cancer centers across Europe and Central America on the validation of clinical tools for the diagnosis of anorexia in cancer patients (Molfino A, et al. 2021, PMID: 33676774).

At national level, Prof. Molfino has actively contributed to multicenter research networks with the Italian Society of Internal Medicine (SIMI), in particular participating in the REPOSI (REgistro POLiterapie Società Italiana di Medicina Interna) studies and more recently coordinating the SIMI-NUTRO study (Molfino A as senior author et al. 2025, PMID: 40461355). He is also actively collaborating with the Italian Society of Clinical Nutrition and Metabolism (SINuC), and the Italian Gastric Cancer Research Group.

He also coordinated a survey on 300 medical oncologists in Italy to evaluate their level of awareness and perception of cancer-related malnutrition (Molfino A et al. 2021, PMID: 34055649).

As previously indicated, Prof. Alessio Molfino has led and participated in several competitive research projects funded by Sapienza University of Rome and the Ministry of University and Research (MUR), including the prestigious PRIN grants, collaborating with national institutions, such as University of Turin (e.g., PRIN 2022: Molfino A, Principal Investigator of the Research Unit of Sapienza University of Rome). These projects more recently have been focused, among others, on innovative mechanisms and translational implications of cancer anorexia and cachexia, the role of epigenetic regulation and microRNAs in body composition changes with a specific focus on adipose tissue, and different clinical aspects of metabolic and nutritional alterations in chronic diseases. Of note, with the research group of University of Turin, distinct microRNA and piRNA signatures in muscle and plasma of gastrointestinal cancer patients were identified, revealing associations with muscle mass. These findings offer new insights for personalized approaches in clinical nutrition and cancer-related metabolic disorders (Molfino A et al. 2023, PMID: 37743227).

<p><b>Keywords:</b> Clinical Nutrition, Metabolism, Internal Medicine, Anorexia, Cachexia, Sarcopenia, Cancer, Hemodialysis, Chronic Diseases, Muscle and Adipose Tissue Wasting, Biomarkers, MicroRNAs, Epigenetics, Outcomes.</p>
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**Part – XI Other academic activities, with particular focus on institutional and management duties (summary of the activities indicated in the other sections of the CV)**

- Tutor of QuID Program (Quality and Innovation in Teaching), Sapienza University of Rome; it is a training program intended for newly appointed faculty members and for instructors interested in learning and evaluating innovative and high-quality teaching methods (2018 - present).
- Vice-President of Master's Degree in Medicine and Surgery "B", Sapienza University of Rome, Faculty of Medicine and Dentistry (2019 - present).
- Appointed Coordinator for the management of Practical Evaluation Internship (TPVES) of Master's Degree in Medicine and Surgery "B", Sapienza University of Rome, Faculty of Medicine and Dentistry (2019 - present).
- President of the Joint Student-Faculty Committee (Commissione Paritetica Docenti-Studenti – CPDS), Sapienza University of Rome, Faculty of Medicine and Dentistry overseeing the analysis and quality assessment of data from approximately 50 academic degree programs (2021 - present).

## Part XII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	147*	Scopus, PubMed	2004	2025
Book chapters [scientific]	15	ISBN	2004	2021
Book chapters [teaching]	1	ISBN	2011	2011
Medical dictionary entry	2	Dizionario di Medicina (Treccani)	2010	2010

\*one out of 147 papers is accepted, in press, with DOI, not yet in Scopus or PubMed.

Total Impact Factor (based on the journal's IF in the year of publication) (N = 137 articles with IF)	730.197
Average Impact Factor (based on the journal's IF in the year of publication) (N = 137 articles with IF)	5.330
Total Citations (Scopus)	3238
Average Citations per Product (Scopus), total of the products N=181	17.89
Hirsch (H) index	31
Normalized H index*	1.41

\*H index divided by the academic seniority (first publication on Scopus: 2004).

## Book Chapters

1. **Molfino A**, Amabile MI, Imbimbo G, Giorgi A, Muscaritoli M. Cancer and Disordered Eating Behavior: The Issue of Anorexia. In: Manzato E, Cuzzolaro M, Donini LM, editors. *Hidden and Lesser-known Disordered Eating Behaviors in Medical and Psychiatric Conditions*, Cham: Springer International Publishing; 2022, p. 207–16. [https://doi.org/10.1007/978-3-030-81174-7\\_19](https://doi.org/10.1007/978-3-030-81174-7_19).
2. **Molfino A**, Amabile MI, Kaysen GA. Nutritional and nonnutritional management of the nephrotic syndrome. In: *Nutritional Management of Renal Disease*. 4th ed. Elsevier; 2021. p. 491–514. doi:10.1016/b978-0-12-818540-7.00045-8.
3. **Molfino A**, Imbimbo G, Muscaritoli M. Capitolo 19: Modelli organizzativi del team nutrizionale in ICU. In: *La nutrizione artificiale nel paziente critico*. Edizioni Minerva Medica; 2021.
4. **Molfino A**, Amabile MI, Laviano A. Anorexia in cancer: appetite, physiology, and beyond. In: *Handbook of Nutrition and Diet in Palliative Care*. 2nd ed. CRC Press; 2019. doi:10.1201/9781315160627.
5. Pedrazzoli P, Muscaritoli M, Caccialanza R, **Molfino A**, Zagonel V. L'emergenza nutrizionale in oncologia: un bisogno ancora inespresso. In: 8° Rapporto sulla condizione assistenziale dei malati oncologici; 2016. p. 91–97.
6. Gioia G, **Molfino A**, Rossi Fanelli F, Muscaritoli M. From nutritional screening to assessment and nutritional plan in community, acute and long term care. In: *Oxford Textbook of Geriatric Medicine*. 3rd ed.; 2016. doi:10.1186/s13047-018-0269-y.
7. Rossi Fanelli F, **Molfino A**, Gioia G, Muscaritoli M. Funzione corporea. In: Donini LM, Giusti AM, Pinto A, del Balzo V, editors. *Alimentazione e nutrizione umana*. Terza edizione riveduta e aggiornata di *Fondamenti di nutrizione umana*. 3rd ed.; 2016. p. 571–577.
8. **Molfino A**, Gioia G, Laviano A. Anorexia, reduced food intake and sickness behavior in cancer cachexia. In: *Treatment of Cancer Cachexia*. Edizioni Minerva Medica; 2015. doi:10.1038/nn.4574.
9. **Molfino A**, Gioia G. Nutraceuticals in cancer patients with cachexia. In: *Treatment of Cancer Cachexia*. Edizioni Minerva Medica; 2015.
10. **Molfino A**, Gioia G, Laviano A. Antioxidants in critically ill patients. In: *Nutritional Therapy in ICU*. D. Toledo, MD; 2015.
11. **Molfino A**, Burl RD, Kaysen GA. Nutritional and non-nutritional management of the nephrotic syndrome. In: *Nutritional Management of Renal Disease*. Elsevier; 2013. p. 393–413. doi:10.1016/b978-0-12-391934-2.00026-6.
12. Laviano A, **Molfino A**, Rossi Fanelli F. Magrezza e malnutrizione. In: *Trattato di Medicina Interna*. Verduci Editore; 2011. p. 491–500.
13. **Molfino A**, Rossi Fanelli F, Laviano A. Nutrition and metabolic support in cancer. In *Food and Health in the New Millenium: A Concise Guide to the Role of Nutrition in Health and Disease* 2008. 197-218.
14. Muscaritoli M, **Molfino A**, Fava A, Gianni C, Tari Y, Rossi Fanelli F. L'intervento nutrizionale nelle gravi cardiopatie. In: *Aggiornamenti in Nutrizione Clinica* 12. Il Pensiero Scientifico Editore; 2004. p. 195–200.
15. Laviano A, Murru AL, Fontanarosa G, **Molfino A**, Muscaritoli M, Rossi Fanelli F. Lesione da pressione in terapia intensiva. In: *Archives of Medical Therapy*. Anno II, Vol I; 2009. p. 46.
16. Muscaritoli M, Laviano A, **Molfino A**, Monti M. Ulcere venose degli arti inferiori in paziente con diabete mellito di tipo 2. In: *Archives of Medical Therapy*. Anno II, Vol I; 2009. p. 35.

## Dictionary entry

1. Muscaritoli M, **Molfino A**. Nutrizione. In: *Dizionario di Medicina Treccani*. Volume 2. Istituto dell'Enciclopedia Italiana; 2010. p. 1360.
2. Muscaritoli M, **Molfino A**. Nutrizione. La nutrizione artificiale. In: *Dizionario di Medicina*. Istituto dell'Enciclopedia Italiana; 2010.

## Part XIII – Selected Publications

List of the publications selected for the evaluation.

1. Muscaritoli M, Amabile MI, Gallicchio C, Imbimbo G, Conte C, Ceriani E, Pietrangelo A, Corradini E, Mandraffino G, Serviddio G, Buscemi S, Sasso FC, Balsano C, Pignone AM, **Molfino A**. Prevalence of malnutrition and its impact on clinical outcomes in internal medicine wards: The SIMI-NUTRO study. *Eur J Intern Med*. 2025:S0953-6205(25)00217-1. IF 6.1. Citations: 0
2. Imbimbo G, Pellegrini M, Scagnoli S, Pisegna S, Rizzo V, Gallicchio C, Botticelli A, **Molfino A**. Association between body composition parameters and treatment-related toxicities in patients with metastatic breast cancer receiving cyclin-dependent kinase 4 and 6 inhibitors. *Clin Nutr*. 2025;47:242-247. IF 7.4. Citations: 0
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16. Muscaritoli M, Rossi Fanelli F, **Molfino A**. Perspectives of health care professionals on cancer cachexia: results from three global surveys. *Ann Oncol*. 2016;27(12):2230-2236. IF 11.855. Citations: 66

Regarding the 16 selected publications for the evaluation, Alessio Molfino is first author in 10 publications, co-first author in 1 publication, last author in 4 publications, and co-last author in 1 publication.

The **total Impact Factor** of the 16 publications is **124.743** and the **average Impact Factor** is **7.796**.

## Part XIX - List of indexed publications

1. Muscaritoli M, Amabile MI, Gallicchio C, Imbimbo G, Conte C, Ceriani E, Pietrangelo A, Corradini E, Mandraffino G, Serviddio G, Buscemi S, Sasso FC, Balsano C, Pignone AM, **Molfino A**. Prevalence of malnutrition and its impact on clinical outcomes in internal medicine wards: The SIMI-NUTRO study. *European Journal of Internal Medicine* 2025;S0953620525002171. <https://doi.org/10.1016/j.ejim.2025.05.025>.
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