



Oliviero Marinelli

Post-Doc in Medical Sciences

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SUMMARY

PhD in Molecular Biology and Cellular Biotechnology with expertise in cellular and molecular biology, immuno-oncology and phytomedicine

CAREER

JULY 2020 - PRESENT

University of
Camerino

POST-DOC IN MEDICAL SCIENCES

- Study of the potential inflammatory and immunological effects of hemp extracts in human keratinocytes and dermal fibroblasts cell lines.
- Technical Sciences in Laboratory Medicine (MED/46)

OCTOBER 2019 - PRESENT

University of
Camerino

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by BANDO DI COOPERAZIONE SCIENTIFICA CON UNIVERSITÀ O ISTITUZIONI DI RICERCA DELLA REPUBBLICA POPOLARE CINESE

FEBRUARY 2019 - PRESENT

University of
Camerino

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by Fondazione Maria Guarino Amor Onlus

FEBRUARY 2019 - PRESENT

University of
Camerino

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by ENTOURAGE BIOSCIENCES

DECEMBER 2018 - PRESENT

University of
Camerino

PARTECIPANT TO SCIENTIFIC PROJECT

- Granted by FAR UNICAM 2018

DECEMBER 2019 - JUNE 2020

University of
Camerino

FELLOWSHIP IN MEDICAL SCIENCES

- Evaluation of Cannabidiol cytotoxic effects in primary human endometrial cancer cell lines
- Technical Sciences in Laboratory Medicine (MED/46)

EDUCATION

DECEMBER 2016 - MARCH 2020 **PHD IN MOLECULAR BIOLOGY AND CELLULAR BIOTECHNOLOGY**

University of
Camerino

- PhD Thesis title: Prognostic role of PD-L2 and TRPV2 in human endometrial cancer and novel integrative therapies
- Judgment: Excelent

NOVEMBER 2016 **QUALIFICATION TO PHARMACIST PROFESSION**

University of
Camerino

OCTOBER 2011 - JULY 2016 **MASTER DEGREE IN CHEMISTRY AND PHARMACEUTICAL TECHNOLOGY**

University of
Camerino

- Experimental Thesis title: Evaluation of thyme extract effects in human normal bronchial and tracheal epithelial cell lines and in human lung cancer cell line
- Judgment: 110/110 cum laude

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

PERSONAL SKILLS

Foreign language(s)

- English: Level B2
- French: Level A1

PUBLICATIONS

- Klionsky DJ, Abdel-Aziz AK, Abdelfatah S, Abdellatif M, Abdoli A, *omissis*, **Marinelli O**, *omissis*. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition)1. *Autophagy*. 2021 Jan;17(1):1-382. doi: 10.1080/15548627.2020.1797280. Epub 2021 Feb 8. PMID: 33634751; PMCID: PMC7996087.
- Moens S, Zhao P, Baietti MF, **Marinelli O**, Van Haver D, Impens F, Floris G, Marangoni E, Neven P, Annibali D, Sablina AA, Amant F. The mitotic checkpoint is a targetable vulnerability of carboplatin-resistant triple negative breast cancers. *Sci Rep*. 2021 Feb 4;11(1):3176. doi: 10.1038/s41598-021-82780-6.
- Lah TT, Novak M, Pena Almidon MA, **Marinelli O**, Žvar Baškovič B, Majc B, Mlinar M, Bošnjak R, Breznik B, Zomer R, Nabissi M. Cannabigerol Is a Potential Therapeutic Agent in a Novel Combined Therapy for Glioblastoma. *Cells*. 2021 Feb 5;10(2):340. doi: 10.3390/cells10020340.
- **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 Nov 19;20(1):1119. doi: 10.1186/s12885-020-07619-1.
- **Marinelli O**, Annibali D, Morelli MB, Zeppa L, Tuyraerts 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, 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 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, Santoni M, Maggi F, **Marinelli O** and Morelli MB (2020) Emerging Role of Mucolipins TRPML Channels in Cancer. *Front. Oncol*. 10:659. doi: 10.3389/fonc.2020.00659
- Santoni G, Maggi F, Amantini C, **Marinelli O**, Nabissi M and Morelli MB. Pathophysiological Role of Transient Receptor Potential Mucolipin Channel 1 in Calcium-Mediated Stress-Induced Neurodegenerative Diseases. *Front. Physiol*. 2020, 11:251. doi: 10.3389/fphys.2020.00251

PUBLICATIONS

- Santoni G, Maggi F, Morelli MB, Santoni M, Marinelli O. Transient Receptor Potential Cation Channels in Cancer Therapy. *Med. Sci.* 2019, 7, 108.
- **Marinelli O**, Annibali D, Aguzzi C, Tuyaerts 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 Oct 15;9:1073. doi: 10.3389/fonc.2019.01073.
- 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 25. doi: 10.1038/s41374-019-0333-7.
- 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. doi: 10.1007/978-3-030-12457-1_24.
- 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. doi: 10.1007/978-3-030-12457-1_20.
- 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 24;62(20):9078-9102. doi: 10.1021/acs.jmedchem.9b00623.
- 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. doi: 10.3389/fonc.2019.00874.
- 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. doi: 10.1016/j.phymed.2018.09.220.
- 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. doi: 10.1016/j.biopha.2018.06.004.
- 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. doi: 10.3389/fimmu.2018.01273.
- **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. doi: 10.2174/1389203719666180608093913.
- 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 Mar 30;9(24):16665-16677. doi: 10.18632/oncotarget.24645.

PUBLICATIONS

- 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 Feb 22;61(4):1646-1663. doi: 10.1021/acs.jmedchem.7b01760.
- 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 Oct 11;8(53):90766-90780. doi: 10.18632/oncotarget.21798.
- **Marinelli O**, Iannarelli R, Morelli MB, Valisi M, Nicotra G, Amantini C, Cardinali C, Santoni G, Maggi F, Nabissi M (2016). Evaluations of thyme extract effects in human normal bronchial and tracheal epithelial cell lines and in human lung cancer cell line. *CHEMICO-BIOLOGICAL INTERACTIONS*, vol. 256, p. 125-133, ISSN: 0009-2797, doi: 10.1016/j.cbi.2016.06.024
- Garzone AMF, Miele I, Pompilio A, Ciuccarelli F, Andresciani E, Tavoni MA, **Marinelli O**, Moretti V (2016). LA NUTRIZIONE ARTIFICIALE NEL PAZIENTE PEDIATRICO AFFETTO DA DISTURBI DEL COMPORTAMENTO ALIMENTARE. *GIORNALE ITALIANO DI FARMACIA CLINICA*, vol. 30, ISSN: 1120-3749

- **Oral Presentation**
- "4th Global Congress on Cancer Science and Oncology" organized by Conference Series LLC Ltd on 25/11/2020 abstract titled "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 and Nabissi M.
- THE INTERNATIONAL RETREAT OF PhD STUDENTS IN IMMUNOLOGY (Camogli, GE) organized by SIICA 5-6/12/2019 PD-L2 expression in endometrial cancer cell lines and biopsies. Biological functions and correlation with overall survival. **Marinelli Oliviero**, Annibali Daniela, Amant Frédéric, Morelli Maria Beatrice, Santoni Giorgio, Amantini Consuelo, Maggi Federica, Nabissi Massimo

- **Posters**
- **Oliviero Marinelli**, Daniela Annibali, Frédéric Amant, Massimo Nabissi (2019). Characterization of B7 members expression in endometrial cancer and clinical significance of PD-L2 in type II subtype. In: (a cura di): Bioevents, The Immuno-Oncology 2019 World Congress (Immuno-Oncology2019). vol. The Immuno-Oncology 2019 World Congress (Immuno-Oncology2019), p. 1-39, Tel Aviv-Yafo:BioEvents, Barcelona, 23-24 Maggio 2019
- **Oliviero Marinelli**, Massimo Nabissi, Maria Beatrice Morelli, Consuelo Amantini, Giorgio Santoni (2018). Investigation of Biological Function of Costimulatory b7 Family Members in Endometrial Cancer. In: The Immuno-Oncology 2018 World Congress (Immuno-Oncology2018). p. 1-61, Tel Aviv-Yafo:BioEvents, Vienna, 25-26 Giugno 2018

PUBLICATIONS

- Review Editor in Frontiers in Oncology section Neuro-Oncology and Neurosurgical Oncology Guest
- Guest Editor Special Issue "Hypoxia and Cancer. Mechanism of Action and Potential Therapeutic Approaches" in International Journal of Molecular Sciences
- Travel grant awarded by EFIS -INTERNATIONAL PHD RETREAT
- Grant SAS AWARD 2019