



Massimo Nabissi

Associate professor



339-5273634



massimo.nabissi@yhaoo.com

++390737403306

massimo.nabissi@unicam.it

SUMMARY

Associate professor in Technical Sciences in Laboratory Medicine (MED/46)

CAREER

Research interest: Cannabinoids, Phytotherapy, Oncology, Immunology.

JANUARY 2017-PRESENT

ASSOCIATE PROFESSOR

University of Camerino

- Molecular and cellular biology studies in human cancers: endometrium, glioblastoma, multiple myeloma, bladder, prostate, pancreas.
- Plant extracts activities in inflammation and cancer.
- Diet supplements effects in human health

2008-2017

ASSISTANT PROFESSOR IN GENERAL PATHOLOGY

University of Camerino

2004 - 2007

POST-DOC IN GENERAL PATHOLOGY

University of
Camerino

1998 - 2004

SENIOR SCIENTIST

Biosistema S.r.l.,
Rome (IT)

1996 - 1998

FELLOWSHIP IN MOLECULAR ENDOCRINOLOGY

University of
Camerino

EDUCATION

1992-1996

PHD IN MOLECULAR ENDOCRINOLOGY

University of
Camerino

1988-1992

MASTER DEGREE BIOLOGICAL SCIENCES

University of
Camerino

- Judgment: 107/110

SCIENTIFIC TRAINING AND CONSULTING

1993 INVITED RESEARCHER
UNIVERSITY OF CALGARY

1995 - EMBO FELLOWSHIP EMBO PRACTICAL COURSE: TEL-AVIV
UNIVERSITY

1997 EMBO PARTICIPANT EMBO WORKSHOP, ERICE, TRAPANI (ITALY)

1998 CONSULTANT IN BIOTECHNOLOGY, MENARINI BIOTECH S.R.L.
POMEZIA, ROME.

1998 CONSULTANT MICROPLATE DNA TECHNOLOGY, INNOSENSE
S.R.L. BIOPARK, COLLERETTO GIANOSA, (ITALY) PROFESSIONAL,

2018- ASSOCIATE EDITOR:
FRONTIERS IN ONCOLOGY
JOURNAL OF MOLECULAR SCIENCES, SECTION "MOLECULAR
ONCOLOGY".

SKILLS

- Cell culture (normal cell lines, cancer cell lines, primary cell lines, 3D culture)
- Cytotoxicity assay (MTT, SRB)
- Cytofluorimetric analysis (Cell cycle analysis, Annexin/PI assay, Proliferation BrdU assay)
- Immunohistochemistry
- RNA extraction, cDNA synthesis, RT-PCR, digital droplet PCR, cell transfection and gene silencing, DNA electrophoresis, Comet Assay, western blot, ELISA
- Migration assay, autophagy

SPIN-OFF

CEO Start UP ITD lab. (Integrative Therapy Discovery lab.).Spin off UNICAM

GRANTS-PATENTS

- PSR Marche 2019.
- Entourage Biosciences. 2019
- Enecta 2019
- Fondazione Amor Onlus. 2019
- FAR 2019.
- UNICAM. FFABR 2017.
- Sakura. 2017
- SinBiotech granted. 2017
- FiberPasta s.r.l. 2017.
- EPO s.r.l. . 2017.
- 11. FAR Unicam. 2016
- EPO (Istituto Farmochimico Italiano). 2016.
- Hematology Department, UNIPM). 2015.
- AIRC 2014.
- FAR 2013.
- AIL (Ospedali Riuniti, AN).2010.
- National Research Program (PRIN 2010).
- FHP of R. Freudenberg sas. 2009.

PATENTS

Use of Cannabinoids in the treatment of multiple myeloma.

WO/2018/0372032.

Use of substance P antagonists in the treatment of the adenocarcinomas.

United States Patent: 6,576,638 . PCT NO: PCT/EP00/06309. PCT PUB.NO.: WO01/01922

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- Marinelli O, Annibali D, Morelli MB, Zeppa L, Tuyaerts S, Aguzzi C, Amantini C, Maggi F, Ferretti B, Santoni G, Amant F and Nabissi M (2020) Biological Function of PD-L2 and Correlation With Overall Survival in Type II Endometrial Cancer. *Front. Oncol.* 10:538064. doi: 10.3389/fonc.2020.538064
 - Aguzzi C, Marinelli O, Zeppa L, Santoni G, Maggi F, Nabissi M. Evaluation of anti-inflammatory and immunoregulatory activities of Stimunex® and Stimunex D3® in human monocytes/macrophages stimulated with LPS or IL-4/IL-13. *Biomed Pharmacother.* 2020 Oct 17;132:110845. doi: 10.1016/j.biopha.2020.110845.
 - Luongo M, Marinelli O, Zeppa L, Aguzzi C, Morelli MB, Amantini C, Frassinetti A, di Costanzo M, Fanelli A, Santoni G, Nabissi M. Cannabidiol and Oxygen-Ozone Combination Induce Cytotoxicity in Human Pancreatic Ductal Adenocarcinoma Cell Lines. *Cancers (Basel).* 2020 Sep 27;12(10):E2774. doi: 10.3390/cancers12102774.
 - Marinelli O, Morelli MB, Annibali D, Aguzzi C, Zeppa L, Tuyaerts S, Amantini C, Amant F, Ferretti B, Maggi F, Santoni G, Nabissi M. The Effects of Cannabidiol and Prognostic Role of TRPV2 in Human Endometrial Cancer. *Int J Mol Sci.* 2020 Jul 29;21(15):5409. doi: 10.3390/ijms21155409.
 - Rossi P, Cappelli A, Marinelli O, Valzano M, Pavoni L, Bonacucina G, Petrelli R, Pompei P, Mazzara E, Ricci I, Maggi F, Nabissi M. Mosquitocidal and Anti-Inflammatory Properties of The Essential Oils Obtained from Monoecious, Male, and Female Inflorescences of Hemp (*Cannabis sativa* L.) and Their Encapsulation in Nanoemulsions. *Molecules.* 2020 Jul 29;25(15):3451. doi: 10.3390/molecules25153451.
 - Santoni G, Morelli MB, Marinelli O, Nabissi M, Santoni M, Amantini C. Calcium Signaling and the Regulation of Chemosensitivity in Cancer Cells: Role of the Transient Receptor Potential Channels. *Adv Exp Med Biol.* 2020;1131:505-517
 - Santoni G, Morelli MB, Santoni M, Nabissi M, Marinelli O, Amantini C. Targeting Transient Receptor Potential Channels by MicroRNAs Drives Tumor Development and Progression. *Adv Exp Med Biol.* 2020;1131:605-623.
 - Santoni G, Amantini C, Maggi F, Marinelli O, Santoni M, Nabissi M, Morelli MB. The TRPV2 cation channels: from urothelial cancer invasiveness to glioblastoma multiforme interactome signature. *Lab Invest.* 2019 Oct 252019
 - Scheiner M, Dolles D, Gunesch S, Hoffmann M, Nabissi M, Marinelli O, Naldi M, Bartolini M, Petralla S, Poeta E, Monti B, Falkeis C, Vieth M, Hübner H, Gmeiner P, Maitra R, Maurice T, Decker M. Dual-Acting Cholinesterase-Human Cannabinoid Receptor 2 Ligands Show Pronounced Neuroprotection in Vitro and Overadditive and Disease-Modifying Neuroprotective Effects in Vivo. *J Med Chem.* 2019 Oct 14.
 - Marinelli O, Annibali D, Aguzzi C, Tuyaerts S, Amant F, Morelli MB, Santoni G, Amantini C, Maggi F and Nabissi M (2019) The Controversial Role of PD-1 and Its Ligands in Gynecological Malignancies. *Front. Oncol.* 9:1073. doi: 10.3389/fonc.2019.01073
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- Amantini C, Morelli MB, Nabissi M, Piva F, Marinelli O, Maggi F, Bianchi F, Bittoni A, Berardi R, Giampieri R, Santoni G. Expression Profiling of Circulating Tumor Cells in Pancreatic Ductal Adenocarcinoma Patients: Biomarkers Predicting Overall Survival. *Front Oncol.* 2019 Sep 10;9:874. [2]
 - Nabissi, M., Amant, F., Gehrig, P., eds. (2019). *Endometrial Cancer: From Biological to Clinical Approaches*. Lausanne: Frontiers Media. doi: 10.3389/978-2-88963-049-3 [3]
 - Morelli MB, Amantini C, Tomassoni D, Nabissi M, Arcella A, Santoni G. Transient Receptor Potential Mucolipin-1 Channels in Glioblastoma: Role in Patient's Survival. *Cancers (Basel).* 2019 Apr 12;11(4).
 - Morelli MB, Amantini C, Nabissi M, Santoni G, Wünsch B, Schepmann D, Cimarelli C, Pellei M, Santini C, Fontana S, Mammoli V, Quaglia W, Bonifazi A, Giannella M, Giorgioni G, Piergentili A, Del Bello F. Role of the NMDA Receptor in the Antitumor Activity of Chiral 1,4-Dioxane Ligands in MCF-7 and SKBR3 Breast Cancer Cells. *ACS Med Chem Lett.* 2019 Jan 28;10(4):511-516
 - Brunetti A, Marinelli O, Morelli MB, Iannarelli R, Amantini C, Russotti D, Santoni G, Maggi F, Nabissi M. Isofuranodiene synergizes with temozolomide in inducing glioma cells death. *Phytomedicine.* 2019 Jan;52:51-59.
 - Nabissi M, Marinelli O, Morelli MB, Nicotra G, Iannarelli R, Amantini C, Santoni G, Maggi F. Thyme extract increases mucociliary-beating frequency in primary cell lines from chronic obstructive pulmonary disease patients. *Biomed Pharmacother.* 2018 Sep;105:1248-1253
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 - Benelli G, Pavela R, Lupidi G, Nabissi M, Petrelli R, Ngahang Kamte SL, Cappellacci L, Fiorini D, Sut S, Dall'Acqua S, Maggi F. The crop-residue of fiber hemp cv. Futura 75: from a waste product to a source of botanical insecticides. *Environ Sci Pollut Res Int.* 2018;25(11):10515-10525.
 - Santoni G, Amantini C, Morelli MB, Tomassoni D, Santoni M, Marinelli O, Nabissi M, Cardinali C, Paolucci V, Torniai M, Rinaldi S, Morgese F, Bernardini G, Berardi R. High CTLA-4 expression correlates with poor prognosis in thymoma patients. *Oncotarget.* 2018;9(24):16665-16677
 - Dolles D, Hoffmann M, Gunesch S, Marinelli O, Möller J, Santoni G, Chatonnet A, Lohse MJ, Wittmann HJ, Strasser A, Nabissi M, Maurice T, Decker M. Structure-Activity Relationships and Computational Investigations into the Development of Potent and Balanced Dual-Acting Butyrylcholinesterase Inhibitors and Human Cannabinoid Receptor 2 Ligands with Pro-Cognitive in Vivo Profiles. *J Med Chem.* 2018, 22;6:1646-1663.

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- Benelli G, Pavela R, Lupidi G, Nabissi M, Petrelli R, Ngahang Kamte SL, Cappellacci L, Fiorini D, Sut S, Dall'Acqua S, Maggi F. The crop-residue of fiber hemp cv. Futura 75: from a waste product to a source of botanical insecticides. *Environ Sci Pollut Res Int*. 2017 Nov 6.
- De Petrocellis G., Nabissi M., Santoni G., Ligresti A. Actions and Regulation of Ionotropic Cannabinoid Receptors. In David Kendall and Stephen P.H. Alexander, editors: *Cannabinoid Pharmacology*, Vol 80, APHA, UK: Academic Press, 2017, pp. 249-289.
- Wołoszyn A, Pettinari C, Pettinari R, Badillo Patzmay GV, Kwiecień A, Lupidi G, Nabissi M, Santoni G, Smoleński P. Ru(ii)-(PTA) and -mPTA complexes with N2-donor ligands bipyridyl and phenanthroline and their antiproliferative activities on human multiple myeloma cell lines. *Dalton Trans*. 2017 Jul 21. 2016
- Maria Beatrice Morelli, Consuelo Amantini, Massimo Nabissi, Claudio Cardinali, Matteo Santoni, Giovanni Bernardini, Angela Santoni, Giorgio Santoni. Axitinib induces senescence-associated cell death and necrosis in glioma cell lines. The proteasome inhibitor, bortezomib, potentiates axitinib-induced cytotoxicity in a p21(Waf/Cip1) dependent manner. *Oncotarget*, 2016. Dec. 1
- Massimo Nabissi, Maria Beatrice Morelli, Antonietta Arcella, Claudio Cardinali, Matteo Santoni, Giovanni Bernardini, Angela Santoni, Giorgio Santoni, Consuelo Amantini. Post-transcriptional regulation of 5' untranslated regions of human Transient Receptor Potential Vanilloid type-1 (TRPV-1) channels: role in the survival of glioma patients. *Oncotarget*, 2016. Nov 7
- Nabissi M, Morelli MB, Offidani M, Amantini C, Gentili S, Soriani A, Cardinali C, Leoni P, Santoni G. Cannabinoids synergize with carfilzomib, reducing multiple myeloma cells viability and migration. *Oncotarget*. 2016 Oct 18.
- Cuccioloni M, Bonfili L, Mozzicafreddo M, Cecarini V, Scuri S, Cocchioni M, Nabissi M, Santoni G, Eleuteri AM, Angeletti M. Mangiferin blocks proliferation and induces apoptosis of breast cancer cells via suppression of the mevalonate pathway and by proteasome inhibition. *Food Funct*. 2016 Oct 12;7(10):4299-4309.
- Marinelli Oliviero, Innarelli Romilde I, Morelli Maria Beatrice, Valisi Matteo, Nicotra Giovanna, Amantini Consuelo, Cardinali Claudio, Santoni Giorgio, Maggi Filippo, Nabissi Massimo. Evaluations of thyme extract effects in human normal bronchial and tracheal epithelial cell lines and in human lung cancer cell line. *Chem Biol Interact*. 2016 Jun 29;256:125-133
- Amantini C, Morelli MB, Nabissi M, Cardinali C, Santoni M, Gismondi A, Santoni G. Capsaicin triggers autophagic cell survival which drives epithelial mesenchymal transition and chemoresistance in bladder cancer cells in an Hedgehog-dependent manner. *Oncotarget*. 2016 Jun 29.
- Morelli MB, Nabissi M, Amantini C, Tomassoni D, Rossi F, Cardinali C, Santoni M, Arcella A, Oliva MA, Santoni A, Polidori C, Mariani MP, Santoni G. Overexpression of transient receptor potential mucolipin-2 ion channels in gliomas: role in tumor growth and progression. *Oncotarget*. 2016 May 27.

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- Riccardo Pettinari, Fabio Marchetti, Agnese Petrini, Claudio Pettinari, Giulio Lupidi, Belén Fernández, Antonio Rodríguez Diéguez, Giorgio Santoni, Massimo Nabissi. Ruthenium(II)-arene complexes with dibenzoylmethane induce apoptotic cell death in multiple myeloma cell lines. *Inorganica Chimica Acta* (2016).
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- Chiara Ciccarese, Matteo Santoni, Matteo Brunelli, Sebastiano Buti, Alessandra Modena, Massimo Nabissi, Walter Artibani, Guido Martignoni, Rodolfo Montironi, Giampaolo Tortora, Francesco Massari. AR-V7 and prostate cancer: The watershed for treatment selection? *Cancer Treatment Reviews*. 2015; Vol. 43, p27–35
- Morelli MB, Amantini C, Santoni M, Soriani A, Nabissi M, Cardinali C, Santoni A, Santoni G. Axitinib induces DNA damage response leading to senescence, mitotic catastrophe, and increased NK cell recognition in human renal carcinoma cells. *Oncotarget*. 2015 Oct 14.
- Bonifazi A, Del Bello F, Mammoli V, Piergentili A, Petrelli R, Cimarelli C, Pellei M, Schepmann D, Wunsch B, Barocelli E, Bertoni S, Flammini L, Amantini C, Nabissi M, Santoni G, Vistoli G, Quaglia W. Novel Potent N-Methyl-D-Aspartate (NMDA) Receptor Antagonists or σ 1 Receptor Ligands Based on Properly Substituted 1,4-Dioxane Ring. *J Med Chem*. 2015 Oct 2.
- Concetti F, Carpi FM, Nabissi M, Picciolini M, Santoni G, Napolioni V. The functional polymorphism rs73598374:G>A (p.Asp8Asn) of the ADA gene is associated with telomerase activity and leukocyte telomere length. *Eur J Hum Genet*. 2015;23(2):267-70.
- Massimo Nabissi, Maria Beatrice Morelli, Consuelo Amantini, Sonia Liberati, Valerio Napolioni, Matteo Santoni, Valerio Farfariello, Claudio Cardinali, Giorgio Santoni. Potential Roles of Cannabinoids in Cell Therapy for CNS Neurodegenerative Disorders. *Frontiers in Clinical Drug Research -CNS and Neurological Disorders*, 2015: pp.3-18
- Nabissi MF.A., C.A, Morelli MB, Amantini C, Liberati S, Santoni M, Ricci-Vitiani L, Pallini R, Santoni G. Cannabidiol stimulates Aml-1a-dependent glial differentiation and inhibits glioma stem-like cells proliferation by inducing autophagy in a TRPV2-dependent manner. *Int J Cancer*. 2015 Apr 22.
- Matteo Santoni, Kalliopi Andrikou, Valeria Sotte, Alessandro Bittoni, Andrea Lanese, Chiara Pellei, Francesco Piva, Alessandro Conti, Massimo Nabissi, Giorgio Santoni, Stefano Cascinu. Toll like receptors and pancreatic diseases: from a pathogenetic mechanism to a therapeutic target. *Cancer Treatment Reviews*. 04/2015.
- Amantini C, Morelli MB, Santoni M, Soriani A, Cardinali C, Farfariello V, Eleuteri AM, Bonfili L, Mozzicafreddo M, Nabissi M, Cascinu S, Santoni G. Sorafenib induces cathepsin B-mediated apoptosis of bladder cancer cells by regulating the Akt/PTEN pathway. The Akt inhibitor, perifosine, enhances the sorafenib-induced cytotoxicity against bladder cancer cells. *Oncoscience*. 2015; 23;2(4):395-409
- Santoni G, Cardinali C, Morelli M, Santoni M, Nabissi M, Amantini C. Danger- and pathogen-associated molecular patterns recognition by pattern-recognition receptors and ion channels of the transient receptor potential family triggers the inflammasome activation in immune cells and sensory neurons. *J Neuroinflammation*. 2015;12(1):21. [
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PUBLICATIONS

- [Morelli MB, Amantini C, Nabissi M, Liberati S, Cardinali C, Farfariello V, Tomassoni D, Quaglia W, Piergentili A, Bonifazi A, Del Bello F, Santoni M, Mammana G, Servi L, Filosa A, Gismondi A, Santoni G. Cross-talk between alpha1D-adrenoceptors and transient receptor potential vanilloid type 1 triggers prostate cancer cell proliferation. *BMC Cancer*. 2014;14:921.
- [Farfariello V, Liberati S, Morelli MB, Tomassoni D, Santoni M, Nabissi M, Giannantoni A, Santoni G, Amantini C. Resiniferatoxin induces death of bladder cancer cells associated with mitochondrial dysfunction and reduces tumor growth in a xenograft mouse model. *Chem Biol Interact*. 2014;224C:128-135.
- Liberati S, Morelli MB, Amantini C, Santoni M, Nabissi M, Cardinali C, Santoni G. Advances in transient receptor potential vanilloid-2 channel expression and function in tumor growth and progression. *Curr Protein Pept Sci*. 2014;15(7):732-7.
- Santoni M, Bracarda S, Nabissi M, Massari F, Conti A, Bria E, Tortora G, Santoni G, Cascinu S. CXC and CC chemokines as angiogenic modulators in nonhaematological tumors. *Biomed Res Int*. 2014;2014:768758.
- Concetti F, Carpi FM, Nabissi M, Picciolini M, Santoni G, Napolioni V. The functional polymorphism rs73598374:G>A (p.Asp8Asn) of the ADA gene is associated with telomerase activity and leukocyte telomere length. *Eur J Hum Genet*. 2014.
- Pettinari R, Pettinari C, Marchetti F, Skelton BW, White AH, Bonfili L, Cuccioloni M, Mozzicafreddo M, Cecarini V, Angeletti M, Nabissi M, Eleuteri AM. Arene-ruthenium(II) acylpyrazolonato complexes: apoptosis-promoting effects on human cancer cells. *J Med Chem*. 2014;57(11):4532-42.
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- M.B. Morelli, S. Liberati, C. Amantini, M. Santoni, M. Nabissi, V. Farfariello, G. Santoni. Epigenetic, genetic and acquired regulation of Cav3 T-Type calcium channel expression and function in tumor growth and progression. *Pathologies of Calcium Channel*, 2013 Eds. Weiss N., Koschak A. Eds. Part I, Chapter 9.
- Morelli MB, Liberati S, Amantini C, Nabissi M, Santoni M, Farfariello V, Santoni G. Expression and Function of the Transient Receptor Potential Ion Channel Family in the Hematologic Malignancies. *Curr Mol Pharmacol*. (2013), Jul 8.

PUBLICATIONS

- M Santoni, C Amantini, M B Morelli, S Liberati, V Farfariello, M Nabissi, L Bonfili, A M Eleuteri, M Mozzicafreddo, L Burattini, R Berardi, S Cascinu and G Santoni. Pazopanib and sunitinib trigger autophagic and non-autophagic death of bladder tumour cells. *British J. Canc* (2013), 1–11 | doi: 10.1038/bjc.2013.420
- Concetti F, Lucarini N, Carpi FM, Di Pietro F, Dato S, Capitani M, Nabissi M, Santoni G, Mignini F, Passarino G, Napolioni V. The functional VNTR MNS16A of the TERT gene is associated with human longevity in a population of Central Italy. *Exp Gerontol*. 2013;48(6):587-92.
- Liberati S, Morelli MB, Nabissi M, Santoni M, Santoni G. Oncogenic and Anti-Oncogenic Effects of Transient Receptor Potential Channels. *Curr Top Med Chem*. 2013 Feb 13
- M. Santoni, L. Burattini, M. Nabissi, M.B. Morelli, R. Berardi, G. Santoni, S. Cascinu. Essential Role of Gli Proteins in Glioblastoma Multiforme. *Current Protein & Peptide Science*. March 2013.
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- Morelli MB, Amantini C, Santoni M, Nabissi MC.A.. TRP channels: New potential therapeutic approaches in CNS neuropathies. *CNS & Neurological Disorders-Drug Targets*. 2013 Feb 27.
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- Santoni G, Santoni M, Nabissi M. Functional Role of T-type Calcium Channels in Tumour Growth and Progression: Prospective in Cancer Therapy. *Br J Pharmacol*. 2012 Feb 21.2011
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