

CURRICULUM VITAE

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EDUCATION/TRAINING:

1998-2003 High School (degree at the Liceo Scientifico “Giordano Bruno” in Albenga SV with the vote of 100/100).

10-2003/ 03-2007 Bachelor’s degree in Biological Sciences at the University of Genoa with the dissertation: “Are damages due to weightlessness to astrocytes repaired by a rest period?” (110/110 cum laudae).

03/2007-18/03/2009 Master degree in Biological Sciences, course of Cellular and Molecular Biology, at the University of Genoa with the dissertation: “Development of new experimental therapy for the treatment of Human Neuroblastoma based on the inhibition of proteasoma” (110/110 cum laudae).

November 2009 Statal Exam for the Professional Qualification.

01/2011-12/2013 PhD., Clinical and experimental oncology and hematology.

PROFESSIONAL EXPERIENCE:

Since 2006 to 2007 Graduating student at the Laboratory of Cellular Biology (head Prof. Mariangela Masini) of the University of Genoa.

Since 2007 to 2009 Graduating student at the Laboratory of Oncology (head Dr. Mirco Ponzoni) of the Gaslini Children’s Hospital in Genoa.

16th April 2009 - 15th December 2009 Fellow researcher at the Laboratory of Oncology (head Dr. Mirco Ponzoni) of the Gaslini Children’s Hospital in Genoa.

2nd January 2010 - 31th December 2010 Fellow researcher for Assessing the role of deacetylase SIRT6 in the production of inflammatory and proangiogenic cytokines, at the Laboratory of Cellular Therapy (head Dr. Alessio Nencioni) of the Department of Internal Medicine in Genoa.

1st January 2011 - 31th December 2013 Phd in Clinical and Experimental Hematology and Oncology.

1st January 2014 – 31th March 2017 Fellow researcher at the Laboratory of Cellular Therapies (DiMI-Genoa) working on how short-term starvation enhances the activity of molecularly targeted therapies.

1st April 2017 – 31th March 2018 Veronesi Post-Doctoral Fellowship at the Laboratory of Cellular Therapies (DiMI-Genoa) working on the inhibition of SIRT6 against the metastatic spread of breast cancer.

1st April 2018 – 15th November 2020 IRCCS San Martino hospital fellowship at the Laboratory of Cellular Therapies (DiMI-Genoa) working on the effect of hypo-proteic diet cycles on circulating markers of neuro-degeneration and oxidative stress.

16th November 2020 – 31st October 2023 Technician category D, Technical, technical-scientific and data processing area at the University of Genoa.

1st November 2023 – till now Researcher in Applied Dietetic Technical Sciences at the University of Genoa.

TRAINING AND ADVANCED COURSES:

- Seminar: “Photometry. Basic technologies and applications in diagnostics”. 17th June 2009, Gaslini Children’s Hospital, Genoa.

- Seminar: “Identification and characterization of Neuroblastoma-derived endothelial microvessels”. 18th June 2009, CBA at S. Martino Hospital, Genoa.

- Seminar: “Humoral innate immunity and its interactions with cellular mechanisms”. 7th October 2009, Gaslini Children’s Hospital, Genoa.

- Seminar: “Treatment of solid murine tumors and antitumor vaccination with selectively tumor-concentrated cytokines”. 4th March 2010, CBA at S. Martino Hospital, Genoa.

- Seminar: “Acute Myeloid Leukemia” Feb 10th 2011, Di.M.I., Genoa.

- Seminar: “Bioinformatics in Genetic and Medicine” Apr 8th 2011, Galliera Hospital, Genoa.

- Advanced Training Course: “Traslational research in hematology/oncology” May 16th - May 20th 2011, Ghislieri College, Pavia.

- Advanced Training Course: “Flow citometry and microscopy”, 17th –19th April CBA, Genova.

- Advanced Course “Nutrition and Longevity” organized by the Department of Medicine and Medical Specialties (Di.M.I.), Genoa Aging and Longevity Center (G.A.L.C.) and the Medical and Pharmaceutical School, University of Genoa (26th -27th May 2017).

- Advanced Course “Small Animals specific training for personnel involved in animal experimentation for scientific purposes (OZ2)” for profile B, held by the University of Milan (November 2022-January 2023)

GRANT AND AWARDS:

- 2017 Umberto Veronesi Foundation Scholarship.

- 2020 Best National Study of 2020 for the article “Fasting-mimicking diet and hormone therapy induce breast cancer regression” from BJClub.

- 2021 Top 10 Candidates under 40 in Medical Sciences for USERN Prize 2021.

- 2022 Grant AIRC MFAG ID26482 as PI for the project “Endocrine therapy potentiation and mechanisms of drug enhancement in cancer via fasting”.

- Award for best poster presented during the American Association for Cancer Research (AACR) conference held in New Orleans from April 8th to 13th 2022
- Best oral presentation at 37° National S.I.S.A. Congress held in Naples from November 26th to 29th 2023
- Fondazione Umberto Veronesi Award for 2024 during the ceremony held in Milan on 15 May 2024.

CONGRESSI:

- Congress “Novel Cancer Therapeutics” 23rd – 28th March 2010, Victoria – British Columbia Canada.
- Congress: “European Multidisciplinary Cancer Congress”, 23rd - 27th September, Stockholm, Sweden. Poster presentation.
- Congress: “24th EORTC-NCI-AACR Symposium on ‘Molecular Targets and Cancer Therapeutics”, 6th - 9th November 2012, Dublin. Poster presentation.
 - Congress: “Integrating Metabolism and Tumor Biology”, Keystone Symposia, 13th-18th January, Vancouver 2015. Poster presentation.
 - Congress “AACR Annual Meeting 2018”, 14th -18th April 2018, Chicago. Dublin. Poster presentation.
 - Congress “La Medicina Integrata in Oncologia” 27th October 2018, Loreto Aprutino. Oral Presentation.
 - Congress “Virtual AACR Annual Meeting 2020”, 27th -28th April 2020. Oral Presentation
 - Congress:“Tumor Metabolism”, Keystone Symposia 5th-8th September 2022, Keystone. Poster presentation.
 - XLIV National Congress Italian Society of Human Nutrition (SINU), Piacenza 04th -06th June2024.

WORKSHOPS INVITATION:

- Seminar “Lausanne Integrative Metabolism and Nutrition Alliance” 27th January 2021. **Oral presentation.**
- Seminar “Cancer & Aging Symposium organised by the Fred Hutchinson Cancer Center” 22nd - 23rd February 2021. **Oral presentation.**
- Congress “Breast Journal Club - L'importanza della ricerca in oncologia” 7-8th July 2021 Firenze. **Oral presentation.**
- SINPE Workshop “Calorie restriction and tumour growth” 25th Maggio 2022. **Oral presentation.**
- Congress Acc Med “Treatment algorithms in luminal breast cancer therapy:learning from the present to design the future” 24th May 2024. **Oral presentation.**
- Congress Regionale Piemonte, Liguria, Valle d'Aosta SISA. 08th June 2024. **Oral presentation.**

MEMBERSHIP IN SCIENTIFIC SOCIETY:

- June 2018 – today: AACR associate membership.
- April 2023 – today: member of the Italian Society of Human Nutrition (SINU).

- September 2023 – today: member of the Italian Society for the Study of Atherosclerosis (SISA).

BIBLIOMETRIC PARAMETERS:

articoli: 56

h-index: 29

citation index: 2387

SCIENTIFIC PUBLICATIONS:

- F. Pastorino, D. Di Paolo, M. Loi, P. Beccherini, **I. Caffa**, A. Zorzoli, D. Marimpietri, R. Carosio, P. Perri, PG Montaldo, C. Brignole, G. Pagnan, D. Ribatti, TM Allen and M. Ponzoni. “Recent avances in targeted anti-vascolature therapy: the neuroblastoma model.” **Current Drug Targets** 2009, *10*, 1021-1027.

- Di Paolo D, Loi M, Pastorino F, Brignole C, Marimpietri D, Becherini P, **Caffa I**, Zorzoli A, Longhi R, Gagliani C, Tacchetti C, Corti A, Allen TM, Ponzoni M, Pagnan G. “Liposomes-mediated therapy of neuroblastoma.” **Methods in Enzymology Volume 465**.

- Loi M, Marchiò S, Becherini P, Di Paolo D, Soster M, Curnis F, Brignole C, Pagnan G, Perri P, **Caffa I**, Longhi R, Nico B, Bussolino F, Gambini C, Ribatti D, Cilli M, Arap W, Pasqualini R, Allen TM, Corti A, Ponzoni M, Pastorino F. “Combined targeting of perivascular and endothelial tumor cells enhances anti-tumor efficacy of liposomal chemotherapy in neuroblastoma” **J Control Release. 2010 Jul 1;145(1):66-73**.

- Pisano M, Pagnan G, Dettori MA, Cossu S, **Caffa I**, Sassu I, Emionite L, Fabbri D, Cilli M, Pastorino F, Palmieri G, Delogu G, Ponzoni M, Rozzo C. “Enhanced anti-tumor activity of a new curcumin-related compound against melanoma and neuroblastoma cells”. **Molecular Cancer** 2010 Jun 3;9:137.

- Zoppoli G, Cea M, Soncini D, Fruscione F, Rudner J, Moran E, **Caffa I**, Bedognetti D, Motta G, Ghio R, Ferrando F, Ballestrero A, Parodi S, Belka C, Patrone F, Bruzzone S, Nencioni A. “Potent synergistic interaction between the Nampt inhibitor APO866 and the apoptosis activator TRAIL in human leukemia cells”. **Exp Hematol. 2010 Nov;38(11):979-88**.

- Bachetti T, Di Paolo D, Di Lascio S, Mirisola V, Brignole C, Bellotti M, **Caffa I**, Ferraris C, Fiore M, Fornasari D, Chiarle R, Borghini S, Pfeffer U, Ponzoni M, Ceccherini I, Perri P. “PHOX2B-Mediated Regulation of ALK expression: In Vitro Identification of a Functional Relationship Between Two Genes Involved in Neuroblastoma”. **PLoS One** 2010 Oct 1, Volume 5.

- Brignole C, Marimpietri D, Di Paolo D, Perri P, Morandi F, Pastorino F, Zorzoli A, Pagnan G, Loi M, **Caffa I**, Erminio G, Haupt R, Gambini C, Pistoia V and Ponzoni M. “Therapeutic targeting of TLR9 inhibits cell growth and induces apoptosis in Neuroblastoma”. **Cancer Res. 2010 Dec 1;70(23):9816-26**.

- Cea M, Soncini D, Fruscione F, Raffaghello L, Garuti A, Emionite L, Moran E, Magnone M, Zoppoli G, Reverberi D, **Caffa I**, Salis A, Cagnetta A, Bergamaschi M, Casciaro S, Pierri I, Damonte G, Ansaldo F, Gobbi M, Pistoia V, Ballestrero A, Patrone F, Bruzzone S, Nencioni A. “Synergistic Interactions between HDAC and Sirtuins Inhibitors in Human Leukemia Cells”. **PLoS One** 2011 Jul 27, Volume 6.

- Soncini D*, **Caffa I***, Patrone F, Ballestrero A, Nencioni A. "Synthetic lethality-based therapeutics: perspectives for applications in colorectal cancer". **Curr Cancer Drug Targets. 2012 Mar 5.**
- Bauer I, Grozio A, Lasiglie' D, Basile G, Sturla L, Magnone M, Sociali G, Soncini D, **Caffa I**, Poggi A, Zoppoli G, Cea M, Feldmann G, Mostoslavsky R, Ballestrero A, Patrone F, Bruzzone S, Nencioni A. "The NAD⁺-dependent histone deacetylase SIRT6 promotes cytokine production and migration in pancreatic cancer cells by regulating Ca²⁺ responses". **J Biol Chem. 2012 Oct 18.**
- Montecucco F, Cea M, Bauer I, Soncini D, **Caffa I**, Lasigliè D, Nahimana A, Uccelli A, Bruzzone S, Nencioni A. "Nicotinamide Phosphoribosyltransferase (Nampt) Inhibitors As Therapeutics: Rationales, Controversies, Clinical Experience". **Curr Drug Targets. 2013 Mar 25.**
- Grozio A, Sociali G, Sturla L, **Caffa I**, Soncini D, Salis A, Raffaelli N, De Flora A, Nencioni A, Bruzzone S. "CD73 as a source of extracellular precursors for sustained NAD⁺ biosynthesis in FK866-treated tumor cells". **J Biol Chem. 2013 Sep 6.**
- Di Paolo D, Pastorino F, Zuccari G, **Caffa I**, Loi M, Marimpietri D, Brignole C, Perri P, Cilli M, Nico B, Ribatti D, Pistoia V, Ponzoni M, Pagnan G. "Enhanced anti-tumor and anti-angiogenic efficacy of a novel liposomal fenretinide on human neuroblastoma". **J Control Release. 2013 Sep 28.**
- Brauersreuther V, Montecucco F, Pelli G, Galan K, Proudfoot AE, Belin A, Vuilleumier N, Burger F, Lenglet S, **Caffa I**, Soncini D, Nencioni A, Vallée JP, Mach F. "Treatment with the CC chemokine-binding protein Evasin-4 improves post-infarction myocardial injury and survival in mice". **Thromb Haemost. 2013 Sep 27;110(4):807-25.**
- Nencioni A, da Silva RF, Fraga-Silva RA, Steffens S, Fabre M, Bauer I, **Caffa I**, Magnone M, Sociali G, Quercioli A, Pelli G, Lenglet S, Galan K, Burger F, Vázquez Calvo S, Bertolotto M, Bruzzone S, Ballestrero A, Patrone F, Dallegri F, Santos RA, Stergiopoulos N, Mach F, Vuilleumier N, Montecucco F. "Nicotinamide phosphoribosyltransferase inhibition reduces intraplaque CXCL1 production and associated neutrophil infiltration in atherosclerotic mice". **Thromb Haemost. 2013 Nov 7;111(2).**
- Rodríguez PE, Moreno-Clavijo E, Carrión-Jiménez S, Carmona AT, Moreno-Vargas AJ, **Caffa I**, Montecucco F, Cea M, Nencioni A, Robina I. "Synthesis and cancer growth inhibitory activities of 2-fatty-alkylated pyrrolidine-3,4-diol derivatives". **ARKIVOC 2014 (iii) 197-214.**
- Fraga-Silva RA, Savergnini SQ, Montecucco F, Nencioni A, **Caffa I**, Soncini D, Costa-Fraga FP, De Sousa FB, Sinisterra RD, Capettini LA, Lenglet S, Galan K, Pelli G, Bertolotto M, Pende A, Spinella G, Pane B, Dallegri F, Palombo D, Mach F, Stergiopoulos N, Santos RA1, da Silva RF2. "Treatment with Angiotensin-(1-7) reduces inflammation in carotid atherosclerotic plaques". **Thromb Haemost. 2014 Feb 6;111(4).**
- Soncini D*, **Caffa I***, Zoppoli G, Cea M, Cagnetta A, Passalacqua M, Mastracci L, Boero S, Montecucco F, Sociali G, Lasigliè D, Damonte P, Grozio A, Mannino E, Poggi A, D'Agostino VG, Monacelli F, Provenzani A, Odetti P, Ballestrero A, Bruzzone S, Nencioni A. "Nicotinamide phosphoribosyltransferase promotes epithelial-to-mesenchymal transition as a soluble factor independent of its enzymatic activity." **J Biol Chem. 2014 Oct 20.**
- **Caffa I**, D'Agostino V, Damonte P, Soncini D, Cea M, Monacelli F, Odetti P, Ballestrero A, Provenzani A, Longo VD, Nencioni A. "Fasting potentiates the anticancer activity of tyrosine kinase inhibitors by strengthening MAPK signaling inhibition." **Oncotarget. 2015 Mar 30.**
- Cagnetta A*, **Caffa I***, Acharya C, Soncini D, Acharya P, Adamia S, Pierri I, Bergamaschi M, Garuti A, Fraternali G, Mastracci L, Provenzani A, Zucal C, Damonte G, Salis A, Montecucco F, Patrone F, Ballestrero

A, Bruzzone S, Gobbi M, Nencioni A, Cea M. "APO866 Increases Antitumor Activity of Cyclosporin-A by Inducing Mitochondrial and Endoplasmic Reticulum Stress in Leukemia Cells." **Clin Cancer Res.** **2015 May 11.**

- Fraga-Silva RA, Montecucco F, Costa-Fraga FP, Nencioni A, **Caffa I**, Bragina ME, Mach F, Raizada MK, Santos RA, da Silva RF, Stergiopoulos N. "Diminazene enhances stability of atherosclerotic plaques in ApoE-deficient mice." **Vascul Pharmacol.** **2015 Aug 22.**

- Zucal C, D'Agostino VG, Casini A, Mantelli B, Thongon N, Soncini D, **Caffa I**, Cea M, Ballestrero A, Quattrone A, Indraccolo S, Nencioni A, Provenzani A. "EIF2A-dependent translational arrest protects leukemia cells from the energetic stress induced by NAMPT inhibition." **BMC Cancer.** **2015 Nov 5.**

- **Caffa I**, Longo VD, Nencioni A. "Fasting plus tyrosine kinase inhibitors in cancer." **Aging (Albany NY).** **2015 Dec 7.**

- Brown DN*, **Caffa I***, Cirmena G, Piras D, Garuti A, Gallo M, Alberti S, Nencioni A, Ballestrero A, Zoppoli G. "Squalene epoxidase is a bona fide oncogene by amplification with clinical relevance in breast cancer." **Sci Rep.** **2016 Jan 18.**

- Di Matteo M, Ammazalorso A, Andreoli F, **Caffa I**, De Filippis B, Fantacuzzi M, Giampietro L, Maccallini C, Nencioni A, Parenti MD, Soncini D, Del Rio A, Amoroso R. "Synthesis and biological characterization of 3-(imidazol-1-ylmethyl)piperidine sulfonamides as aromatase inhibitors." **Bioorg Med Chem Lett.** **2016 Apr 28.**

- Carbone F, Liberale L, Bonaventura A, Vecchiè A, Casula M, Cea M, Monacelli F, **Caffa I**, Bruzzone S, Montecucco F, Nencioni A. "Regulation and Function of Extracellular Nicotinamide Phosphoribosyltransferase/Visfatin." **Compr Physiol.** **2017 Mar 16.**

- Sociali G, Magnone M, Ravera S, Damonte P, Vigliarolo T, Von Holtey M, Vellone VG, Millo E, **Caffa I**, Cea M, Parenti MD, Del Rio A, Murone M, Mostoslavsky R, Grozio A, Nencioni A, Bruzzone S. "Pharmacological Sirt6 inhibition improves glucose tolerance in a type 2 diabetes mouse model." **FASEB J.** **2017 Apr 6.**

- Piacente F*, **Caffa I***, Ravera S, Sociali G, Passalacqua M, Vellone VG, Becherini P, Reverberi D, Monacelli F, Ballestrero A, Odetti P, Cagnetta A, Cea M, Nahimana A, Duchosal MA, Bruzzone S, Nencioni A. "Nicotinic acid phosphoribosyltransferase regulates cancer cell metabolism, susceptibility to NAMPT inhibitors and DNA repair." **Cancer Res.** **2017 May 15.**

- Piacente F*, **Caffa I***, Nencioni A. "Nicotinic acid: A case for a vitamin that moonlights for cancer?" **Cell Cycle.** **2017 Sep 17.**

- Bello C, Bai J, Zambron BK, Elías-Rodríguez P, Gajate C, Robina I, **Caffa I**, Cea M, Montecucco F, Nencioni A, Nahimana A, Aubry D, Breton C, Duchosal MA, Mollinedo F, Vogel P. "Induction of cell killing and autophagy by amphiphilic pyrrolidine derivatives on human pancreatic cancer cells." **Eur J Med Chem.** **2018 Mar 2.**

- Nencioni A, **Caffa I**, Cortellino S, Longo VD. "Fasting and cancer: molecular mechanisms and clinical application." **Nat Rev Cancer.** **2018 Oct 16.**

- Sociali G, Grozio A, **Caffa I**, Schuster S, Becherini P, Damonte P, Sturla L, Fresia C, Passalacqua M, Mazzola F, Raffaelli N, Garten A, Kiess W, Cea M, Nencioni A, Bruzzone S. "SIRT6 deacetylase activity regulates NAMPT activity and NAD(P)(H) pools in cancer cells." **FASEB J.** **2019 Mar.**

- Nencioni A, **Caffa I**, Cortellino S, Longo VD. "Reply to 'Fasting in oncology: a word of caution'." **Nat Rev Cancer. 2019 Mar.**
- Giannotti C, Sambuceti S, Signori A, Ballestrero A, Murialdo R, Romairone E, Scabini S, **Caffa I**, Odetti P, Nencioni A, Monacelli F. "Frailty assessment in elective gastrointestinal oncogeriatric surgery: Predictors of one-year mortality and functional status." **J Geriatr Oncol. 2019 May 7.**
- Sociali G, Liessi N, Grozio A, **Caffa I**, Parenti MD, Ravera S, Tasso B, Benzi A, Nencioni A, Del Rio A, Robina I, Millo E, Bruzzone S. "Differential modulation of SIRT6 deacetylase and deacylase activities by lysine-based small molecules." **Mol Divers. 2019 Jun 25.**
- Cremonini AL, **Caffa I**, Cea M, Nencioni A, Odetti P, and Monacelli F. "Nutrients in the Prevention of Alzheimer's Disease" **Oxidative Medicine and Cellular Longevity Volume 2019.**
- Giannotti C, Zoppoli G, Ferrando L, Murialdo R, **Caffa I**, Laudisio A, Scabini S, Romairone E, Fregatti P, Friedman D, Odetti P, Nencioni A, Ballestrero A, Monacelli F. "Development of a predictor of one-year mortality in older patients with cancer by geriatric and oncologic parameters." **J Geriatr Oncol. 2019 Nov 6.**
- Di Tano M, Raucci F, Vernieri C, **Caffa I**, Buono R, Fanti M, Brandhorst S, Curigliano G, Nencioni A, de Braud F, Longo VD. "Synergistic effect of fasting-mimicking diet and vitamin C against KRAS mutated cancers." **Nat Commun. 2020 May 11.**
- **Caffa I**, Spagnolo V, Vernieri C, Valdemanin F, Becherini P, Wei M, Brandhorst S, Zucal C, Driehuis E, Ferrando L, Piacente F, Tagliafico A, Cilli M, Mastracci L, Vellone VG, Piazza S, Cremonini AL, Gradasci R, Mantero C, Passalacqua M, Ballestrero A, Zoppoli G, Cea M, Arrighi A, Odetti P, Monacelli F, Salvadori G, Cortellino S, Clevers H, De Braud F, Sukkar SG, Provenzani A, Longo VD, Nencioni A. "Fasting-mimicking diet and hormone therapy induce breast cancer regression." **Nature. 2020 Jul 15.**
- Pizzonia M, Giannotti C, Carmisciano L, Signori A, Rosa G, Santolini F, **Caffa I**, Montecucco F, Nencioni A, Monacelli F. "Frailty assessment, hip fracture, and long-term clinical outcomes in older adults" **Eur J Clin Invest. 2020 Nov 1.**
- Becherini P*, **Caffa I***, Piacente F, Damonte P, Vellone VG, Passalacqua M, Benzi A, Bonfiglio T, Reverberi D, Khalifa A, Ghanem M, Guijarro A, Tagliafico L, Sucameli M, Persia A, Monacelli F, Cea M, Bruzzone S, Ravera S, Nencioni A. "SIRT6 enhances oxidative phosphorylation in breast cancer and promotes mammary tumorigenesis in mice." **Cancer Metab. 2021 Jan 22.**
- **Caffa I**, Nencioni A. "Enhancing endocrine therapy activity via fasting cycles: biological rationale and clinical feasibility." **Mol Cell Oncol. 2020 Dec 14.**
- Valdemanin F*, **Caffa I***, Persia A*, Cremonini AL, Ferrando L, Tagliafico L, Tagliafico A, Guijarro A, Carbone F, Ministrini S, Bertolotto M, Becherini P, Bonfiglio T, Giannotti C, Khalifa A, Ghanem M, Cea M, Sucameli M, Murialdo R, Barbero V, Gradasci R, Bruzzone F, Borgarelli C, Lambertini M, Vernieri C, Zoppoli G, Longo VD, Montecucco F, Sukkar SG, Nencioni A. "Safety and Feasibility of Fasting-Mimicking Diet and Effects on Nutritional Status and Circulating Metabolic and Inflammatory Factors in Cancer Patients Undergoing Active Treatment." **Cancers (Basel). 2021 Aug 9.**
- Giannotti C, Massobrio A, Carmisciano L, Signori A, Napolitano A, Pertile D, Soriero D, Muzyka M, Tagliafico L, Casabella A, Cea M, **Caffa I**, Ballestrero A, Murialdo R, Laudisio A, Antonelli Incalzi R, Scabini S, Monacelli F, Nencioni A. "Effect of Geriatric Comanagement in Older Patients Undergoing Surgery for Gastrointestinal Cancer: A Retrospective, Before-and-After Study" **J Am Med Dir Assoc. 2022 May.**

- Bai JF, Majjigapu SR, Sordat B, Poty S, Vogel P, Elías-Rodríguez P, Moreno-Vargas AJ, Carmona AT, **Caffa I**, Ghanem M, Khalifa A, Monacelli F, Cea M, Robina I, Gajate C, Mollinedo F, Bellotti A, Nahimana A, Duchosal M, Nencioni A. “Identification of new FK866 analogues with potent anticancer activity against pancreatic cancer” **Eur J Med Chem. 2022 Jun 2.**
- Ghanem MS, **Caffa I**, Del Rio A, Franco J, Parenti MD, Monacelli F, Cea M, Khalifa A, Nahimana A, Duchosal MA, Ravera S, Bertola N, Bruzzone S, Nencioni A, Piacente F. “Identification of NAPRT Inhibitors with Anti-Cancer Properties by In Silico Drug Discovery” **Pharmaceuticals (Basel). 2022 Jul 10.**
- Franco J, Piacente F, Walter M, Fratta S, Ghanem M, Benzi A, **Caffa I**, Kurkin AV, Altieri A, Herr P, Martínez-Bailén M, Robina I, Bruzzone S, Nencioni A, Del Rio A. “Structure-Based Identification and Biological Characterization of New NAPRT Inhibitors”. **Pharmaceuticals (Basel). 2022 Jul 12.**
- Rangan P, Lobo F, Parrella E, Rochette N, Morselli M, Stephen TL, Cremonini AL, Tagliafico L, Persia A, **Caffa I**, Monacelli F, Odetti P, Bonfiglio T, Nencioni A, Pigliatile M, Boccardi V, Mecocci P, Pike CJ, Cohen P, LaDu MJ, Pellegrini M, Xia K, Tran K, Ann B, Chowdhury D, Longo VD. “Fasting-mimicking diet cycles reduce neuroinflammation to attenuate cognitive decline in Alzheimer's models” **Cell Rep. 2022 Sep 27.**
- Wang C, Barnoud C, Cenerenti M, Sun M, **Caffa I**, Kizil B, Bill R, Liu Y, Pick R, Garnier L, Gkoutidi OA, Ince LM, Holtkamp S, Fournier N, Michielin O, Speiser DE, Hugues S, Nencioni A, Pittet MJ, Jandus C, Scheiermann C. “Dendritic cells direct circadian anti-tumour immune responses” **Nature. 2023 Feb.**
- Fratta S, Biniecka P, Moreno-Vargas AJ, Carmona AT, Nahimana A, Duchosal MA, Piacente F, Bruzzone S, **Caffa I**, Nencioni A, Robina I. “Synthesis and structure-activity relationship of new nicotinamide phosphoribosyltransferase inhibitors with antitumor activity on solid and haematological cancer” **Eur J Med Chem. 2023 Jan 31.**
- Conforti I, Benzi A, **Caffa I**, Bruzzone S, Nencioni A, Marra A. “Iminosugar-Based Nicotinamide Phosphoribosyltransferase (NAMPT) Inhibitors as Potential Anti-Pancreatic Cancer Agents” **Pharmaceutics. 2023 May 11.**
- Carreira ASA, Ravera S, Zucal C, Thongon N, **Caffa I**, Astigiano C, Bertola N, Buongiorno A, Rocuzzo M, Bisio A, Pardini B, Nencioni A, Bruzzone S, Provenzani A. “Mitochondrial rewiring drives metabolic adaptation to NAD(H) shortage in triple negative breast cancer cells” **Neoplasia. 2023 Jul;41.**
- Khalifa A, Guijarro A, Ravera S, Bertola N, Adorni MP, Papotti B, Raffaghello L, Benelli R, Becherini P, Namatalla A, Verzola D, Reverberi D, Monacelli F, Cea M, Pisciotta L, Bernini F, **Caffa I***, Nencioni A*. “Cyclic fasting bolsters cholesterol biosynthesis inhibitors' anticancer activity” **Nat Commun. 2023 Oct 31.**
- Ghanem MS, **Caffa I**, Monacelli F, Nencioni A. “Inhibitors of NAD⁺ Production in Cancer Treatment: State of the Art and Perspectives.” **Int J Mol Sci. 2024 Feb 8.**
- Conforti I, Benzi A, **Caffa I**, Bruzzone S, Nencioni A, Marra A. “New Analogues of the Nicotinamide Phosphoribosyltransferase Inhibitor FK866 as Potential Anti-Pancreatic Cancer Agents.” **Med Chem. 2024 Feb 7.**

PATENTS:

- Co-inventor of patent “Sensitization of cancer cells to NAMPT inhibitors by neutralization of nicotinic acid phosphoribosyltransferase” deposit number 102016000030760.
- Co-inventor of patent “Using a diet that mimics fasting to enhance the efficacy of anti-estrogens in cancer therapy” deposit number 102016000017036.
- Co-inventor of patent “Agenti terapeutici per l'uso nel trattamento del cancro e di malattie caratterizzate da fibrosi eccessiva o aberrante” number MI2014A001204.
- Co-inventor of patent “Protein kinase inhibitors for use in a method of treating cancer in association with a reduced caloric intake” number MI2014A000537.
- Co-inventor of patent “Diet composition for the prevention and/or the treatment of endometrial hyperplasia” number WO2018138090A1.