

## **Consuelo Amantini**

**ORCID:** 0000-0001-8711-9941

**H-index:** 27 (Scopus)

**Total Citations:** 4951 (Scopus)

**Scientific publications:** 85

**Book Chapters:** 7

### **Abilitazione Scientifica Nazionale in:**

BANDO D.D. 1532/2016: 06/A2 Patologia Generale e Patologia Clinica, Fascia II

Bando 2013 (DD n.161/2013): 06/N1 Scienze delle Professioni Sanitarie e delle Tecnologie Mediche Applicate, Fascia II

## **ISTRUZIONE E FORMAZIONE**

-1999 Laurea in Scienze Biologiche con indirizzo Fisiopatologico conseguita presso l'Università di Camerino con la votazione di 110/110 e lode discutendo una tesi sperimentale in Patologia Generale dal titolo "Ruolo dei recettori integrinici  $\alpha\beta3$  ed  $\alpha\beta5$  nell'adesione della *Candida albicans* alle cellule endoteliali umane".

-1999-2004 Dottorato XV° ciclo in "Neurofisiologia: basi neurali di funzioni cognitive superiori" di durata quadriennale dell'Università di Roma "Sapienza". Conseguimento del titolo di Dottore di Ricerca presentando una dissertazione finale dal titolo: "Espressione e funzione del recettore vanilloide VR1 nei timociti: ruolo nella morte per apoptosi".

-Settembre 2000 1<sup>st</sup> European School of Neuroimmunology (ESNI COURSE), Stoccolma.

-Giugno 2001 2<sup>nd</sup> European School of Neuroimmunology (ESNI COURSE), Parigi.

-2001 Esame di Stato ed abilitazione alla Professione di Biologo.

-2001 Partecipazione al Corso teorico-pratico "GeneAmp 5700", Applera Italia, Monza.

-2003 Acquisizione del titolo di cultore della materia per le discipline Patologia generale e Immunologia presso l'Università di Camerino.

-2004 Vincitrice della procedura comparativa per la copertura di un posto da ricercatore a tempo determinato nel settore scientifico disciplinare MED/04-Patologia Generale-presso la Facoltà di Scienze e Tecnologie, Università di Camerino.

## **ESPERIENZA SCIENTIFICA**

1999-2003 Dottoranda nel laboratorio di Neurofisiologia, Prof. Fabrizio Eusebi, presso il Dipartimento di Fisiologia Umana e Farmacologia, dell'Università di Roma "Sapienza" in collaborazione con il laboratorio di Immunologia ed Immunopatologia, Prof. Giorgio Santoni, Dipartimento di Scienze Farmacologiche e Medicina Sperimentale dell'Università di Camerino.

2004-2010 Ricercatore a tempo determinato (MED/04) presso la Facoltà di Scienze e Tecnologie, Università di Camerino.

Maggio-Nov 2010 Borsa di studio in “Autofagia e ontogenesi timica”, Scuola di Scienze del Farmaco e dei prodotti della Salute, Università di Camerino.

Dicembre 2010-2013 Ricercatore Universitario in Patologia Generale, Area Scientifica 06/A2- Patologia Generale e Patologia Clinica, SSD MED/04, Scuola di Scienze del Farmaco e dei Prodotti della Salute, Università di Camerino.

Novembre 2013-oggi Ricercatore Universitario Area Scientifica 06/A2 Patologia Generale e Patologia Clinica Scuola di Bioscienze e Medicina Veterinaria, Università di Camerino.

**MEMBRO EDITORIAL BOARD** della rivista Analytical Cellular Pathology dal 2014

### **GUEST EDITOR**

-for the special issue: “Ion Channels and Transporters in Human Disorders and New Strategies of Treatment (ICTHD)” Journal: BioMed Research International.

-for the special issue: “Intracellular Calcium Levels and Cell Fate in Cancer: Interplay Between Senescence, Autophagy and Apoptosis” Journal: International Journal of Molecular Sciences.

-for the special issue: “Transient Receptor Potential (TRP) Channels: Markers and Therapeutic Targets for Cancer?” Journal: Biomolecules.

**REVIEWER nelle seguenti riviste** Cell Death and Differentiation, Oncotarget, Theranostics, Journal of Neurochemistry, Chemical-Biological Interactions, The European Journal of Pharmacology, Biomedicine & Pharmacotherapy, Frontiers in Oncology, Autophagy.

**REVIEWER** di un progetto di ricerca per la fondazione GIF “German-Israeli Foundation for Scientific research and development”.

**REVIEWER ESTERNO** per il “Dottorato in Medicina Sperimentale”, coordinatore Prof. Maurizio Sorice, “Sapienza” Università di Roma.

### **IMPEGNI ISTITUZIONALI**

- 1) Membro della Giunta per la Scuola di Bioscienze e Medicina Veterinaria, DECRETO n. 130/2020
- 2) Responsabile del Polo di Bioscienze, DECRETO n. 129/2020, Università di Camerino.
- 3) Responsabile Tutorato per le classi di Laurea L-2, L-13, LM-6
- 4) Membro della commissione di riesame per le classi di Laurea L-2, L-13
- 5) Membro del collegio dei docenti della Scuola di Dottorato School of Advanced Studies, Area: “Life and Health Sciences” dell’Università di Camerino.
- 6) Docente Guida nella Scuola di Studi Superiori Carlo Urbani, Università di Camerino.

### **ORIENTAMENTO**

1) Docente responsabile del modulo “Oncologia Sperimentale” in Stage in Unicam e Alternanza Scuola-Lavoro.

2) Partecipazione a Porte Aperte Unicam

**DIDATTICA (erogata in lingua italiana e inglese):**

**Media della valutazione fatta dagli studenti nelle domande riguardanti il docente da quando è stato inserito il questionario alla didattica con punteggio da 1 a 4: 3.68**

2001 Docente al Corso di Perfezionamento accreditato E.C.M. “**Nuove Frontiere della Terapia Geniche delle Cellule Staminali**”.

2002 Responsabile delle esercitazioni pratiche di Immunologia negli insegnamenti di Immunologia ed Immunologia con laboratorio assegnati al Prof. Giorgio Santoni, dei corsi di Laurea in Biologia, Biologia Applicata e Biotecnologie.

2003-2008 Responsabile delle esercitazioni pratiche di “**Tossicologia ed Analisi Tossicologiche II**” del corso di Laurea in Tossicologia del Farmaco, degli Alimenti e dell’Ambiente.

2002-2004 Responsabile FAD del modulo di insegnamento “**Controllo sulla presenza di OGM**” nell’ambito del Master di I° livello, Operatore del Settore Alimentare, Sede di San Benedetto.

2004-2005 Docente del modulo “**Controllo sulla presenza di OGM**” al Corso IFTS: Istruzione e Formazione Tecnica Superiore, Porto S. Elpidio.

2004-2005 Docente presso l'Università di Camerino in:  
-**Genetica Applicata**, corso di Laurea in Biologia della Nutrizione.  
-**Immunologia**, corso di Laurea in Biotecnologie.

2005-2007 Docente presso l'Università di Camerino in:  
-**Sviluppo Immunità e Microbiologia**, corso di Laurea in Biologia.  
-**Genetica Applicata**, corso di Laurea in Biologia della Nutrizione.  
-**Immunologia**, corso di Laurea in Biotecnologie.  
-**Patologia generale con aspetti molecolari**, corso di Laurea Magistrale in Scienze Biomolecolari e Biofunzionali.  
-**Immunologia**, Scuola di Specializzazione in Farmacia Ospedaliera.

2006 Docente al **corso di perfezionamento accreditato E.C.M.** organizzato da Zona territoriale N.13 Ascoli Piceno.

2006-2007 Docente presso l'Università di Camerino in:  
-**Sviluppo Immunità e Microbiologia**, corso di Laurea in Biologia.  
-**Genetica Applicata**, corso di Laurea in Biologia della Nutrizione.  
-**Immunology**, corso di Laurea in Biotecnologie.  
-**Patologia generale con aspetti molecolari**, corso di Laurea Magistrale in Scienze Biomolecolari e Biofunzionali.  
- **Immunologia**, Scuola di Specializzazione in Farmacia Ospedaliera.

2007-2008 Docente presso l'Università di Camerino in:  
-**Immunology**, corso di Laurea in Biotecnologie.  
-**Patologia generale con aspetti molecolari**, corso di Laurea Magistrale in Scienze Biomolecolari e Biofunzionali.  
-**Microbiologia e Immunità**, corso di Laurea in Biologia.

2008-2009 Docente presso l'Università di Camerino in:  
-**Immunology**, corso di Laurea in Biotecnologie.  
-**Patologia generale con aspetti molecolari**, corso di Laurea Magistrale in Scienze Biomolecolari e Biofunzionali.  
-**Microbiologia e Immunità**, corso di Laurea in Biologia.

2009-2010 Docente presso l'Università di Camerino in:

- Immunology**, corso di Laurea in Biotecnologie.
- Advanced molecular pathology and oncology**, corso di Laurea in Biological Sciences.
- Microbiologia e Immunità**, corso di Laurea in Biologia.

2010-2011 Docente presso l'Università di Camerino in:

- Advanced molecular pathology and oncology**, corso di Laurea in Biological Sciences.
- Immunity and Parasitology**, corso di Laurea in Biosciences and Biotechnology.
- Patologie da stress e disordini alimentari**, corso di Laurea in Informazione Scientifica sul Farmaco e sui prodotti della Salute.

2011-2012 Docente presso l'Università di Camerino in:

- Immunity and Parasitology**, corso di Laurea in Biosciences and Biotechnology.
- Patologie da stress e disordini alimentari**, corso di Laurea in Informazione Scientifica sul Farmaco e sui prodotti della Salute.

2012-2013 Docente presso l'Università di Camerino in:

- Fundamentals of Pathology**, corso di Laurea in Biosciences and Biotechnology.
- Patologie da stress e disordini alimentari**, corso di Laurea in Informazione Scientifica sul Farmaco e sui prodotti della Salute.

2013-2016 Docente presso l'Università di Camerino in:

- Fundamentals of Pathology**, corso di Laurea in Biosciences and Biotechnology.
- Advanced food pathology**, corso di Laurea in Biological Science

2017- ad oggi Docente presso l'Università di Camerino in:

- 1)**Fundamentals of Pathology** per il corso di laurea in Biosciences and Biotechnology
- 2)**Food Pathology** per la Laurea Magistrale in Biological Sciences
- 3)**Fondamenti di Patologia** per il corso di Laurea in Biologia della Nutrizione

dal 2011 ad oggi **Rotation Laboratory** per il corso di Laurea in Biological Sciences  
(186 CFU svolti per il Rotation)

**SUPERVISOR di oltre 90 tesi/elaborati nei seguenti corsi di Laurea:**

- CdS:LBI BIOTECNOLOGIE
- CdS:SBB SCIENZE BIOMOLECOLARI E BIOFUNZIONALI
- CdS:LSB BIOLOGIA
- CdS:LM-BS BIOLOGICAL SCIENCES
- CdS:LFA FARMACIA
- CdS:LFP SCIENZE E TECNOLOGIE DEL FITNESS E DEI PRODOTTI DELLA SALUTE
- CdS:L-ISP INFORMAZIONE SCIENTIFICA SUL FARMACO E SUI PRODOTTI DELLA SALUTE
- CdS:L-BB BIOSCIENCES AND BIOTECHNOLOGY
- CdS:L-BN BIOLOGIA DELLA NUTRIZIONE

**SUPERVISOR di tesi di Dottorato presso Sapienza, Università di Roma**

**PRINCIPALI INTERESSI SCIENTIFICI**

- Ruolo dei recettori Transient Receptor Potential Vanilloid (TRPV) nei tumori come leucemie, glioma, nel tumore alla vescica e alla prostata.
- Studio dei pathways e dei fattori di trascrizione implicati nei processi di autofagia, mitofagia, senescenza, apoptosi, staminalità, coinvolti nella progressione e nella chemio-resistenza nei tumori.
- Autofagia nel processo di maturazione timocitaria: ruolo del recettore TRPV1.
- Meccanismi di azione di farmaci anti-tumorali nel tumore alla vescica, carcinoma renale, mieloma, tumore al seno, glioma e tumore prostatico: autofagia, apoptosi, parapoptosi, necrosi, senescenza e catastrofe mitotica.

## **PARTECIPAZIONE A PROGETTI FINANZIATI**

-PRIN 2007: “Apoptosi ed autofagia: interazione reciproca tra segnali di sopravvivenza e morte cellulare in timociti trattati con vanilloidi” in collaborazione con i gruppi di ricerca diretti da Prof. Maurizio Sorice (Sapienza Università di Roma), Prof. Francesco Cecconi (Università di Tor Vergata) e Prof. Guido Valesini (Sapienza Università di Roma).

-PRIN 2009: “Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer. New therapeutic perspectives to improve clinical outcome” in collaborazione con il gruppo di ricerca diretto dalla Prof. Antonella Giannantoni (Università di Perugia).

- AIRC 2014: “Circulating tumor cells and exosomes in human pancreatic cancer. The impact on prognosis and treatment strategy” Progetto IG 2014 Id.15821 in collaborazione con il gruppo di ricerca diretto dal Prof. Stefano Cascinu e da Riccardo Giampieri (Università Politecnica delle Marche).

-Finanziamento dalla ditta farmaceutica Pfizer: “Terapia dei tumori renali”.

-Finanziamento Annuale Individuale di base (FINANZIAMENTO DELLE ATTIVITÀ BASE DI RICERCA, DI CUI ALL'ART. 1, COMMI 295 E SEGUENTI, DELLA LEGGE 11 DICEMBRE 2016 N. 232): Ammessa con punteggio della produzione scientifica: 74

- Bando FAR 2014-2015 (Università di Camerino): “Obesity-related nervous system injury: treatment strategies linked to pathophysiology” in collaborazione con il Prof. Roberto de Giorgio (Università di Bologna) e la Prof.ssa Nora Klöting (Universität Leipzig Germany).

-PRIN 2017: RADIUS, “Role of Autophagy and mitophagy in cellular Differentiation: Unveiling molecular regulations and novel biomedical Strategies” in collaborazione con il Prof. Cecconi, Università degli studi di Roma “Tor Vergata”, Dott.ssa Giacomello, Università di Padova, Prof.ssa Baldari, Università degli studi di Siena, Prof. Sorice Maurizio, Università di Roma “La Sapienza”.

**Responsabile Unità.**

-Bando FAR 2018 (Università di Camerino):” SNORE: Effect of sleep restriction on alcohol abuse and related comorbidities in adolescent rats. How endocannabinoid and  $\sigma$  receptor systems are involved in? **Responsabile Unità.**

## **PARTECIPAZIONE COME RELATORE**

Relatore su invito al 5° Workshop Italiano di PCR Quantitativa. Titolo del seminario tenuto: “Neonatal capsaicin treatment modulates SP, NK-1R and VR1 expression on rat thymocytes”.

Relatore al corso accreditato dalla Regione Marche presso ASUR13 su: "Regolazione dell'espressione genica di canali ionici in cellule tumorali"

Relatore su invito al Centro di Scienze dell'Invecchiamento Ce.S.I. Titolo del seminario: Crosstalk tra il recettore vanilloide TRPV1 e CD95/Fas in cellule di carcinoma uroteliale.

Relatore al 36° Congresso della Società Italiana di Urodinamica. Titolo del seminario: "OnabotulinumtoxinA intradetrusorial injections modulates bladder expression of NGF, TrkA, p75 and TRPV1 in patients with detrusor overactivity"

## **PUBBLICAZIONI** (Quartile secondo Shimango Journal and country rank 2017)

Marinelli O, Romagnoli E, Maggi F, Nabissi M, **Amantini C**, Morelli MB, Santoni M, Battelli N, Santoni G. Exploring treatment with Ribociclib alone or in sequence/combo with Everolimus in ER+HER2-Rb wild-type and knock-down in breast cancer cell lines. *BMC Cancer*. 2020;20(1):1119.

**Q2**

Marinelli O, Annibali D, Morelli MB, Zeppa L, Tuyraerts S, Aguzzi C, **Amantini C**, Maggi F, Ferretti B, Santoni G, Amant F, Nabissi M. Biological Function of PD-L2 and Correlation With Overall Survival in Type II Endometrial Cancer. *Front Oncol*. 2020;10:538064.

**Q1**

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;12(10):2774.

**Q1**

Marinelli O, Morelli MB, Annibali D, Aguzzi C, Zeppa L, Tuyraerts 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;21(15):5409.

**Q1**

Santoni G, Morelli MB, **Amantini C**, Nabissi M, Santoni M, Santoni A. Involvement of the TRPML Mucolipin Channels in Viral Infections and Anti-viral Innate Immune Responses. *Front Immunol*. 2020;11:739.

**Q1**

Martinelli I, Micioni Di Bonaventura MV, Moruzzi M, **Amantini C**, Maggi F, Gabrielli MG, Fruganti A, Marchegiani A, Dini F, Marini C, Polidori C, Lupidi G, Amenta F, Tayebati SK, Cifani C, Tomassoni D. Effects of Prunus cerasus L. Seeds and Juice on Liver Steatosis in an Animal Model of Diet-Induced Obesity. *Nutrients*. 2020;12(5):E1308

**Q1**

Santoni G, Maggi F, **Amantini C**, Marinelli O, Nabissi M, Morelli MB. Pathophysiological Role of Transient Receptor Potential Mucolipin Channel 1 in Calcium-Mediated Stress-Induced Neurodegenerative Diseases. *Front Physiol*. 2020;11:251.

**Q2**

Marinelli O, Annibali D, Aguzzi C, Tuyaeerts S, Amant F, Morelli MB, Santoni G, **Amantini C**, Maggi F, Nabissi M. The Controversial Role of PD-1 and Its Ligands in Gynecological Malignancies. *Front Oncol.* 2019;9:1073.

**Q1**

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.* 2020;100(2):186-198.

**Q1**

Santoni G, Morelli MB, Santoni M, Nabissi M, Marinelli O, **Amantini C**. Targeting Transient Receptor Potential Channels by MicroRNAs Drives Tumor Development and Progression.

**Q2**

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.

**Q2**

Cecarini V, Cuccioloni M, Bonfili L, Ricciutelli M, Valzano M, Cappelli A, **Amantini C**, Favia G, Eleuteri AM, Angeletti M, Ricci I. Identification of a Killer Toxin from *Wickerhamomyces anomalus* with  $\beta$ -Glucanase Activity. *Toxins (Basel).* 2019;11(10):568.

**Q1**

**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; 9:874

**Q1**

Cappelli A, Valzano M, Cecarini V, Bozic J, Rossi P, Mensah P, **Amantini C**, Favia G, Ricci I. Killer yeasts exert anti-plasmodial activities against the malaria parasite *Plasmodium berghei* in the vector mosquito *Anopheles stephensi* and in mice. *Parasit Vectors.* 2019;12(1):329.

**Q1**

Giampieri R, Piva F, Occhipinti G, Bittoni A, Righetti A, Pagliaretta S, Murrone A, Bianchi F, **Amantini C**, Giulietti M, Ricci G, Principato G, Santoni G, Berardi R, Cascinu S. Clinical impact of different exosomes' protein expression in pancreatic ductal carcinoma patients treated with standard first line palliative chemotherapy. *PLoS One.* 2019;14(5):e0215990.

**Q1**

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;11(4):525.

**Q1**

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. 2019;10(4):511-516. *ACS Medicinal Chemistry Letters.*

**\*equally contribution.**

**Q1**

Santoni G, **Amantini C**. The Transient Receptor Potential Vanilloid Type-2(TRPV2) Ion Channels in Neurogenesis and Gliomagenesis: Cross-Talk between Transcription Factors and Signaling Molecules. *Cancers (Basel)*. 2019;11(3):322

**Q1**

Del Bello F, Bonifazi A, Giorgioni G, Quaglia W, **Amantini C**, Morelli MB, Santoni G, Battiti FO, Vistoli G, Cilia A, Piergentili A. Chemical manipulations on the 1,4-dioxane ring of 5-HT<sub>1A</sub> receptor agonists lead to antagonists endowed with antitumor activity in prostate cancer cells. *Eur J Med Chem*. 2019; 168:461-473.

**Q1**

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;52:51-59.

**Q1**

Santoni G, Morelli MB, **Amantini C**, Battelli N. Urinary Markers in Bladder Cancer: An Update. *Front Oncol*. 2018;8:362.

**Q1**

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;105:1248-1253.

**Q1**

Santoni G, Morelli MB, **Amantini C**, Santoni M, Nabissi M, Marinelli O, Santoni A. "Immuno-Transient Receptor Potential Ion Channels": The Role in Monocyte- and Macrophage-Mediated Inflammatory Responses. *Front Immunol*. 2018 Jun 6;9:1273.

**Q1**

Marinelli O, Nabissi M, Morelli MB, Torquati L, **Amantini C**, Santoni G. ICOS-L as a Potential Therapeutic Target for Cancer Immunotherapy. *Curr Protein Pept Sci*. 2018;19(11):1107-1113.

**Q2**

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.

**Q1**

**Amantini C**, Farfariello V, Cardinali C, Morelli MB, Marinelli O, Nabissi M, Santoni M, Bonfili L, Cecarini V, Eleuteri AM, Santoni G. The TRPV1 ion channel regulates thymocyte differentiation by modulating autophagy and proteasome activity. *Oncotarget*. 2017;8(53):90766-90780.

**Q1**

Morelli MB, **Amantini C**, Nabissi M, Cardinali C, Santoni M, Bernardini G, Santoni A, Santoni G. 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*. 2017;8(2):3380-3395.

**Q1**



Nabissi M, Morelli MB, Arcella A, Cardinali C, Santoni M, Bernardini G, Santoni A, Santoni G, **Amantini C**. 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;7(49):81541-81554.

**Q1**

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;7(47):77543-77557.

**Q1**

**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;7(31):50180-50194.

**Q1**

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;7:43654-43668.

**Q1**

Klionsky DJ.....**Amantini C**.....et al. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*. 2016;12:1-222.

**Q1**

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;6:36245-36259.

**Q1**

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  $\sigma 1$  Receptor Ligands Based on Properly Substituted 1,4-Dioxane Ring. *J Med Chem*. 2015;58:8601-8615.

**Q1**

**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;2:395-409.

**Q2**

Nabissi M, 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;137:1855-1869.

## Q1

Santoni G, Cardinali C, Morelli MB, Santoni M, Nabissi M, **Amantini C**. Danger- and Pathogen-associated molecular patterns recognition by Pattern-Recognition Receptors and Ion Channels of Transient Receptor Potential Family triggers the inflammasome activation in immune cells and sensory neurons Neuroinflammation; 2015;12:21.

## Q1

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. **\*equal contribution.**

## Q1

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.

## Q1

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## **COMPETENZE E TECNICHE**

Madrelingua: Italiana

Altra lingua: Inglese

-Colture Cellulari: colture primarie, cellule staminali e linee cellulari

-PCR qualitativa e quantitativa

-DROPLET PCR

-Immunoprecipitazione

-Western Blot

-Elettroforesi

-Immunofluorescenza

-Citofluorimetria

-Microscopio confocale

-Immunoistochimica

-ELISA

- Test di vitalità cellulare: Sulforodamina B e MTT
- Test di proliferazione e di citotossicità
- Test di Invasione cellulare
- Analisi del calcio libero citoplasmatico
- Test per valutare la morte cellulare: Annexin-V/PI, produzione di ROS, DNA ladder, potenziale transmembrana mitocondriale.
- Analisi del ciclo cellulare
- Trasfezione transiente
- Silenziamento genico
- Impiego di animali nella sperimentazione
- Isolamento di CTC (Circulating Tumoral Cell) da biopsia liquida

Camerino, Dicembre 23, 2020

Consuelo Amantini