

Maria Beatrice Morelli

Research fellow

SUMMARY

Researcher in Immunopathology with expertise in cellular and molecular biology, immuno-oncology and phytomedicine

CAREER

01/04/2020 - PRESENT	RESEARCH FELLOW (MED/04)
University of Camerino	<ul style="list-style-type: none">• Research project "Physiological neuronal activity in the control of glioma progression and tumor microenvironment" (PRIN 2017)
01/04/2018- 31/03/2020	POST-DOCTORAL RESEARCHER
University of Camerino	<ul style="list-style-type: none">• Granted by Fondazione Veronesi• Research project "Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancer patients"
15/01/2018- 15/04/2018	POST-DOCTORAL RESEARCHER
University of Camerino	<ul style="list-style-type: none">• Evaluation of phytotherapeutic compound in bone metabolism
01/10/2017- 31/12/2017	POST-DOCTORAL RESEARCHER
University of Rome Sapienza	<ul style="list-style-type: none">• Granted by ISTITUTO PASTEUR ITALIA - FONDAZIONE CENCI BOLOGNETTI
1/10/2014- 30/09/2017	RESEARCH FELLOW (MED/04)
University of Camerino - University of Rome Sapienza	<ul style="list-style-type: none">• Research project "Molecular events regulating anti-cancer NK cell mediated stress surveillance response induced by chemotherapy" (MED/04)

1/03/2014
30/09/2014
University of Camerino

10/01/2011-
31/12/2013
University of Camerino

02/04/2007-
15/11/2007
University of Rome Sapienza

02/05/2007-
31/08/2009
University of Camerino

RESEARCH FELLOW (MED/04)

- Research project "Molecular and functional profile of Transient Receptor Potential (TRP) channels in glioma"

POST-DOCTORAL RESEARCHER

- Research project "Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer"
- FIRC National Grant

RESEARCH FELLOW

- Granted by FILAS, Lazio Region
- Research in human reproduction

RESEARCH FELLOW

- Granted by Pio Sodalizio dei Piceni
- Research project "The expression of different vanilloid receptors (TRPVs) in human glioma cells: role of chemokine receptors in the sensitization of TRPVs involved in the regulation of survival, growth and migration pathways of glioma cells"

EDUCATION

2017-2023

ASN 05/F1-BIOLOGIA APPLICATA (BIO/13)

- <https://asn16.cineca.it/pubblico/miur/esito/05%252FF1/2/2>

01/11/2007-
31/10/2010
University of Rome Sapienza

PHD IN IMMUNOLOGICAL SCIENCES

- Research project "Role of Transient Receptor Potential Vanilloid channels (TRPV) in regulating cell viability and chemoresistance pathways in human cancers: glioblastoma, multiple myeloma, bladder and prostate"

2006

QUALIFICATION TO BIOLOGIST PROFESSION

2004-2006
University of
Rome Sapienza

**MASTER DEGREE IN MEDICAL,
MOLECULAR AND CELLULAR
BIOTECHNOLOGY**

- Research project "Characterization, expression and functional activity of PACAP and its receptors in human granulosa-luteal cells" in collaboration with Technobios Procreazione (Bologna)
- Judgment: 110/110 cum laude

2001-2004

**Completed
Requirements
for High School**

BACHELOR DEGREE IN BIOTECHNOLOGY

- Research project "PACAP and relative receptors in mouse ovary"
- Judgment: 110/110 cum laude

2001

CLASSICAL DEGREE

**TECHNICAL
SKILLS AND
COMPETENCES**

Ability to plan and complete a project. Ability to autonomously organize work, setting priorities and taking responsibilities. Familiarity with laboratory procedures, equipment, and protocols.

- Cell culture (normal cell lines, stem cells, cancer cell lines, circulating tumor cells, primary cell lines, 3D culture)
- Cytotoxicity assay (MTT, SRB)
- Cytofluorimetric analysis (Cell cycle analysis, Annexin/PI assay, BrdU incorporation, Autophagy, Oxidative stress, Mitochondrial depolarization)
- Immunohistochemistry, immunofluorescence, confocal analysis, western blot, ELISA
- DNA/RNA extraction, cDNA synthesis, RT-PCR, digital droplet PCR, cell transfection and gene silencing, DNA electrophoresis, Comet Assay
- Migration and invasion assay
- Excellent knowledge of data analysis programs and statistical analysis tools (CellQuest, Cyflogic, WinMDI, FlowJo, GraphPad, MedCalc)
- Excellent knowledge of operating systems (Windows, MacOS), biological databases (cBioPortal, GenomeNet) and bioinformatics tools (Graphpad Prism software, MatLab).

PERSONAL SKILLS

Forein language

English

PARTICIPATION IN RESEARCH PROJECTS

2019-PRESENT

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by Fondazione Maria Guarino Amor Onlus

2019-PRESENT

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by ENECTA s.r.l.

2019-PRESENT

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by ENTOURAGE BIOSCIENCES

2018-2020

PRINCIPAL INVESTIGATOR

- Research project: "Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancer patients"

Granted by Fondazione Umberto Veronesi

2015-2018

PARTECIPANT TO SCIENTIFIC PROJECT

- AIRC 2014 project "Circulating tumor cells and exosomes in human pancreatic cancer. The impact on prognosis and treatment strategy"

2015-2018

PARTECIPANT TO SCIENTIFIC PROJECT

- Research project "CHEMICAL "SWISS TOOLS" TO TREAT TUMORS, METASTASES AND INFECTIONS" (FAR 2014-2015 – University of Camerino)

2013-2015

PARTECIPANT TO SCIENTIFIC PROJECT

- Research project "Therapy of renal tumors"

Granted by Pfizer

2011-2013

PRINCIPAL INVESTIGATOR

- Research project "Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer"
Granted by FIRC National Grant

2010-2013

PARTECIPANT TO SCIENTIFIC PROJECT

- Project "Le scienze omiche come strumento per la ricerca traslazionale in neurooncologia" (PRIN 2010)

2007-2009

PRINCIPAL INVESTIGATOR

- Research project: "The expression of different vanilloid receptors (TRPVs) in human glioma cells: role of chemokine receptors in the sensitization of TRPVs involved in the regulation of survival, growth and migration pathways of glioma cells."
- Granted by Pio Sodalizio dei Piceni

2007

PRINCIPAL INVESTIGATOR

- Research in human reproduction granted by FILAS, Lazio region

**PROFESSIONAL
MEMBERSHIP**

2021-PRESENT

**ASSOCIAZIONE ITALIANA COLTURE
CELLULARI, MEMBER**

2017-PRESENT

**SOCIETÀ ITALIANA CANCEROLOGIA,
MEMBER**

2017-PRESENT

EACR, MEMBER

EDITORIAL BOARD MEMBER

ACADEMIC EDITOR

- Analytical Cellular Pathology
<https://www.hindawi.com/journals/acp/editors/>
- Review Editor for Frontiers in Neurology and Frontiers in Oncology
(<https://www.frontiersin.org/journals/oncology/sections/neuro-oncology-and-neurosurgical-oncology#editorial-board>)

GUEST EDITOR

- International Journal of Molecular Sciences, Special Issue "Intracellular Calcium Levels and Cell Fate in Cancer: Interplay Between Senescence, Autophagy and Apoptosis"
https://www.mdpi.com/journal/ijms/special_issues/Calcium_Senescence
- Biomolecules, Special Issue "Transient Receptor Potential (TRP) Channels: Markers and Therapeutic Targets for Cancer?"
https://www.mdpi.com/journal/biomolecules/special_issues/Transient_Receptor_Potential_Channels_and_Cancer
- International Journal of Molecular Sciences, Special Issue "Tumor Microenvironment and Its Actors: Are Ion Channels Relevant?"
https://www.mdpi.com/journal/ijms/special_issues/Tumor_Channel

REVIEWER FOR INTERNATIONAL JOURNAL

- Cancers
- Cells
- Frontiers in Oncology
- Biomolecules, International Journal of Molecular Sciences
- OncoTargets and Therapy
- Oncotarget
- Cell Death and Disease
- Chemico-Biological Interaction
- BMC Complementary and Alternative Medicine
- Cellular Oncology
- Functional Foods in Health and Disease
- European Journal of Pharmacology
- Cell Proliferation
- Journal of Urology and Renal Disease
- Evidence-Based Complementary and Alternative Medicine
- Journal of Functional Food
- Journal of Immunology Research
- Analytical Cellular Pathology
- Acta Physiologica

ABSTRACT AND CONGRESS PARTECIPATION

- Amantini C, Adolfo Rossi de Vermandois J, Gubbiotti M, Giannantoni A, Nabissi M, Marinelli O, Maggi F, Mearini E, Santoni G, Morelli MB. Potential Biomarkers for Bladder Cancer Derived from Peripheral Blood Circulating Tumor Cells. EACR, June 09-12, 2021.
- 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. Biological Function of PD-L2 and Correlation with Overall Survival in Type II Endometrial Cancer. EACR, June 09-12, 2021.
- Morelli MB. Emerging Role of TRPML1 in Cancer. Pharma R&D- 2021. February 22-24, 2021 in Webinar- keynote presentation
- Morelli MB. Circulating tumor cells to predict overall survival: a pilot study in pancreatic ductal adenocarcinoma. 5th Global Summit on Cancer Science and Oncology. February 26, 2021 in Webinar - keynote presentation and member of Organizing Committee
- Morelli MB. Emerging role of mucolipins in cancer: Rweview of current knowledge and an introduction to TRPML1 as prognostic biomarker in glioblastoma. 4th Global Summit on Cancer Science and Oncology. November 25, 2020 in Webinar- keynote presentation
- Amantini C, Morelli MB, Nabissi M, Santoni G. Gene expression profile of circulating tumor cells isolated from pancreatic ductal adenocarcinoma patients. EACR, Bergamo, Italy. May 15-17, 2019
- Marinelli O, Nabissi M, Morelli MB, Amantini C, Santoni G. Investigation of biological function of costimulatory b7 family members in endometrial cancer. Immuno-Oncology 2018 World Congress. Vienna, Austria. June 25-26, 2018
- Santini C, Pellei M, Bagnarelli L Cimarelli C, Del Bello F, Quaglia W, Morelli MB, Amantini C, Gandin V, Marzano C. Rational design and biological evaluation of novel conjugated heteroscorpionate ligands and related Copper (I/II) complexes. XVII Workshop on Pharmabiometallics, BIOMET. Napoli, Italy. February 16 – 17, 2018
- 3rd Annual Meeting of SIC Young Investigator - Ariano Irpino, Italy, September, 22, 2017
- Pallotti S, Pediconi D, Morelli MB, Dharaneedharan S, Molina MG, Antonini M, Renieri C, La Terza A. ALPACA FGF5: HYPOTHETICAL POST-TRASCRITIONAL READTHROUGH REGULATION IN SKIN BIOPSIES. 7th European Symposium on South American Camelids and 3rd European Meeting on Animal Fibers. Assisi, June 12-14, 2017
- Iannarelli R, Morelli MB, Santoni G, Maggi F, Nabissi M. Evaluation of anise essential oil effects on LPS-induced inflammation in human normal tracheal and bronchial cells (HBEpC/HTEpC). 2nd Sino-Italian Symposium on Bioactive Natural Products. Napoli. November 24-25, 2016
- Liquid biopsy: tracking cancer. Rome, Italy, April 29,30, 2016

- Morelli MB, Santoni M, Amantini C, Nabissi M, Cardinali C, Conti A, Burattini L, Berardi R, Cascinu S, Santoni G. Axitinib induces apoptosis and senescence of renal carcinoma cells in vitro. XVI Congresso Nazionale AIOM, Rome, Italy. October 24-26, 2014
- Morelli MB, Offidani M, Discepoli G, Santoni M, Amantini C, Farfariello V, Liberati S, Leoni P, Santoni G, Nabissi M. Role of the Transient Receptor Potential Vanilloid-type2 Agonist Cannabidiol in Multiple Mieloma. 6th European Workshop on Cannabinoid Research. Dublin, Ireland. April 2013
- Amantini C, Farfariello V, Morelli MB, Nabissi M, Liberati S, Santoni M, Piergentili L, Quaglia W, Cascinu S and Santoni G. Cross-talk between α 1D-adrenergic receptor (α 1D -AR) and Transient Receptor Potential Vanilloid 1 (TRPV1) triggers the proliferation of PC-3 prostate cancer cells. Genitourinary Cancers Symposium. Orlando, FL. February 14-16, 2013
- Santoni M, Amantini C, Morelli MB, Farfariello V, Nabissi M, Liberati S, Bonfili L, Eleuteri AM, Mozzicafreddo M, Burattini L, Berardi R, Cascinu S and Santoni G. Sunitinib, Sorafenib and Pazopanib differently induce cancer cell death: the role of autophagy. Genitourinary Cancers Symposium . Orlando, FL. February 14-16, 2013
- Nabissi M, Offidani M, Morelli MB, Discepoli G, Santoni M, Amantini C, Farfariello V, Liberati S, Santoni G and Leoni P. TRPV2 activation induces cytotoxicity in human multiple myeloma cell lines. International Workshop on Transient Receptor Potential Channels. Valencia, Spain. September 12-15, 2012
- Liberati S, Morelli MB, Nabissi M, Amantini C, Farfariello V, Santoni M, Ricci-Vitiani L, Compieta E and Santoni G. The transcription factor AML1, regulates the Transient Receptor Potential Vanilloid-2 (TRPV2) channel-mediated differentiation of glioblastoma stem cells. International Workshop on Transient Receptor Potential Channels. Valencia, Spain. September 12-15, 2012
- Farfariello V, Amantini C, Nabissi M, Morelli MB, Liberati S, Eleuteri AM, Bonfili L, Cecarini V, Sorice M and Santoni G. TRPV1-mediated autophagy in thymocytes is a consequence of proteasome inhibition and unfolded protein response activation. International Workshop on Transient Receptor Potential Channels. Valencia, Spain. September 12-15, 2012
- Amantini C, Farfariello V, Morelli MB, Nabissi M, Liberati S, Santoni M, Ranzuglia V, Cardinali C, Filosa A, Pieramici T, Ranaldi R, Piergentili L, Quaglia W and Santoni G. Cross-talk between alpha1d-adrenergic receptor and Transient Receptor Potential Vanilloid 1 (TRPV1) triggers the proliferation of PC-3 prostate cancer cells. International Workshop on Transient Receptor Potential Channels. Valencia, Spain. September 12-15, 2012

- Farfariello V, Nabissi M, Caprodossi S, Morelli MB, Liberati S, Santoni G, Amantini C. Triggering of Transient Potential Receptor Vanilloid 1 (TRPV1) induces autophagy that delays apoptotic cell death in murine thymocytes. 19th Euroconference on “Apoptosis, Metabolism, Epigenetics and Death” and 8th training course on “Concepts and methods in Programmed Cell Death. Stockholm, Sweden. September 14-17, 2011
- Amantini C, Caprodossi S, Ballarini P, Nabissi M, Morelli MB, Lucciarini R, Kalogris C, Cardarelli MA, Mammana G, Santoni G. Triggering of TRPV1 by capsaicin induces Fas/CD95- 17 mediated apoptosis of urothelial cancer cells in an ATM-dependent manner. TRP meeting “Transient Receptor Potential Channel: from sensory signalling to human diseases”. Stockholm, Sweden. September 26-27, 2009
- Amantini C, Nabissi M, Morelli MB, Farfariello V, Ricci-Vitiani L, Caprodossi S, Arcella A, Santoni M, Marinelli A, Giangaspero F, De Maria R, Santoni G. TRPV2 channel negatively controls glioma cell proliferation and resistance to CD95/Fas-induced apoptosis in ERK-dependent manner. TRP meeting “Transient Receptor Potential Channel: from sensory signalling to human diseases”. Stockholm, Sweden. September 26-27, 2009
- Farfariello V, Amantini C, Nabissi M, Morelli MB, Ricci-Vitiani L, Pallini R, Caprodossi S, Santoni M, De Maria R, Santoni G. TRPV2 modulates glioblastoma stem cell proliferation and differentiation. TRP meeting “Transient Receptor Potential Channel: from sensory signalling to human diseases”. Stockholm, Sweden. September 26-27, 2009
- Farfariello V, Nabissi M, Caprodossi S, Morelli MB, Santoni G, Amantini C. Capsaicin induces macroautophagy in mouse thymocytes through TRPV1 activation. TRP meeting “Transient Receptor Potential Channel: from sensory signalling to human diseases”. Stockholm, Sweden. September 26- 27, 2009
- Morelli MB, Amantini C, Ricci-Vitiani L, Pallini R, Arcella A, Caprodossi S, Giangaspero F, De Maria R, Pimponi S, Santoni G, Nabissi M. Role of TRPV2 in Cell Proliferation and Chemo-resistance of Human U87 Glioma Cells. 48th Annual Meeting of the American Society for Cell Biology. San Francisco, CA. December 13-19, 2008

EDUCATIONAL CONFERENCES

- Invited speaker as Fondazione Umberto Veronesi researcher "Ricercatori in classe: LA SCIENZA E LA RICERCA INCONTRANO I GIOVANI" Liceo Statale "Annibal Caro", Fermo, Italy. May 8, 2019
- Invited speaker as Fondazione Umberto Veronesi researcher "Ricercatori in classe: LA SCIENZA E LA RICERCA INCONTRANO I GIOVANI" IISS Carlo Urbani, Porto Sant'Elpidio, Italy. May 17, 2018
- Invited speaker "Le cellule staminali nella terapia oncologica" UniStem Day. Camerino, Italy. March 17, 2017
- Invited speaker "Le cellule staminali nella terapia oncologica" UniStem Day. Camerino, Italy. March 16, 2018

PUBLICATIONS

- Mechanosensation and Mechanotransduction in Natural Killer (NK) Cells. Santoni G, Amantini C, M Santoni, Maggi F, **Morelli MB**, Santoni A. Biomolecules - under revision
- Transient Receptor Potential (TRP) Channels in Haematological Malignancies: an update. Maggi F, **Morelli MB**, Nabissi M, Marinelli O, Zeppa L, Aguzzi C, Santoni G, Amantini C. Biomolecules 2021 Jun 11,765.
- Knock-down of mucolipin 1 channel promotes tumor progression and invasion in human glioblastoma cell lines. Santoni G, Amantini C, Nabissi M, Maggi F, Marinelli O, Eleuteri AM, Santoni, **Morelli MB**. Front. Oncol. 2021 Apr 19;11:578928.
- Exploring treatment with Ribociclib alone or in sequence/combination with Everolimus in ER+HER2-Rb wild-type and knock-down in breast cancer cell lines. Marinelli O, Romagnoli E, Maggi F, Nabissi M, Amantini C, **Morelli MB**, Santoni M, Battelli N, Santoni G. BMC Cancer. 2020 Nov 19;20(1):1119.
- Biological Function of PD-L2 and Correlation With Overall Survival in Type II Endometrial Cancer. Marinelli O, Annibali D, **Morelli MB**, Zeppa L, Tuyaerts S, Aguzzi C, Amantini C, Maggi F, Ferretti B, Santoni G, Amant F, Nabissi M. Front Oncol. 2020 Oct 28;10:538064.
- Cannabidiol and Oxygen-Ozone Combination Induce Cytotoxicity in Human Pancreatic Ductal Adenocarcinoma Cell Lines. Luongo M, Marinelli O, Zeppa L, Aguzzi C, **Morelli MB**, Amantini C, Frassinetti A, di Costanzo M, Fanelli A, Santoni G, Nabissi M. Cancers (Basel). 2020 Sep 27;12(10):2774.

PUBLICATIONS

- The effects of cannabidiol and prognostic role of TRPV2 in human endometrial cancer. Marinelli O, **Morelli MB**, Annibali D, Aguzzi C, Zeppa L, Tuyaerts S, Amantini C, Amant F, Ferretti B, Maggi F, Santoni G, Nabissi M. *Int J Mol Sci.* 2020 Jul 29;21(15):5409. *CoF.
- Involvement of the TRPML Mucolipin channels in Viral Infections and Anti-viral Innate Immune Responses. Santoni G, **Morelli MB**, Amantini C, Nabissi M, Santoni M, Santoni A. *Front Immunol.* 2020 Apr 29;11:739.
- Emerging Role of Mucolipins TRPML channels in Cancer. Santoni G, Santoni M, Maggi F, Marinelli O, **Morelli MB**. *Front Oncol.* 2020 Apr 28;10:659.
- Pathophysiological Role of Transient Receptor Potential Mucolipin Channel 1 in Calcium-mediated Stress-Induced Neurodegenerative Diseases. Santoni G, Maggi F, Amantini C, Marinelli, Nabissi M, **Morelli MB**. *Front Physiol.* 2020 Mar 24;11:251.
- Transient Receptor Potential Cation Channels in Cancer Therapy. Santoni G, Maggi F, **Morelli MB**, Santoni M, Marinelli O. *Med Sci (Basel).* 2019 Nov 30;7(12).
- The controversial role of PD-1 and its ligands in endometrial cancer and other gynaecological malignancies. Marinelli O, Annibali D, Aguzzi C, Tuyaerts S, Amant F, **Morelli MB**, Santoni G, Amantini C, Maggi F, Nabissi M. *Front Oncol.* 2019 Oct 15;9:1073.
- The TRPV2 Cation Ion Channels: from Urothelial Cancer Invasiveness to Glioblastoma Multiforme Interactome-Signature. Santoni G, Amantini C, Maggi F, Marinelli O, Santoni M, Nabissi M, **Morelli MB**. *Lab Invest.* 2020 Feb;100(2):186-198.
- Targeting Transient Receptor Potential Channels by MicroRNAs Drives Tumor Development and Progression. Santoni G, **Morelli MB**, Santoni M, Nabissi M, Marinelli O, Amantini C. *Adv Exp Med Biol.* 2020;1131:605-623.
- Calcium Signaling and the Regulation of Chemosensitivity in Cancer Cells: Role of the Transient Receptor Potential Channels. Santoni G, **Morelli MB**, Marinelli O, Nabissi M, Santoni M, Amantini C. *Calcium Adv Exp Med Biol.* 2020;1131:505-517.
- Expression profiling of circulating tumor cells in pancreatic ductal adenocarcinoma patients: biomarkers predicting overall survival. Amantini C, **Morelli MB**, Nabissi M, Piva F, Marinelli O, Maggi F, Bianchi F, Bittoni A, Berardi R, Giampieri R, Santoni G. *Front Oncol.* 2019 Sep 10;9:874.
- Transient Receptor Potential Mucolipin-1 Channels in Glioblastoma: Role in Patient's Survival. **Morelli MB**, Amantini C, Tomassoni D, Nabissi M, Arcella A, Santoni G. *Cancers (Basel).* 2019 Apr 12;11(4):525.

PUBLICATIONS

- Calcium Signalling and the Regulation of Chemosensitivity in Cancer Cells: Role of the Transient Receptor Potential Channels. Santoni G, **Morelli MB**, Marinelli O, Nabissi M, Santoni M, Amantini C. Book: Calcium signalling second edition 2019 Springer Nature Switzerland AG in press MD.SHAHIDUL ISLAM
- Targeting Transient Receptor Potential Channels by microRNAs drives tumor development and progression. Santoni G, **Morelli MB**, Santoni M, Nabissi M, Marinelli O, Amantini C. Book: Calcium signalling second edition 2019 Springer Nature Switzerland AG in press MD.SHAHIDUL ISLAM
- Role of the NMDA Receptor in the Antitumor Activity of Chiral 1,4-Dioxane Ligands in MCF-7 and SKBR3 Breast Cancer Cells. **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. ACS Med Chem Lett. 2019 Jan 28;10(4):511-516. *CoF.
- Chemical manipulations on the 1,4-dioxane ring of 5-HT(1A) receptor agonists lead to antagonists endowed with antitumor activity in prostate cancer cells. Del Bello F, Bonifazi A, Giorgioni G, Quaglia W, Amantini C, **Morelli MB**, Santoni G, Battiti FO, Vistoli G, Cilia A, Piergentili A. Eur J Med Chem. 2019 Apr 15;168:461-473.
- Isofuranodiene synergizes with Temozolomide in inducing glioma cells death. Brunetti A, Marinelli O, **Morelli MB**, Iannarelli R, Amantini C, Russotti D, Santoni G, Maggi F, Nabissi M. Phytomedicine, 2019 Jan;52:51-59.
- Urinary Markers in Bladder Cancer: An Update. Santoni G, **Morelli MB**, Amantini C, Battelli N. Front Oncol. 2018 Sep 7;8:362.
- Novel antitumor copper(II) complexes rationally designed to act through synergistic mechanisms of action, due to the presence of an NMDA receptor ligand and copper in the same chemical entity. **Morelli MB***, Amantini C, Santoni G, Pellei M, Santini C, Cimarelli C, Marcantoni E, Petrini M, Del Bello F, Giorgioni G, Piergentili A, Quaglia W. New J. Chem., 2018, 42, 11878 *CoF
- Thyme extract increases mucociliary-beating frequency in primary cell lines from chronic obstructive pulmonary disease patients. Nabissi M. Marinelli O, **Morelli MB**, Nicotra G, Innarelli R, Amantini C, Santoni G, Maggi F. Biomed Pharmacother. 2018 Sep;105:1248-1253.
- "Immuno-Transient Receptor Potential Ion Channels": The Role in Monocyte- and Macrophage-Mediated Inflammatory Responses. Santoni G, **Morelli MB**, Amantini C, Santoni M, Nabissi M, Marinelli O, Santoni A. Front Immunol. 2018 Jun 6;9:1273.
- Aniseed (*Pimpinella anisum L.*) essential oil reduces pro-inflammatory cytokines and stimulates mucus secretion in primary airway bronchial and tracheal epithelial cell lines. Iannarelli R, Marinelli O, **Morelli MB**, Santoni G, Amantini C, Nabissi M, Maggi F. Industrial Crops and Products. 2018 April;114:81-86.

PUBLICATIONS

- High CTLA-4 expression correlates with poor prognosis in thymoma patients. Santoni G, Amantini A, **Morelli MB**, Tomassoni D, Cardinali C, Santoni M, Marinelli O, Nabissi M, Paolucci V, Torniai M, Rinaldi S, Morgese F, Bernardini G, Berardi R. *Oncotarget*. 2018 Mar 30;9(24):16665-16677.
- ICOS-L as a Potential Therapeutic Target for Cancer Immunotherapy. Marinelli O, Nabissi M, **Morelli MB**, Torquati L, Amantini C, Santoni G. *Curr Protein Pept Sci*. 2018;19(11):1107-1113.
- Evidence of post-transcriptional readthrough regulation in FGF5 gene of alpaca. Pallotti S, Pediconi D, Subramanian D, Molina MG, Antonini M, **Morelli MB**, Renieri C, La Terza A. *Gene*. 2018 Mar 20;647:121-128.
- The TRPV1 ion channel regulates thymocyte differentiation by modulating autophagy and proteasome activity. Amantini C, Farfariello V, Cardinali C, **Morelli MB**, Marinelli O, Nabissi M, Santoni M, Bonfili L, Cecarini V, Eleuteri AM, Santoni G. *Oncotarget*. 2017 Oct 11;8(53):90766-90780.
- 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. **Morelli MB**, Amantini C, Nabissi M, Cardinali C, Santoni M, Bernardini G, Santoni A, Santoni G. *Oncotarget*. 2017 Jan 10;8(2):3380-3395.
- 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. Nabissi M, **Morelli MB**, Arcella A, Cardinali C, Santoni M, Bernardini G, Santoni A, Santoni G, Amantini C. *Oncotarget*. 2016 Dec 6;7(49):81541-81554.
- Cannabinoids synergize with carfilzomib, reducing multiple myeloma cells viability and migration. Nabissi M, **Morelli MB***, Offidani M, Amantini C, Gentili S, Soriani A, Cardinali C, Leoni P, Santoni G. *Oncotarget*. 2016 Nov 22;7(47):77543-77557. *CoF
- Evaluation of thyme extract effects in human normal bronchial and tracheal epithelial cell lines and in human lung cancer cell line. Marinelli O, Iannarelli R, **Morelli MB**, Valisi M, Nicotra G, Amantini C, Cardinali C, Santoni G, Maggi F, Nabissi M. *Chem Biol Interact*. 2016 Aug 25;256:125-33.
- Capsaicin triggers autophagic cell survival which drives epithelial mesenchymal transition and chemoresistance in bladder cancer cells in an Hedgehog-dependent manner. Amantini C, **Morelli MB**, Nabissi M, Cardinali C, Santoni M, Gismondi A, Santoni G. *Oncotarget*. 2016 Aug 2;7(31):50180-50194.
- Overexpression of Transient Receptor Potential Mucolipin-2 Ion Channels in Gliomas: role in Tumor Growth and Progression. **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. *Oncotarget*. 2016 Jul 12;7(28):43654-43668.

PUBLICATIONS

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ACADEMIC ROLE

- 2016-PRESENT** • Co-teacher in "Patologie da stress e dei disordini alimentari" (3 cfu, Scienze del Fitness e dei Prodotti della Salute, University of Camerino) and in "Fondamenti di patologia e citotossicologia" (3 cfu, Biologia della nutrizione, University of Camerino)
- 2015-PRESENT** • Teacher in Laboratory II (1 cfu, Biosciences and Biotechnology, University of Camerino)
- 2015-2016** • Seminar activities. "Nutritional Pathology Course", (2 cfu), in Stress Pathology Course (Scienze del Fitness e dei Prodotti della Salute, University of Camerino)
- 2013-PRESENT** • Co-tutor for Bachelor degree dissertations in Biosciences and Biotechnology, Biologia della Nutrizione and Scienze del Fitness e dei Prodotti della Salute.
- Co-tutor for Master degree dissertation in Biological Sciences.
 - Co-tutor for Laurea Specialistica dissertation in Farmacia.
- 2012-2013** • Co-tutor in the practical laboratory of the "Fondamenti di Patologia e Citotossicologia" for the Laboratory II course of the Bachelor's Degree in Biologia della Nutrizione at the University of Camerino
- 2012-PRESENT** • Co-tutor in the practical laboratory for Rotation Laboratory course of the Master Degree in Biological Sciences at the University of Camerino