

PERSONAL INFORMATION

Maria Beatrice Morelli

WORK EXPERIENCE

-
- 1/04/2018-present Post-doctoral research position
FONDAZIONE VERONESI – University of Camerino
Research project: “Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancer patients”
School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
- 15/01/2018-15/04/2018 Post-doctoral research position at the University of Camerino
Research project: “Valutazione di estratti fitoterapici nel metabolismo osseo”
School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
- 1/10/2017-31/12/2017 Post-doctoral research position
ISTITUTO PASTEUR ITALIA - FOND. CENCI BOLOGNETTI
Viale Regina Elena 291, 00161 Rome, Italy
- 1/10/2014- 30/09/2017 Post-doctoral research position at the Sapienza University for MED/04 disciplinary scientific field
Research project: “Molecular events regulating anti-cancer NK cell mediated stress surveillance response induced by chemotherapy”
Sapienza University of Rome, Department of Molecular Medicine. Viale Regina Elena 291, 00161 Rome, Italy
- 1/03/2014-30/09/2014 Post-doctoral research position at the University of Camerino for the CUN 06 disciplinary field and MED/04 disciplinary scientific field
Research project: “Molecular and functional profile of Transient Receptor Potential (TRP) channels in glioma”
University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
- 10/01/2011-31/12/2013 Post-doctoral research position
FIRC National Grant
Research project: “Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer.”
University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
- 02/04/2007-15/11/2007 Researcher
Grant from FILAS, Lazio Region
Research in human reproduction.
Sapienza University of Rome, Department of Anatomy, Histology, Forensic Medicine and Orthopedic, Section of Histology. Via A. Scarpa, 16, 00161 Rome, Italy
- 02/05/2007-31/08/2009 Researcher

Grant from Pio Sodalizio dei Piceni

Research project: "The expression of different vanilloid receptors (TRPVs) in human glioma cells: role of chemokine receptors in the sensibilization of TRPVs involved in the regulation of survival, growth and migration pathways of glioma cells."

University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy

EDUCATION AND TRAINING

- 2017-2023 Italian qualification (Abilitazione Scientifica Nazionale) as associate professor in the sector 05/F1 - BIOLOGIA APPLICATA
<https://asn16.cineca.it/pubblico/miur/esito/05%252FF1/2/2>
- 25-26/01/2016 Digital Droplet PCR Training Course- Bio-Rad Laboratories (Letizia Ciccone)
- 01/11/2007-31/10/2010 PhD in Immunological Sciences (14-03-2011)
Sapienza University of Rome, Department of Molecular Medicine. Viale Regina Elena 291, 00161 Rome, Italy
University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
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 Biologist qualification exam
- 20/10/2006 Degree in Medical, Molecular and Cellular Biotechnology
Sapienza University of Rome, Department of Histology and Medicine Embryology, Via A. Scarpa, 16, 00161 Rome, Italy
Tutor: Rita Canipari
Score: 110/110 cum laude
Research project: "Characterization, expression and functional activity of PACAP and its receptors in human granulosa-luteal cells."
The work has been carried out in collaboration with Technobios Procreazione, Bologna.
- 28/10/2004 Degree in Biotechnology
Sapienza University of Rome, Department of Histology and Medicine Embryology, Via A. Scarpa, 16, 00161 Rome, Italy
Tutor: Rita Canipari
Score: 110/110 cum laude
Research project: "PACAP and relative receptors in mouse ovary"
The work has been carried out in collaboration with Technobios Procreazione, Bologna.
- 2001 Classical Degree
Liceo Classico "A. Caro", Fermo (FM), Italy

PERSONAL SKILLS

Mother tongue	Italian
Other language	English
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. Skills in several techniques to analyze cell viability, proliferation, cell death, cell cycle, chemoresistance, autophagy and senescence (MTT, SRB assay, BrdU incorporation assay, Cell Cycle, PI/ Annexin-V, DNA Ladder), ROS assay, Calcein assay, Ca ²⁺ influx; flow cytometry, confocal microscope, Elisa, Western Blot, immunocytochemistry, immunohistochemistry; Real Time PCR, Droplet Digital PCR, cloning, gene silencing, DNA transfection, mutagenesis. Models: cancer and normal cell lines, stem cells, biopsies, bone marrow aspirated, peripheral blood to isolate single cancer cells. Excellent knowledge of data analysis programs and statistical analysis tools (CellQuest, Cyflogic, WinMDI, FlowJo, GraphPad, MedCalc).
Computer skills	Excellent knowledge of operating systems (Windows, MacOS), biological databases (cBioPortal, GenomeNet) and bioinformatics tools (Graphpad Prism software, MatLab).

ADDITIONAL INFORMATION

APPLICANT OF FUNDENT PROJECTS

2018-2020	Post-doctoral fellowship FONDAZIONE VERONESI – University of Camerino Research project: “Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancer patients”
2015-2017	Principal Investigator for the project <i>The tyrosine-kinase inhibitor axitinib to overcome temozolomide resistance</i> (Progetti avvio alla ricerca anno 2015 – Sapienza University of Rome)
01/11/2013-01/01/2015	Principal investigator involved in research project financed by Pfizer company: <i>Therapy of renal tumors</i>
10/01/2011-31/12/2013	FIRC National Grant Research project: “Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer.” University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy
02/04/2007-15/11/2007	Grant from FILAS, Lazio Region Research in human reproduction. Sapienza University of Rome, Department of Anatomy, Histology, Forensic Medicine and Orthopedic, Section of Histology. Via A. Scarpa, 16, 00161 Rome, Italy

02/05/2007-31/08/2009

Grant from Pio Sodalizio dei Piceni

Research project: "The expression of different vanilloid receptors (TRPVs) in human glioma cells: role of chemokine receptors in the sensibilization of TRPVs involved in the regulation of survival, growth and migration pathways of glioma cells."

University of Camerino, School of Pharmacy. Via Madonna delle Carceri 9, 62032 Camerino (MC), Italy

PARTICIPATION IN RESEARCH PROJECTS

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|--------------|---|
| 2019-present | Participation in "Ossigeno ozonoterapia in combinazione con cannabidiolo e melatonina nell'adenocarcinoma duttale pancreatico umano"
University of Camerino (PI: prof. M.Nabissi) in collaboration with Fondazione Maria Guarino Amor Onlus (PI: dr.ssa Luongo Margherita). |
| 2019-present | Participation in "Ruolo Del CBD nel tumore all'endometrio; sperimentazione pre-clinica per sviluppo di nuove formulazioni e potenziali sviluppi di studi in vivo"
University of Camerino (PI: prof. M.Nabissi) in collaboration with ENECTA srl. |
| 2019-present | Participation in "Plant cannabinoids in regulating tumor-associated antigens in multiple myeloma"
University of Camerino (PI: prof. M.Nabissi) in collaboration with ENTOURAGE BIOSCIENCES |
| 2015- 2018 | Participation in AIRC 2014 project: <i>Circulating tumor cells and exosomes in human pancreatic cancer. The impact on prognosis and treatment strategy</i> |
| 2015-2018 | Cooperation to the project <i>CHEMICAL "SWISS TOOLS" TO TREAT TUMORS, METASTASES AND INFECTIONS</i> (FAR 2014-2015 – University of Camerino) |
| 2010-2013 | Participation in PRIN 2010-2011 project " <i>Le scienze omiche come strumento per la ricerca traslazionale in neurooncologia</i> " |

APPLICANT FOR PROJECT FUNDING

- 2019 SANOFI GENZYME
Identificazione di nuovi bersagli terapeutici in CTCs specializzate nella formazione di metastasi ossee da tumore prostatico – not funded
- 2018 AICR 2018
Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancers – not funded
- 2018 AIRC - MFAG 2018
Metastatic signature of circulating tumor cells: liquid biopsy for detection of tumorigenic potential in bladder cancers – not funded
- 2017 Roche per la ricerca
Small-cell lung cancer e canali Transient Receptor Potential: impatto clinico di biopsie liquide alla scoperta di nuovi target terapeutici – not funded
- 2017 AIRC - MFAG 2017
Small-cell lung cancer as a channelopathy? Transient Receptor Potential channels as new therapeutic targets – not funded
- 2017 Bayer AG - Grants4Targets
Small-cell lung cancer as a channelopathy? Transient Receptor Potential channels as new therapeutic targets – not funded
- 2015 PI for the project "The tyrosine-kinase inhibitor axitinib to overcome temozolomide resistance"
(Progetti avvio alla ricerca anno 2015 – Sapienza University of Rome)
Sapienza University of Rome, Department of Molecular Medicine in collaboration with University of Camerino
(from 01-08-2015 to 31-01-2017)
- 2014 Programma "SIR"
Calcium signaling networks in the regulation of neural stem cell and glioblastoma stem cell stemness - not funded

- Polytechnic University of Marche, Ancona, Department of Medical Oncology
- Ospedali Riuniti, Ancona, Clinical of Hematology
- Istituto Superiore di Sanità, Rome
- Istituto di Ricovero e Cura a Carattere Scientifico Istituto Neurologico Mediterraneo Neuromed, Pozzilli
- Sapienza University, Rome, Department of Molecular Medicine
- Sapienza University, Rome, Department of Histology and Medicine Embryology
- University of Perugia, Department of Urology and Andrology, Uro-andrology and Tissue Engineering Laboratory
- University of Parma, Pharmacological Biological Sciences and applied Chemistry
- University of Padova, Department of Pharmaceutical and Pharmacological Sciences
- University of Firenze, Department NEUROFARBA, Preclinical and Clinical Pharmacology
- IENI-CNR (National Research Council), Padova
- Technobios Procreazione, Bologna
- EPO s.r.l.
- FiberPasta
- Sakura s.r.l.
- Sinbiotech s.r.l.
- Pfizer Italia s.r.l.
- Fondazione Maria Guarino Amor Onlus

INTERNATIONAL SCIENTIFIC COLLABORATION

- Univ. Lille, France, INSERM U1003 – PHYCELL – Physiologie Cellulaire
- Karolinska Institutet, Sweden, Department of Clinical Sciences and Education
- European Synchrotron Radiation Facility of Grenoble
- National Institute on Drug Abuse (NIDA/NIH) of Baltimore, Maryland, US

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
- 2011-2016 *Culture della materia* at the University of Camerino in "Patologia della nutrizione, Advanced food pathology, Molecular pathology, Immunology, Farmacia, Chimica e Tecnologia Farmaceutiche, Informazione Scientifica sul Farmaco and Scienze e Tecnologie del Fitness e dei Prodotti della Salute" Courses.

PROFESSIONAL
MEMBERSHIPS

2017-present

Member, Società Italiana Cancerologia
Member, EACR

EDITORIAL BOARD MEMBER

Journal of Urology and Renal Diseases
Clinics Oncology

GUEST EDITOR

International Journal of Molecular Sciences, Special Issue "Intracellular Calcium Levels and Cell Fate in Cancer: Interplay Between Senescence, Autophagy and Apoptosis"

REVIEWER FOR
INTERNATIONAL JOURNAL

- 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

SCIENTIFIC INTERESTS

My research regards mainly the oncologic field. In particular, it focuses on the role of Transient Receptor Potential channels in cancer progression and on the role of tyrosine kinase inhibitors as new therapeutic strategy for cancer treatment.

Brain Cancer

- Role of Transient Receptor Potential Vanilloid (TRPV) receptors in human glioma. This research is focused on the role of TRPV channels in regulating viability, chemoresistance and differentiation in different human cell lines and tissues. The models used in this research are: human glioma U87MG, T98 and U251 cell lines, glioma cancer stem cells, glioma biopsies.
- Role of cannabidiol as TRPV2 agonist in regulating human glioma cell viability and chemosensitivity to standard therapy.
- Effects of the tyrosine kinase inhibitor axitinib on human glioma cell viability
- Role of mucolipin-2 (TRPML-2) channel in human glioma cell viability. The models used in this research are: U87MG, T98 and U251 cell lines, glioma biopsies, normal brain, normal astrocyte, neural stem/progenitor cells.
- Role of mucolipin-1 (TRPML-1) channel in the autophagic pathway. The models used in this research are: U87MG, T98 and U251 cell lines.

Bladder Cancer

- Role of TRPV channels and their ligands in regulating cell viability and cell death in human bladder cancer cells. In this project the human models used are: bladder cancer cells (RT4, J82, 5637, T24), biopsies.
- The mechanisms responsible of the tyrosine kinase inhibitors (sorafenib, sunitinib and pazopanib) anti-tumor effects in human bladder cancer cell lines (5637, J82, T24).
- Role of autophagic pathway activation after Capsaicin treatment and the induction of epithelial-mesenchymal transition in T24 and 5637 bladder cancer cell lines.
- Potential detection of a specific metastatic gene expression associated with high ability in bladder cancer patient-derived circulating tumor cells.

Renal cell carcinoma

- Effects of the tyrosine kinase inhibitor axitinib used as first line therapy or as second line in a sequential therapy after sunitinib treatment in human renal carcinoma cell lines (A-498 and Caki-2).
- The ability of sunitinib and axitinib to modulate the DNAM-1 and NKG2D ligands to study an hypothetical immunosurveillance mechanism toward treated cancer cells.

Multiple Myeloma

- Expression of TRPV2 channels in CD138+ plasma cells isolated from primary diagnosed patients with multiple myeloma.
- Role of TRPV2 activation by cannabidiol on multiple myeloma cell lines (RPMI8226 and U266).
- The effect of cannabidiol treatment alone and in combination with bortezomib on multiple myeloma cell lines.
- The effect of THC and cannabidiol in combination with the novel proteasome inhibitor on multiple myeloma cell lines.

Prostate Cancer

- Expression of adrenergic receptor type A (ADRA) and the role of their synthetic antagonists in inducing cell death in human prostate cancer cell (PC3).
- Cross-talk between α_{1D} -AR and TRPV1 receptors and the role in controlling the NA-induced proliferation of prostate cancer cells.

Breast cancer

- Role of N-Methyl-d-aspartate (NMDA) Receptor Antagonists on breast cancer cells. In this project the human models used are: MCF-7 and SKBR3 cell lines.

Lung

- Effect of thyme extract in human normal bronchial and tracheal epithelial cell lines and in human H460 lung cancer cell line

Ovary

- Characterize the PACAP/VIP/receptor system in the mouse ovary.
- Expression of PACAP and PACAP/VIP receptors in human granulosa-luteal cells obtained from consenting *in vitro* fertilization patients attending a private fertility clinic and assessed a possible anti-apoptotic effect of these molecules. Research in collaboration with Technobios Procreazione (Bologna).
- Effects of recombinant LH administration, during late follicular development stages, in recombinant FSH stimulated cycles on follicular fluid parameters and on cumulus cell quality.

Pancreatic cancer

- Identify the differences in terms of circulating tumor cells (CTCs) and gene expression profile among patients with different clinical outcome of pancreatic ductal adenocarcinoma. CTCs could be potential biomarkers useful to define new treatment strategies.

ABSTRACT AND CONGRESS
PARTECIPATION

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

Invited speaker "Le cellule staminali nella terapia oncologica" UniStem Day. Camerino, Italy. March 16, 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-TRANSCRIPTIONAL READTHROUGH REGULATION IN SKIN BIOPSIES. 7th European Symposium on South American Camelids and 3rd European Meeting on Animal Fibers. Assisi, June 12-14, 2017

Invited speaker "Le cellule staminali nella terapia oncologica" UniStem Day. Camerino, Italy. March 17, 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 Myeloma. 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, Bonfilii 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, Bonfilii 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, Mamma 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 Chemoresistance of Human U87 Glioma Cells. 48th Annual Meeting of the American Society for Cell Biology. San Francisco, CA. December 13-19, 2008

PUBLICATIONS

1. The controversial role of PD-1 and its ligands in endometrial cancer and other gynaecological malignancies

Nabissi M, Marinelli O, Annibaldi D, Aguzzi C, Tuybaerts S, Amant F, **Morelli MB**, Santoni G, Amantini C, Maggi

Frontiers in Oncology *Under review*

2. The TRPV2 Cation Ion Channels: from Urothelial Cancer Invasiveness to Glioblastoma Multifactorial Interactome-Signature

Santoni G, Amantini C, Maggi F, Marinelli O, Santoni M, Nabissi M, **Morelli MB**

Laboratory Investigation *Under review*

3. 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.

Frontiers in Oncology Manuscript ID: 478020 *Accepted*

4. 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 2019, 11(4), 525. <https://doi.org/10.3390/cancers11040525> *FA

5. 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*

6. 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*

7. 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, Wunsch 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.

Accepted Jan 28, 2019 in ACS Medicinal Chemistry Letters. *CoF. Q1

8. 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.

9. 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. Q1

10. Urinary Markers in Bladder Cancer: An Update.

Santoni G, **Morelli MB**, Amantini C, Battelli N.

Front Oncol. 2018 Sep 7;8:362. Q1

11. 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, Petri M, Del Bello F, Giorgioni G, Piergentili A, Quaglia W.

New J. Chem., 2018, 42, 11878 *CoF

12. Thyme extract increases mucociliary-beating frequency in primary cell lines from chronic obstructive pulmonary disease patients.

Nabissi M, Marinelli O, **Morelli MB**, Nicotra G, Iannarelli R, Amantini C, Santoni G, Maggi F.

Biomed Pharmacother. 2018 Sep;105:1248-1253. Q1

13. "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. Q1

14. 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.

15. 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. Q1

16. 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. Q2

17. Evidence of post-transcriptional readthrough regulation in FGF5 gene of alpaca.
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