

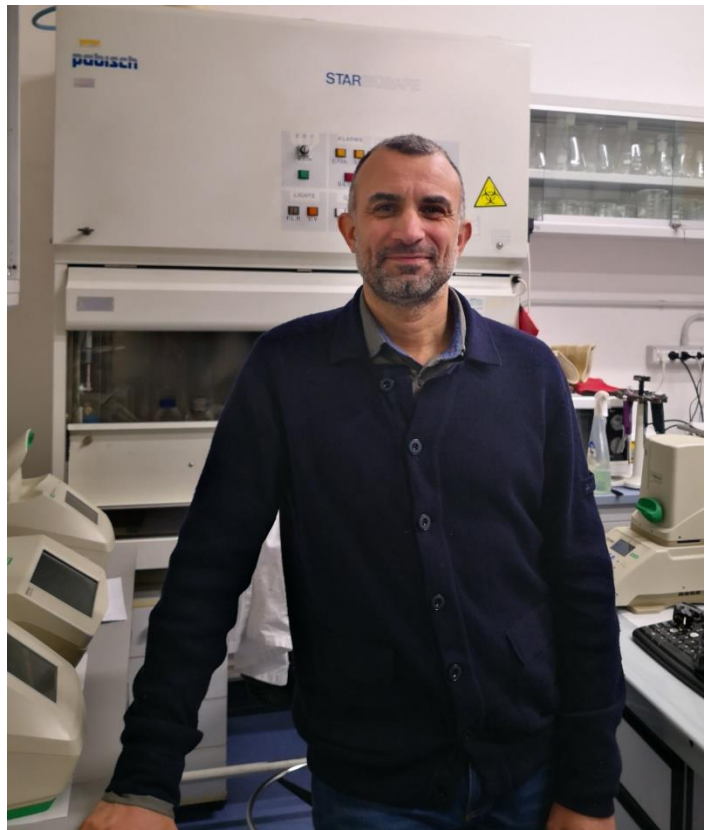
Francesco Lozupone.

Ricercatore presso il “Centro Nazionale per la Salute Globale” dell’ Istituto Superiore di Sanità (ISS)

Esperto ISS per l’approvazione di trials di fase I per i farmaci oncologici

Profilo professionale:

Francesco Lozupone è un biologo cellulare e molecolare altamente specializzato in genetica molecolare e in studi preclinici in oncologia. I suoi studi recenti sono stati focalizzati sulla caratterizzazione di nuovi marcatori tumorali coinvolti nel metabolismo energetico e nel traffico vescicolare delle cellule tumorali. Attualmente si occupa di approcci integrativi alle terapie convenzionali in oncologia



Pubblicazioni recenti:

1: Bracci L, Lozupone F, Parolini I. The role of exosomes in colorectal cancer disease *progression and response to therapy*. *Cytokine Growth Factor Rev.* 2019 Dec 18. pii: S1359-6101(19)30152-2. doi: 10.1016/j.cytogfr.2019.12.004

2: Lozupone F, Fais S. Cancer Cell Cannibalism: A Primeval Option to Survive. *Curr Mol Med.* 2015;15(9):836-41. Review. PubMed PMID: 26511709.

3: Lozupone F, Borghi M, Marzoli F, Azzarito T, Matarrese P, Iessi E, Venturi G, Meschini S, Canitano A, Bona R, Cara A, Fais S. TM9SF4 is a novel V-ATPase-interacting protein that modulates tumor pH alterations associated with drug resistance and invasiveness of colon cancer cells. *Oncogene.* 2015 Oct 1;34(40):5163-74. doi: 10.1038/onc.2014.437. Epub 2015 Feb 9. PubMed PMID: 25659576.

4: Naspi A, Panasiti V, Abbate F, Roberti V, Devirgiliis V, Curzio M, Borghi M, Lozupone F, Carotti S, Morini S, Gaudio E, Calvieri S, Londei P. Insulin-like-growth-factor-binding-protein-3 (IGFBP-3) contrasts melanoma progression in vitro and in vivo. *PLoS One.* 2014 Jun 6;9(6):e98641. doi:10.1371/journal.pone.0098641. eCollection 2014. PubMed PMID: 24905466; PubMed Central PMCID: PMC4048209.

5: Mariotti S, Pardini M, Gagliardi MC, Teloni R, Giannoni F, Fraziano M, Lozupone F, Meschini S, Nisini R. Dormant Mycobacterium tuberculosis fails to block phagosome maturation and shows unexpected capacity to stimulate specific human T lymphocytes. *J Immunol.* 2013 Jul 1;191(1):274-82. doi: 10.4049/jimmunol.1202900. Epub 2013 Jun 3. PubMed PMID: 23733870.

6: Brambilla D, Zamboni S, Federici C, Lugini L, Lozupone F, De Milito A, Cecchetti S, Cianfriglia M, Fais S. P-glycoprotein binds to ezrin at amino acid residues 149-242 in the FERM domain and plays a key role in the multidrug resistance of human osteosarcoma. *Int J Cancer.* 2012 Jun 15;130(12):2824-34. doi: 10.1002/ijc.26285. Epub 2011 Oct 20. PubMed PMID: 21780101.

7: Marino ML, Fais S, Djavaheri-Mergny M, Villa A, Meschini S, Lozupone F, Venturi G, Della Mina P, Patingre S, Rivoltini L, Codogno P, De Milito A. Proton pump inhibition induces autophagy as a survival mechanism following oxidative stress in human melanoma cells. *Cell Death Dis.* 2010 Oct 21;1:e87. doi: 10.1038/cddis.2010.67. PubMed PMID: 21368860; PubMed Central PMCID: PMC3035900.

8: Lozupone F, Perdicchio M, Brambilla D, Borghi M, Meschini S, Barca S, Marino ML, Logozzi M, Federici C, Iessi E, de Milito A, Fais S. The human homologue of *Dictyostelium discoideum* phg1A is expressed by human metastatic melanoma cells. *EMBO Rep.* 2009 Dec;10(12):1348-54. doi: 10.1038/embor.2009.236. Epub 2009 Nov 6. PubMed PMID: 19893578; PubMed Central PMCID: PMC2799214.

9: De Milito A, Canese R, Marino ML, Borghi M, Iero M, Villa A, Venturi G, Lozupone F, Iessi E, Logozzi M, Della Mina P, Santinami M, Rodolfo M, Podo F, Rivoltini L, Fais S. pH-dependent antitumor activity of proton pump inhibitors against human melanoma is mediated by inhibition of tumor acidity. *Int J Cancer.* 2010 Jul 1;127(1):207-19. doi: 10.1002/ijc.25009. PubMed PMID: 19876915.

10: Logozzi M, De Milito A, Lugini L, Borghi M, Calabrò L, Spada M, Perdicchio M, Marino ML, Federici C, Iessi E, Brambilla D, Venturi G, Lozupone F, Santinami M, Huber V, Maio M, Rivoltini L, Fais S. High levels of exosomes expressing CD63 and caveolin-1 in plasma of melanoma patients. *PLoS One.* 2009;4(4):e5219. doi: 10.1371/journal.pone.0005219. Epub 2009 Apr 17. PubMed PMID: 19381331; PubMed Central PMCID: PMC2667632.

Recenti partecipazioni a convegni

1: Massimo Bonucci, Dina Pero, Andrea Geraci, Daniele Cordella, Alessandro Porcu, Carla Fiorentini, Laura del Campo, Francesco De Lorenzo, and Francesco Lozupone. Complementary and integrative approaches in cancer: a pilot survey of attitudes and habits among cancer patients in Italy: preliminary results. Presentato al 16 "Annual International Conference on Integrative Oncology" della Society for Integrative Oncology (SIO) a New York dal 19 al ottobre 2019

2: Francesco Lozupone, Dina Pero, Andrea Geraci, Daniele Cordella, Alessandro Porcu, Laura del Campo, Francesco De Lorenzo, Massimo Bonucci. Complementary and integrative approaches in cancer: a pilot survey of attitudes and habits among cancer patients. Presentato al "Convegno Internazionale su Oncologia Integrata e Cervello Centrale e Cervelli Periferici", a Firenze dal 23 al 25 marzo 2018.

3: Matteo Radice, Matteo Chiurato, Alessandra Guerrini, and Francesco Lozupone. Antiproliferative activity of Psidium guajava essential oil: a preliminary study. MOL2NET, International Conference Series on Multidisciplinary Sciences 2017

Cancer cell cannibalism: A primeval option to survive Lozupone, F., Fais, S. 2015 *Current Molecular Medicine* 15(9), pp. 836-841 [iew abstract](#) [View at Publisher Related documents](#)

TM9SF4 is a novel V-ATPase-interacting protein that modulates tumor pH alterations associated with drug resistance and invasiveness of colon cancer cells Lozupone, F., Borghi, M., Marzoli, F., (...), Cara, A., Fais, S. 2015 *Oncogene* 34(40), pp. 5163-5174 36 [View abstract](#) [View at Publisher Related documents](#)

Insulin-like-growth-factor-binding-protein-3 (IGFBP-3) contrasts melanoma progression in vitro and in vivo [Open Access](#)

Naspi, A., Panasiti, V., Abbate, F., (...), Calvieri, S., Londei, P. 2014 *PLoS ONE* 9(6),e98641 14 [View abstract](#) [View at Publisher Related documents](#)

Dormant Mycobacterium tuberculosis fails to block phagosome maturation and shows unexpected capacity to stimulate specific human T lymphocytes [Open Access](#)

Mariotti, S., Pardini, M., Gagliardi, M.C., (...), Meschini, S., Nisini, R. 2013 *Journal of Immunology* 191(1), pp. 274-282 18 [View abstract](#) [View at Publisher Related documents](#)

P-glycoprotein binds to ezrin at amino acid residues 149-242 in the FERM domain and plays a key role in the multidrug resistance of human osteosarcoma Brambilla, D., Zamboni, S., Federici, C., (...), Cianfriglia, M., Fais, S. 2012 *International Journal of Cancer* 130(12), pp. 2824-2834 40 [View abstract](#) [View at Publisher Related documents](#)

PH-dependent antitumor activity of proton pump inhibitors against human melanoma is mediated by inhibition of tumor acidity De Milito, A., Canese, R., Marino, M.L., (...), Rivoltini, L., Fais, S. 2010 *International Journal of Cancer* 127(1), pp. 207-219 158 [View abstract](#) [View at Publisher Related documents](#)

Proton pump inhibition induces autophagy as a survival mechanism following oxidative stress in human melanoma cells [Open Access](#)

Marino, M.L., Fais, S., Djavaheri-Mergny, M., (...), Codogno, P., De Milito, A. 2010 *Cell Death and Disease* 1(10),e87 109 [View abstract](#) [View at Publisher Related documents](#)

The human homologue of Dictyostelium discoideum phg1A is expressed by human metastatic melanoma cells Lozupone, F., Perdicchio, M., Brambilla, D., (...), De Milito, A., Fais, S. 2009 *EMBO Reports* 10(12), pp. 1348-1354 44

[View abstract](#) [View at Publisher Related documents](#)

Small interfering RNA targeting the subunit ATP6L of proton pump V-ATPase overcomes chemoresistance of breast cancer cells You, H., Jin, J., Shu, H., (...), Gu, J., Qin, W. 2009 Cancer Letters 280(1), pp. 110-119

57

[View abstract](#) [View at Publisher Related documents](#)

Pleiotropic function of ezrin in human metastatic melanomas Federici, C., Brambilla, D., Lozupone, F., (...), Malorni, W., Fais, S. 2009 International Journal of Cancer 124(12), pp. 2804-2812

32

[View abstract](#) [View at Publisher Related documents](#)

High levels of exosomes expressing CD63 and caveolin-1 in plasma of melanoma patients
Open Access

Logozzi, M., De Milito, A., Lugini, L., (...), Rivoltini, L., Fais, S. 2009 PLoS ONE 4(4), e5219

446

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Proton pump inhibitors induce apoptosis of human B-cell tumors through a caspase-independent mechanism involving reactive oxygen species

Open Access

De Milito, A., Iessi, E., Logozzi, M., (...), Nilsson, A., Fais, S. 2007 Cancer Research 67(11), pp. 5408-5417

196

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Mutually exclusive NRASQ61R and BRAFV600E mutations at the single-cell level in the same human melanoma

Open Access

Sensi, M., Nicolini, G., Petti, C., (...), Fais, S., Anichini, A. 2006 Oncogene 25(24), pp. 3357-3364

116

[View abstract](#) [View at Publisher Related documents](#)

Cannibalism of live lymphocytes by human metastatic but not primary melanoma cells

Open Access

Lugini, L., Matarrese, P., Tinari, A., (...), Malorni, W., Fais, S. 2006 Cancer Research 66(7), pp. 3629-3638

173

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The role of FAS to ezrin association in FAS-mediated apoptosis