



# Europass Curriculum Vitae

## Personal information

**First name(s) / Surname(s)** Massimo Nabissi  
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**Nationality** Italian

## Work experience

**Dates** 01 January 2018  
**Occupation or position held** Associate Professor MED-46  
**Main activities and responsibilities**

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

2008-2017

Assistant Professor in General Pathology in School of Pharmacy and University of Camerino.

**Name and address of employer** University of Camerino  
Via del Bastione, 62032 Camerino (Italy)

**Type of business or sector** Education and Research

**Dates** 01/04/2004 - 31/03/2007

**Occupation or position held** Post-Doc in General Pathology

**Main activities and responsibilities** Working in a research team involved in human glioma and urogenital cancer projects.

**Name and address of employer** University of Camerino  
Via del Bastione, 62032 Camerino (Italy)

**Type of business or sector** Education and Research

Dates

04 March 1998 - 01 March 2004

Occupation or position held

**Senior Scientist**

Main activities and responsibilities

Genetic studies for increasing anthracycline compound production in *streptomyces* strain.

Name and address of employer

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

Type of business or sector

Private Biotech

## Education and training

Date

2018

Title of qualification

Full Professor in Scientific Sector. 06/N1 Qualification.

Date

2015

Title of qualification

Associate Professor in Scientific Sector. 06/N1 Qualification.

Dates

11/1992 - 10/1996

Title of qualification awarded

**PhD in Cellular and Molecular Biology**

Principal subjects / occupational skills

Role of Proopiomelanocortin (POMC) system in vertebrate reproduction.

covered

Name and type of organisation

University "Sapienza"

providing education and training

Piazzale Aldo Moro 5, 00185 Rome (Italy)

Level in national or international

ISCED 5

classification

Dates

October 1987 - July 1992

Title of qualification awarded

**Degree in Biological Science**

Principal subjects / occupational skills

Biology

covered

Name and type of organisation

University of Camerino

providing education and training

Via del Bastione, 62026 Camerino (Italy)

## **Additional information**

### **Recent Scientific Interests**

#### **Endometrial cancer**

1. Immunotherapy in endometrial cancer,
2. Cannabinoid receptors in endometrial cancer

#### **Brain Cancer.**

1. Transcriptional regulation of TRP channels,
2. Cannabinoids and Chemoterapeutic pathways disregulation
3. Multidrugs Combination Therapy

#### **Bladder Cancer.**

Effects of TRPV1 agonists in bladder cancer cells

#### **Multiple Myeloma.**

1. Cannabinoids and Chemo-therapeutic pathways disregulation
2. Proteasome inhibitors in MM plasmacells proliferation. Mechanisms of action
3. Signaling pathways regulating MM plasmacells chemoresistance.

#### **Prostate cancer.**

1. The role of Adrenergic receptors in prostate cancer cell proliferation

#### **Pancreas cancer**

1. Isolation and characterization of Circulating Tumor Cells from Blood

#### **Nutrition and Immunology**

1. Detection of IgA in saliva and GLP-1 in serum samples in human

#### **Plant extracts biology**

1. Cellular and molecular analysis of plant extracts biology in human cell lines and in 3D cell cultures

#### **CB2 ligand biology**

1. Evaluation of biological activity of CB2 ligands

### **GRANTS**

1. PSR Marche 2019.
2. Immunotherapy and cannabis in multiple myeloma. Entourage Biosciences. 2019
3. Cannabinoids and Endometrial cancer. Enecta 2019
4. Ozonotherapy, cannabis and pancreatic cancer. Fondazione Amor Onlus. 2019
5. FAR 2019. UNICAM
6. FFABR 2017.
7. Evaluation of the anti-bacterial, anti-viral and immunostimulant activity of Stimunex® and Viprofast®. Sakura. 2017
8. Evaluation of Pre- and Probiotic in Atopic dermatitis. SinBiotech granted. 2017
9. Evaluation of enriched fiber food in Mucosal IgA regulation. FiberPasta s.r.l. 2017.
10. Anti-inflammatory and mucolytic activity analysis in 3D-epithelial bronchial cells of Thyme extract. EPO s.r.l. . 2017.

11. FAR Unicam. TOWARD THE USE OF RUTHENIUM COMPOUNDS AS IDEAL ANTICANCER AGENTS. 2016. Granted
12. Mucolytic and Antiinflammatory effect of different thyme extracts. EPO (Istituto Farmochimico Italiano). 2016. Granted
13. Mechanism of Carfilzomib Resistance in multiple myeloma cell lines. Ospedali Riuniti Grant (Prof. Pietro Leoni, Head of Hematology Department). 2015. Granted.
14. AIRC 2014. Presented by Prof. Cascinu Stefano. *Circulating tumor cells and exosomes in human pancreatic cancer. The impact on prognosis and treatment strategy.* Granted
15. Smart Polymeric Materials for eco-friendly antimicrobial application. FAR 2013. Granted
16. Pre-clinical project: Role of TRPV2 channels in plasmacells derived from patients diagnosed with multiple myeloma. Grant from AIL. Ethics Committee: Approval 01-2010. Granted
17. National Research Program (PRIN 2010). Resiniferatoxin and Capsaicin as modulators of apoptotic and autophagic interplay in bladder cancer. New therapeutic prospectives to improve clinical outcome. Granted
18. Determination of methods for operating room decontamination. Grant from FHP of R. Freudenberg sas. 2009. Granted

## **PATENTS**

### ***International***

1. Use of Cannabinoids in the treatment of multiple myeloma. WO/2018/037203
2. Pompei; P.; Massi; M.; **Nabissi; M.**; Sparapani; P. Use of substance P antagonists in the treatment of the adenocarcinomas. United States Patent: 6,576,638 . PCT NO: PCT/EP00/06309. PCT PUB.NO.: WO01/01922

### **External Expert for European International Research Program (number of years as reviewer)**

1. Reproducibility Review Panel: Cancer Biology-2016
2. COST (European Cooperation in Science and Technology) 2016
3. STRATEGMED, National Centre for Research and Development, Poland 2014
4. WHRI-ACADEMI International Fellowship programme, London, UK 2013-2016

### **Erasmus Tutor**

1. Hossain A K M Mofasser. Stage to: Frida Fåk, Associate Professor. Department of Food Technology, Engineering and Nutrition. Applied Nutrition and Food Chemistry. Lund University, Sweden 2013
2. Hossain A K M Mofasser. Stage to: Professor Charles Brennan, Department of Wine, Food and Molecular Sciences, Lincoln University, New Zealand. 2014
3. Matteo Valeri. Stage to: Professor Dr. Michael Decker Pharmazeutische und Medizinische Chemie. Institut für Pharmazie und Lebensmittelchemie. Julius-Maximilians-Universität Würzburg, Am Hubland, D-97074 Würzburg, Germany. 2016

**Ph.D. Tutor**

1. Dr. Oliviero Marinelli. Immunotherapy in Endometrial cancer. UNICAM International Ph.D. program 2016-2018

**Bibliography 2015-2021**

1. Daniel J Klionsky et al. Guidelines for the use and interpretation of assays for monitoring autophagy (4th edition). *Autophagy*. 2021;17(1):1-382.
2. Santoni G, Amantini C, Nabissi M, Maggi F, Arcella A, Marinelli O, Eleuteri AM, Santoni M, Morelli MB. Knock-Down of Mucolipin 1 Channel Promotes Tumor Progression and Invasion in Human Glioblastoma Cell Lines. *Front. Oncol.* 2021;11:578928.
3. 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;10(2):340.
4. Marinelli O, Annibali D, Morelli MB, Zeppa L, Tuyaerts S, Aguzzi C, Amantini C, Maggi F, Ferretti B, Santoni G, Amant F and Nabissi M (2020) Biological Function of PD-L2 and Correlation With Overall Survival in Type II Endometrial Cancer. *Front. Oncol.* 10:538064. doi: 10.3389/fonc.2020.538064
5. 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;132:110845. doi: 10.1016/j.biopha.2020.110845.
6. 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):E2774. doi: 10.3390/cancers12102774.
7. Marinelli O, Morelli MB, Annibali D, Aguzzi C, Zeppa L, Tuyaerts S, Amantini C, Amant F, Ferretti B, Maggi F, Santoni G, Nabissi M. The Effects of Cannabidiol and Prognostic Role of TRPV2 in Human Endometrial Cancer. *Int J Mol Sci*. 2020; 21(15):5409.
8. 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;25(15):3451.

9. 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
10. 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.
11. 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; 100(2):186-198.
12. 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; 62(20):9078-9102.
13. Marinelli O, Annibali D, Aguzzi C, Tuyaeerts S, Amant F, Morelli MB, Santoni G, Amantini C, Maggi F and **Nabissi M** (2019) The Controversial Role of PD-1 and Its Ligands in Gynecological Malignancies. *Front. Oncol.* 9:1073.
14. 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.
15. **Nabissi M**, Amant F., Gehrig, P., eds. (2019). Endometrial Cancer: From Biological to Clinical Approaches. Lausanne: Frontiers Media.
16. 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
17. 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. Role of the NMDA Receptor in the Antitumor Activity of Chiral 1,4-Dioxane Ligands in MCF-7 and SKBR3 Breast Cancer Cells. *ACS Med Chem Lett.* 2019;10(4):511-516
18. 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.
19. **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

20. 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.
21. 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;9:1273.
22. Benelli G, Pavela R, Lupidi G, **Nabissi M**, Petrelli R, Ngahang Kamte SL, Cappellacci L, Fiorini D, Sut S, Dall'Acqua S, Maggi F. The crop-residue of fiber hemp cv. Futura 75: from a waste product to a source of botanical insecticides. *Environ Sci Pollut Res Int*. 2018;25(11):10515-10525.
23. 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
24. Dolles D, Hoffmann M, Gunesch S, Marinelli O, Möller J, Santoni G, Chatonnet A, Lohse MJ, Wittmann HJ, Strasser A, **Nabissi M**, Maurice T, Decker M. Structure-Activity Relationships and Computational Investigations into the Development of Potent and Balanced Dual-Acting Butyrylcholinesterase Inhibitors and Human Cannabinoid Receptor 2 Ligands with Pro-Cognitive in Vivo Profiles. *J Med Chem*. 2018, 22;6:1646-1663.
25. 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.
26. Benelli G, Pavela R, Lupidi G, **Nabissi M**, Petrelli R, Ngahang Kamte SL, Cappellacci L, Fiorini D, Sut S, Dall'Acqua S, Maggi F. The crop-residue of fiber hemp cv. Futura 75: from a waste product to a source of botanical insecticides. *Environ Sci Pollut Res Int*. 2017.
27. De Petrocellis G., **Nabissi M.**, Santoni G., Ligresti A. Actions and Regulation of Ionotropic Cannabinoid Receptors. In David Kendall and Stephen P.H. Alexander, editors: *Cannabinoid Pharmacology*, Vol 80, APHA, UK: Academic Press, 2017, pp. 249-289.
28. Wołoszyn A, Pettinari C, Pettinari R, Badillo Patzmay GV, Kwiecień A, Lupidi G, **Nabissi M**, Santoni G, Smoleński P. Ru(ii)-(PTA) and -mPTA complexes with N2-donor ligands bipyridyl and phenanthroline and their antiproliferative activities on human multiple myeloma cell lines. *Dalton Trans*. 2017; 46(30):10073-10081.
29. Maria Beatrice Morelli, Consuelo Amantini, **Massimo Nabissi**, Claudio Cardinali, Matteo Santoni, Giovanni Bernardini, Angela Santoni, Giorgio Santoni. Axitinib induces senescence-associated cell death and necrosis in glioma cell lines. The proteasome inhibitor, bortezomib, potentiates axitinib-induced cytotoxicity in a p21(Waf/Cip1) dependent manner. *Oncotarget*, 2016; 8(2):3380-3395.
30. Massimo Nabissi, Maria Beatrice Morelli, Antonietta Arcella, Claudio Cardinali, Matteo Santoni, Giovanni Bernardini, Angela Santoni, Giorgio Santoni, Consuelo Amantini. Post-transcriptional

- regulation of 5-untranslated regions of human Transient Receptor Potential Vanilloid type-1 (TRPV-1) channels: role in the survival of glioma patients. **Oncotarget**, 2016; 7(49):81541-81554.
31. 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.
32. Cuccioloni M, Bonfili L, Mozzicafreddo M, Cekarini V, Scuri S, Cocchioni M, Nabissi M, Santoni G, Eleuteri AM, Angeletti M. Mangiferin blocks proliferation and induces apoptosis of breast cancer cells via suppression of the mevalonate pathway and by proteasome inhibition. **Food Funct**. 2016;7(10):4299-4309.
33. Marinelli Oliviero, Innarelli Romilde I, Morelli Maria Beatrice, Valisi Matteo, Nicotra Giovanna, Amantini Consuelo, Cardinali Claudio, Santoni Giorgio, Maggi Filippo, Nabissi Massimo. Evaluations of thyme extract effects in human normal bronchial and tracheal epithelial cell lines and in human lung cancer cell line. **Chem Biol Interact**. 2016;256:125-133
34. 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.
35. 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(28):43654-43668.
36. Riccardo Pettinari, Fabio Marchetti , Agnese Petrini, Claudio Pettinari, Giulio Lupidi, Belén Fernández, Antonio Rodríguez Diéguez, Giorgio Santoni, Massimo Nabissi. Ruthenium(II)-arene complexes with dibenzoylmethane induce apoptotic cell death in multiple myeloma cell lines. **Inorganica Chimica Acta** (2016).
37. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Klionsky DJ et al. (*more than 50 authors*). **Autophagy**. 2016;12(1):1-222.

Prof. Massimo Nabissi Ph.D.