

## INFORMAZIONI PERSONALI

**Valentina Trapani**[valentina.trapani@unicamillus.org](mailto:valentina.trapani@unicamillus.org)

## ESPERIENZE PROFESSIONALI

Da ottobre 2024 **Professore Associato**  
MED/04 Patologia generale  
UniCamillus-Saint Camillus International University of Health Sciences, Roma

6 giugno 2022 **Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Seconda Fascia 06/A2 Patologia generale e Patologia clinica**  
(valevole fino al 6/6/2033)

Da ottobre 2020 **Professore a contratto e cultore della materia**  
MED/04 Patologia generale  
Università Cattolica del Sacro Cuore, Roma

**Scientific Officer**

Alleanza contro il Cancro, Roma

Ottobre 2015 - Settembre 2020 **Ricercatore a tempo determinato**  
MED/04 Patologia generale  
Università Cattolica del Sacro Cuore, Roma

Novembre 2014 – Ottobre 2015 **Borsista**  
Istituto di Studi Superiori Giuseppe Toniolo, Roma

Novembre 2011 - Ottobre 2014 **Assegnista**  
MED/04 Patologia generale  
Università Cattolica del Sacro Cuore, Roma

Ottobre 2010 - Ottobre 2011 **Tutor**  
Patologia generale e applicata, Corso di Laurea triennale in Biotecnologie sanitarie  
Università Cattolica del Sacro Cuore, Roma

Febbraio 2005 - Settembre 2010 **Borsista**  
Istituto di Patologia generale  
Università Cattolica del Sacro Cuore, Roma

January 2003-January 2005 **Borsista AIRC**  
Consorzio Mario Negri Sud, Santa Maria Imbaro (CH)

ESPERIENZA INTERNAZIONALE
 

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Dicembre 2019 Visiting professor

Facoltà di Medicina

Università Cardinal Stefan Wyszyński, Varsavia, Polonia

Marzo - Luglio 2006 Visiting scientist

Dipartimento di Microbiologia, Immunologia e Genetica (Prof. R. Schweyen)

Max Perutz Laboratories, Vienna, Austria

Studio del trasporto di magnesio nel lievito e in mitocondri isolati mediante tecniche biochimiche e fluorimetriche

Luglio - Dicembre 2000 Visiting scientist

Division of Cancer Treatment and Diagnosis (Prof. E. Sausville)

NCI, National Institutes of Health, Bethesda, MD; USA

Studio delle vie di trasduzione del segnale modulate da farmaci antitumorali sperimentali mediante tecniche di biologia molecolare

Maggio - Luglio 2000 Visiting scientist

Division of Cancer Treatment and Diagnosis (Prof. S. Stinson)

National Cancer Institute, Frederick, MD, USA

Caratterizzazione del metabolismo di farmaci antitumorali sperimentali mediante HPLC

Novembre 1999 - Ottobre 2002 PhD Student

Cancer Research Laboratories, School of Pharmacy (Prof. M. F. G. Stevens)

University of Nottingham, UK

Caratterizzazione del meccanismo d'azione di farmaci antitumorali sperimentali mediante tecniche di biologia cellulare

Ottobre 1998 - Ottobre 1999 MSc Student

Cancer Research Laboratories, School of Medicine (Prof. C. Laughton)

University of Nottingham, UK

Caratterizzazione del meccanismo d'azione di farmaci antitumorali sperimentali mediante tecniche computazionali di modellistica molecolare

 PROGETTI EUROPEI
 

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Da aprile 2023 ECHoS: Establishing Cancer Mission Hubs: Networks and Synergies, Coordination and Support Action, HORIZON-MISS-2022-CANCER-01-05

Da novembre 2022 CAN HEAL: Building the EU Cancer and Health Genomics platform, Action Grant, EU4H-2021-PJ-15

Da ottobre 2022 CraNE: EU Network of Comprehensive Cancer Centres: Preparatory activities on creation of National Comprehensive Cancer Centres and EU Networking, Joint Action, EU4H-2021-JA-IBA

Sett 2022-Nov 2023 4.UNCAN.eu: A Coordination and Support Action to prepare UNCAN.eu platform, Coordination and Support Action, HORIZON-MISS-2021-UNCAN-01-01

Da marzo 2021 TRANSCAN-3: Sustained collaboration of national and regional programmes in cancer research, ERA-NET Co-fund, H2020-SC1-BHC-2018-2020

Da ottobre 2020 oncNGS: NGS diagnostics in 21st century oncology: the best, for all, at all time, Pre-commercial Procurement, H2020-SC1-BHC-2018-2020

## ATTIVITÀ DIDATTICA

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- Dal 2021 **Attività seminariale**  
Scuole di Specializzazione in Radioterapia e Radiodiagnostica  
Università Cattolica del Sacro Cuore, Roma
- Oncologia**  
Corso di Laurea a ciclo unico in Farmacia  
Università Cattolica del Sacro Cuore, Roma
- Dal 2020 **Ion Signaling and Cancer**
- MSc Cancer Physiopathology ***(in lingua inglese)***  
Université de Picardie Jules Verne, Amiens, Francia
- General Pathology (cultore della materia)**  
Corso di Laurea a ciclo unico in Medicine and Surgery ***(in lingua inglese)***  
Università Cattolica del Sacro Cuore, Roma
- A.a. 2019/2020 **General Pathology**  
BSc Nursing ***(in lingua inglese)***  
Uniwersytet Kardinala Stefana Wyszyńskiego, Varsavia, Polonia
- Dicembre 2018 **Membro della commissione di dottorato**  
Ecole Doctorale Science, Technologie et Santé  
Université de Picardie Jules Verne, Amiens, Francia
- Dal 2018 **Molecular Pathology, Immunology and Pathophysiology (Practicals)**  
Corso di Laurea a ciclo unico in Medicine and Surgery ***(in lingua inglese)***  
Università Cattolica del Sacro Cuore, Roma
- Dal 2017 **Patologia e fisiopatologia generale (tirocinio professionalizzante)**  
Corso di Laurea a ciclo unico in Medicina e chirurgia  
Università Cattolica del Sacro Cuore, Roma
- Dal 2014 **Patologia generale e molecolare**  
Corsi di Laurea Triennale in Logopedia, Ostetricia, Fisioterapia, Ortottica, Tecniche di Laboratorio biomedico, Tecniche di radiologia, diagnostica per immagini e radioterapia, Terapia della psiconeuromotricità infantile  
Università Cattolica del Sacro Cuore, sedi di Potenza e Roma
- 2012 - 2014 **Patologia generale e molecolare**  
Corso di Laurea triennale in Tecniche di Laboratorio biomedico  
Università Cattolica del Sacro Cuore, sede di Campobasso

- 2010 - 2011 **Patologia generale e applicata**  
Corso di laurea triennale in Biotecnologie sanitarie  
Università Cattolica del Sacro Cuore, Roma  
Tutor per le attività di laboratorio
- Dal 2009 **Correlatore di tesi di laurea**  
Corso di laurea triennale in Biotecnologie sanitarie  
Corso di laurea magistrale in Biotecnologie mediche  
Università Cattolica del Sacro Cuore, Roma  
Supervisione delle attività di ricerca e stesura della tesi per più di 10 studenti
- Dal 2008 **Patologia generale e applicata**  
Corso di laurea triennale in Biotecnologie sanitarie  
Università Cattolica del Sacro Cuore, Roma  
Esercitazioni teorico-pratiche su tecniche di imaging
- Dal 2007 **Patologia e fisiopatologia generale**  
Corso di laurea a ciclo unico in Medicina e Chirurgia  
Università Cattolica del Sacro Cuore, Roma  
Esercitazioni teoriche-pratiche su preparati istopatologici

## ISTRUZIONE

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- 2007 - 2010 **Dottorato di ricerca in Oncobiologia e Oncologia medica**  
Università Cattolica del Sacro Cuore, Roma  
Studio del trasporto di magnesio in cellule normali e tumorali (Prof. F. I. Wolf)
- 1999-2002 **PhD in Pharmacy**  
University of Nottingham, UK  
The novel antitumour drug Phortress: from molecule to mechanism (Prof. M. F. G. Stevens)
- 1998-1999 **MSc Oncology with distinction**  
University of Nottingham, UK  
The interaction of novel acridines with triplex DNA (Dr. C.A. Laughton)
- 1992-1997 **Laurea in Fisica (110/110 con lode)**  
Università Federico II, Napoli  
Analisi di aberrazioni cromosomiche indotte dalla contaminazione ambientale (Prof. G. Gialanella)

## CORSI DI AGGIORNAMENTO

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- 27 gen-5 feb 2021 **Teacher Training Seminar on Active Learning**  
IDEAL + Programme, Roma
- Un programma Erasmus dedicato alla diffusione a livello europeo di metodi didattici innovativi per gli studenti di Medicina
- Dicembre 2019- Giugno 2020 **Two2Tango - Tandems for teaching in the international classroom**  
Centre for Higher Education Internationalisation, Roma
- Un corso per il potenziamento delle competenze pedagogiche, culturali e linguistiche per l'insegnamento universitario a classi internazionali.
- Gennaio 2007 **Advanced Optical Microscopy Methods in Biophysics**  
School of Pure and Applied Biophysics, Venezia
- Aggiornamento su tecniche avanzate di microscopia ottica
- Giugno 2005 **Advanced Light Microscopy**  
FEBS Course, Semmering, Austria
- Aggiornamento su tecniche di live imaging confocale

## ATTIVITA EDITORIALI

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- Dal 2019 **Expert evaluator e monitor, Vice-Chair Quality Controller, Cross-reader, Rapporteur**  
Commissione Europea, programmi *Horizon 2020* e *Horizon Europe*
- 2018 **Guest Editor**  
Nutrients, MDPI
- 2018 **Expert Evaluator**  
PRIN 2017
- 2017-2019 **Expert Evaluator**  
Commissione Europea, programma *Horizon 2020*
- Dal 2015 **Membro dell' Editorial Board**  
*Magnesium Research*, John Libbey
- 2015 **Expert Evaluator**  
Czech Science Foundation, Repubblica Ceca
- Dal 2012 **Reviewer**  
*The Analyst, Annals of Nutrition, Cardiovascular Research, Cells, Chemical Biology, Chemical Science, Chemotherapy, Current Medicinal Chemistry, Expert Opinion on Drug Discovery, International Journal of Cancer, International Journal of Molecular Sciences, Journal of Biomedical Optics, Journal of Experimental Cancer Research, Immunopharmacology, Magnesium Research, Nutrients*, tra gli altri
- 2007-2009 **Traduttore e curatore di manuali universitari di medicina**  
Elsevier-Masson

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**PREMI**

- 2020 **Menzione speciale**  
SDRM (International Society for the Development of Research on Magnesium)  
▪ Premio per il contributo scientifico alla ricerca sul magnesio nel biennio 2018-19
- 2019 **Premio Sanofi**  
XV International Magnesium Symposium, NIH, Bethesda, MD, USA  
▪ Premio per la migliore comunicazione orale
- 2017 **Premio Pubblicazione Alta Qualità**  
Università Cattolica del Sacro Cuore, Roma  
▪ Premio per la migliore pubblicazione UCSC
- 2016 **Best Oral Presentation Award**  
XIV International Magnesium Symposium, Roma  
▪ Premio per la migliore comunicazione orale
- 2002 **Best Young Presenter Award**  
23rd Meeting of EORTC-PAMM Group, Copenhagen, Danimarca  
▪ Premio per la migliore comunicazione orale di un giovane ricercatore

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**INDICI BIBLIOMETRICI**

H-index	24 ( <i>Scopus Agosto 2024</i> )
Pubblicazione in estenso	50
Capitoli in libri	3
Abstracts internazionali	51
Comunicazioni orali su invito	8

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**PUBBLICAZIONI IN RIVISTE  
INDICIZZATE**

1. Fedele G, Castiglioni S, Trapani V, Zafferri I, Bartolini M, Casati S, Ciuffreda P, Wolf FI, Maier JA (2024). Impact of Inducible Nitric Oxide Synthase Activation on Endothelial Behavior under Magnesium Deficiency. *Nutrients* 16(10), 1406.
2. Puca P, Capobianco I, Coppola G, Di Vincenzo F, Trapani V, Petito V, Laterza L, Pugliese D, Lopetuso LR, Scaldaferrri F. (2024) Cellular and Molecular Determinants of Biologic Drugs Resistance and Therapeutic Failure in Inflammatory Bowel Disease. *Int J Mol Sci.* 25(5):2789.
3. Wolf FI, Trapani V\*. (2024). Magnesium and vitamin D in long COVID syndrome, do they help? *Magnes Res.* doi: 10.1684/mrh.2024.0521. Online ahead of print.  
\*corresponding author
4. Wolf FI, Trapani V, Touyz R. (2022) Glasgow Magnesium Symposium 2022: Wrap up and depart. *Magnes Res.* 35(2):71-79.
5. Del Chierico F\*, Trapani V\*, Petito V, Reddel S, Pietropaolo G, Graziani C, Masi L, Gasbarrini A, Putignani L, Scaldaferrri F, Wolf FI (2021). Dietary Magnesium

- Alleviates Experimental Murine Colitis through Modulation of Gut Microbiota. *Nutrients* 13(12):4188. \*co-first authors
6. Trapani V, Rosanoff A, Baniyadi S, Barbagallo M, Castiglioni S, Guerrero-Romero F, Iotti S, Mazur A, Micke O, Pourdowlat G, Scarpati G, Wolf FI, Maier JAM. (2021). The Relevance of Magnesium Homeostasis in COVID-19. *Eur J Nutr* 61(2):625-636.
  7. Wolf FI, Maier JA, Rosanoff A, et al. (2021). The magnesium global network (MaGNet) to promote research on magnesium in diseases focusing on COVID-19. *Magnes Res* 34(2):90-92.
  8. Pietropaolo G, Pugliese D, Armuzzi A, Guidi L, Gasbarrini A, Rapaccini GL, Wolf FI, Trapani V\*. (2020). Magnesium Absorption in Intestinal Cells: Evidence of Cross-Talk between EGF and TRPM6 and Novel Implications for Cetuximab Therapy. *Nutrients* 12: 3277. \*corresponding author.
  9. Pugliese D, Armuzzi A, Castri F, Benvenuto R, Mangoni A, Guidi L, Gasbarrini A, Rapaccini GL, Wolf FI, Trapani V\*. (2020). TRPM7 Is Overexpressed in Human IBD-Related and Sporadic Colorectal Cancer and Correlates with Tumor Grade. *Dig Liver Dis* 52: 1188-1194. \*corresponding author
  10. Trapani V\*, Wolf FI. The TRPM7 channel kinase: rekindling an old flame or not? (2020) *Cardiovascular Research* 116: 476-478. \*corresponding author
  11. Trapani V\*, Wolf FI. (2019) Dysregulation of Mg<sup>2+</sup> homeostasis contributes to acquisition of cancer hallmarks. *Cell Calcium* 83: 102078. \*corresponding author
  12. Luongo F, Pietropaolo G, Gautier M, Dhennin-Duthille I, Ouadid-Haidouch H, Wolf FI, Trapani V.\* (2018) TRPM6 Is Essential for Magnesium Uptake and Epithelial Cell Function in the Colon. *Nutrients* 10: 784. \*corresponding author
  13. Trapani V, Petito V, Di Agostini A, Arduini D, Hamersma W, Pietropaolo G, Luongo F, Arena V, Stigliano E, Lopetuso, LR, Gasbarrini A, Wolf FI, Scaldaferrì F. (2018). Dietary magnesium alleviates experimental murine colitis through upregulation of the transient receptor potential melastatin 6 channel. *Inflam Bowel Dis*. 24: 2198-2210.
  14. Luzzani GA, Callero MA, Kuruppu AI, Trapani V, Flumian C, Todaro L, Bradshaw TD, Loaiza Perez, AI. (2017) In vitro antitumor effects of AhR ligands Aminoflavone (AFP 464) and Benzothiazole (5F 203) on human renal carcinoma cells. *J Cell Biochem* 118: 4526-4535.
  15. Cazzaniga A, Moscheni C, Trapani V, Wolf FI, Farruggia G, Sargenti A, Iotti S, Maier JAM, Castiglioni S. (2017). The different expression of TRPM7 and MagT1 impacts on the proliferation of colon carcinoma cells sensitive or resistant to doxorubicin. *Sci Rep* 7: 40538.
  16. Trapani V\*, Luongo F, Arduini D, Wolf FI. (2016). Magnesium modulates doxorubicin activity through drug lysosomal sequestration and trafficking. *Chem Res Toxicol* 29: 317-322. \*corresponding author
  17. Castiglioni S, Cazzaniga A, Trapani V, Cappadone C, Farruggia G, Merolle L, Wolf FI, Iotti I, Maier JAM. (2015). Magnesium homeostasis in colon carcinoma LoVo cells sensitive or resistant to doxorubicin. *Sci Rep* 5: 16538.
  18. Trapani V\*, Wolf FI, Scaldaferrì F. (2015). Dietary magnesium: the magic mineral that protects from colon cancer. *Magnes Res* 28: 108-111. \*corresponding author
  19. Trapani V\*, Wolf FI (2015). Mitochondrial magnesium to the rescue. *Magnes Res* 28: 79-84. \*corresponding author
  20. Trapani V\*, Shomer N, Rajcan-Separovic E (2015). The role of MAGT1 in genetic syndromes. *Magnes Res* 28: 46-55. \*corresponding author
  21. Trapani V, Arduini D, Luongo F, Wolf FI (2014). EGF stimulates Mg<sup>2+</sup> influx in

- mammary epithelial cells. *Biochem Biophys Res Commun*, 454: 572-575.
22. Qiao Y\*, Mondal K\*, Trapani V\*, Wen J, Carpenter G, Wildin R, Price ME, Gibbons RJ, Eichmeyer J, Jiang R, DuPont B, Martell S, Lewis SME, Robinson WP, O'Driscoll M, Wolf FI, Zwick ME, Rajcan-Separovic E. (2014) Variant ATRX syndrome with dysfunction of ATRX and MAGT1 genes. *Human Mutation*, 35(1): 58-62. \*co-first authors
  23. Trapani V, Arduini D, Cittadini A, Wolf FI (2013). From magnesium to magnesium transporters in cancer: TRPM7, a novel signature in tumour development. *Magnes Res*, 26(4): 149-155.
  24. Wolf FI, Trapani V. (2012) Magnesium and its transporters in cancer: a novel paradigm in tumour development. *Clin Sci* 123(7): 417-427.
  25. Marraccini C, Farruggia G, Lombardo M, Prodi L, Sgarzi M, Trapani V, Trombini C, Zaccheroni N, Wolf FI, Iotti S. (2012) Diaza-18-crown-6 hydroxyquinoline derivatives as flexible tools for the assessment and imaging of total intracellular magnesium. *Chem Sci* 3: 727-734.
  26. Trapani V, Schweigel-Roentgen M, Cittadini A, Wolf FI. (2012). Intracellular magnesium detection by fluorescent indicators. *Methods Enzymol* 505: 421-444.
  27. Lagomarsino S, Iotti S, Farruggia G, Cedola A, Trapani V, Fratini M, Bukreeva I, Notargiacomo A, Mastrototaro L, Marraccini C, Sorrentino A, McNulty I, Vogt S, Legnini D, Kim S, Gianoncelli A, Maier JAM, Wolf FI. (2011) Intracellular concentration map of magnesium in whole cells by combined use of X-ray fluorescence microscopy and atomic force microscopy. *Spectrochim Acta B* 66: 834-840.
  28. Mastrototaro L, Trapani V, Boninsegna A, Martin H, Devaux S, Berthelot A, Cittadini A, Wolf FI. (2011). Dietary Mg<sup>2+</sup> regulates the epithelial Mg<sup>2+</sup> channel TRPM6 in rat mammary tissue. *Magnesium Res* 24: S122-9.
  29. Wolf FI, Trapani V. (2011). MagT1: a highly specific magnesium channel with important roles beyond cellular magnesium homeostasis. *Magnesium Res* 24: S86-S91.
  30. Wolf FI, Trapani V. (2010) TRPM7 and magnesium, metabolism, mitosis: an old path with new pebbles. *Cell Cycle* 9: 3399.
  31. Trapani V, Farruggia G, Marraccini C, Iotti S, Cittadini A, Wolf FI. (2010) Intracellular magnesium detection: imaging a brighter future. *Analyst* 135: 1855-1866.
  32. Wolf FI, Trapani V, Simonacci M, Mastrototaro L, Cittadini A, Schweigel M. (2010) Modulation of TRPM6 and Na<sup>+</sup>/Mg<sup>2+</sup> exchange in mammary epithelial cells in response to variations of magnesium availability. *J Cell Physiol* 222 (2): 374-381.
  33. Wolf FI, Trapani V, Cittadini A, Maier JAM. (2009) Hypomagnesaemia in oncologic patients: to treat or not to treat? *Magnesium Res* 22: 5-9.
  34. Wolf FI, Trapani V. (2009) Multidrug resistant phenotypes and MRS2 mitochondrial magnesium channel: two players from one stemness? *Cancer Biol Ther* 8: 60-62.
  35. Wolf FI, Trapani V, Simonacci M, Boninsegna A, Mazur A, Maier JAM (2009) Magnesium deficiency affects mammary epithelial cell proliferation: involvement of oxidative stress. *Nutr Cancer* 61(1): 131-6.
  36. Farruggia G, Iotti S, Prodi L, Zaccheroni N, Montalti M, Andreani G, Trapani V, Wolf FI. (2009) A simple spectrofluorimetric assay to measure total intracellular magnesium by a hydroxyquinoline derivative. *J Fluoresc* 19: 11-19.
  37. Wolf FI, Trapani V, Cittadini A. (2008) Magnesium and the control of cell proliferation: looking for a needle in a haystack. *Magnesium Res* 21: 1-9.
  38. Wolf FI, Trapani V, Simonacci M, Ferré S, Maier JAM. (2008) Magnesium

- deficiency and endothelial dysfunction: is oxidative stress involved? *Magnesium Res* 21: 58-64.
39. Wolf FI, Trapani V. (2008) Cell (patho)physiology of magnesium. *Clin Sci* 4(1): 27-35.
  40. Bradshaw TD, Stone EL, Trapani V, Leong C-O, Matthews CS, Te Poele R, Stevens MF. (2008) Mechanisms of acquired resistance to 2-(4-Amino-3-methylphenyl)benzothiazole in breast cancer cell lines. *Breast Cancer Res Treat* 110(1): 57-68.
  41. Farruggia G, Iotti S, Prodi L, Montalti M, Zaccheroni N, Savage PB, Trapani V, Sale P, Wolf FI (2006) 8-Hydroxyquinoline derivatives as fluorescent sensors for magnesium in living cells. *J Am Chem Soc* 128: 344-350.
  42. Buccione R, Baldassarre M, Trapani V, Catalano C, Pompeo A, Brancaccio A, Giavazzi R, Luini A, Corda D. (2005) Glycerophosphoinositols inhibit extracellular matrix invasion by tumour cells. *Eur J Cancer* 41: 470-476.
  43. Brantley E, Patel V, Stinson SF, Trapani V, Hose CD, Ciolino HP, Yeh GC, Gutkind JS, Sausville EA, Loaiza-Pérez AI. (2005). The antitumor drug candidate 2-(4-amino-3-methylphenyl)-5-fluorobenzothiazole induces NF- $\kappa$ B activity in drug-sensitive MCF-7 cells. *Anticancer Drugs* 16: 137-143.
  44. Missailidis S, Modi C, Trapani V, Loughton CA, Stevens MFG. (2005) Antitumor Polycyclic Acridines. Part 16. Triplex DNA as a Target for DNA-Binding Polycyclic Acridine Derivatives. *Oncol Res* 15: 95-105.
  45. Brantley E, Trapani V, Alley MC, Hose CD, Bradshaw TD, Stevens MFG, Stinson SF. (2004). Fluorinated 2-(4-amino-3-methylphenyl)benzothiazoles induce CYP1A1 expression, become metabolised and bind to macromolecules in sensitive human cancer cells. *Drug Metab Dispos* 32: 1392-1401.
  46. Trapani V, Patel V, Leong C-O, Ciolino HP, Yeh GC, Hose CD, Trepel JB, Stevens MFG, Sausville EA, Loaiza-Pérez A.I. (2003) A role for the aryl hydrocarbon receptor in mediating DNA damage and S phase arrest in MCF-7 cells induced by antitumour benzothiazoles. *Br J Cancer* 88: 599-605.
  47. Bradshaw TD, Chua M-S, Browne HL, Trapani V, Sausville EA, Stevens MFG. (2002) In vitro evaluation of amino acid prodrugs of novel antitumour 2-(4-amino-3-methylphenyl) benzothiazoles. *Br J Cancer* 86: 1348-1354.
  48. Bradshaw TD, Trapani V, Vasselin D, Westwell A. (2002) The aryl hydrocarbon receptor in anticancer drug discovery: friend or foe? *Curr Pharm Des* 8: 2475-2490.
  49. Loaiza-Pérez AI, Trapani V, Hose CD, Singh SS, Trepel JB, Stevens MFG, Bradshaw TD, Sausville EA. (2002) The aryl hydrocarbon receptor mediates sensitivity of MCF-7 breast cancer cells to the antitumour agent 2-(4-amino-3-methylphenyl)benzothiazole. *Mol Pharmacol* 61: 13-19.
  50. Hutchinson I, Chua M-S, Browne HL, Trapani V, Bradshaw TD, Westwell AD, Stevens MFG. (2001) Antitumour benzothiazoles. 14. Synthesis and in vitro biological properties of fluorinated 2-(4-aminophenyl)benzothiazoles. *J Med Chem* 44: 1446-1455.

## COMUNICAZIONI ORALI SU INVITO

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1. Magnesium for a healthy gut microbiota. II Workshop on Magnesium in Neuroscience, online virtual meeting, 28-29 May 2021.
2. Dietary magnesium alleviates murine colitis through upregulation of TRPM6 and modulation of intestinal microbiota. XV International Magnesium Symposium, Bethesda, USA, 20-22 March 2019.
3. Magnesium and muscle function, Magnesium in Neuroscience, Krakow, Poland, 20-21 April 2018.
4. Magnesium modulates doxorubicin activity through drug lysosomal sequestration and trafficking, XIV International Magnesium Symposium, Rome, 23-24 June 2016.
5. Magnesium modulates doxorubicin activity through drug lysosomal sequestration and trafficking. Magnesium in Translational Medicine, Liptovsky Mikulas, Slovakia, 19-20 February 2016.
6. Intracellular magnesium measurements by live cell imaging: challenges and promises. Magnesium in Translational Medicine, Smolenice, Slovakia, 11-15 May 2014.
7. Expression of TRPM6 and MRS2 magnesium channels in normal and tumor mammary epithelial cells. 2nd International Meeting "Ion Channels and Cancer", Florence, 3-6 March 2010.
8. The aryl hydrocarbon receptor mediates sensitivity of MCF-7 breast cancer cells to the antitumour agent 2-(4-amino-3-methylphenyl)benzothiazole. 23rd Meeting of EORTC-PAMM Group, Copenhagen, Denmark, 23-26 January 2002.

## CAPITOLI IN LIBRI

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1. R. De Maria, V. Trapani. La rivoluzione digitale per un sistema globale di gestione della salute. 13° rapporto FAVO sulla condizione assistenziale dei malati oncologici. 2021
2. V. Trapani, F.I. Wolf. Tumor development through the Mg<sup>2+</sup>-nifying glass. In: Essential and non-essential metals. Carcinogenesis, prevention and cancer therapeutics, eds. Mudipalli & Zelikoff, pp 19-38, Humana Press, 2017.
3. V. Trapani, L. Mastrototaro, F.I. Wolf. Magnesium and the Yin-Yang interplay in apoptosis. In: Magnesium in the central nervous system, eds. Vink & Nechifor, pp 85-98, University of Adelaide Press, 2011.

## ABSTRACTS

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1. Trapani V, Wolf FI. Magnesium for a healthy gut microbiota. II Workshop on Magnesium in Neuroscience. Online virtual meeting, 28-29 Maggio 2021.
2. Trapani V., Petito V., Quagliariello A., Pietropaolo G., Reddel S., Del Chierico F., Putignani L., Gasbarrini A., Scaldaferri F., Wolf FI. Dietary magnesium alleviates murine colitis through upregulation of TRPM6 and modulation of intestinal microbiota. XV International Magnesium Symposium "Magnesium in Health and Disease", Bethesda, USA, 20-22 Marzo 2019.
3. Pietropaolo G., Pugliese D., Luongo F., Wolf FI., Trapani V. Cetuximab impacts on magnesium uptake in the colon. XV International Magnesium Symposium "Magnesium in Health and Disease", Bethesda, USA, 20-22 Aprile 2019.
4. Petito C, Petito V, Ferrarese D, Graziani C, Trapani V, Lopetuso LR, Rizzatti G, Laterza L, Puca P, Presutti S, Giorgio ME, Wolf F, Camardese G, Gasbarrini A, Scaldaferri F.

- Behavioural disorders and magnesemia in Inflammatory Bowel Disease (IBD): a proof of concept study. UEG Week 2018, Vienna, Austria, 20-24 Ottobre, 2018.
5. Scaldaferri F, Petito V, Ferrarese D, Petito C, Trapani V, Camardese G, Gasbarrini A, Wolf FI. Low levels of magnesemia induce psychiatric comorbidity in patients with inflammatory bowel disease. Magnesium in Neuroscience workshop, Cracovia, Polonia, 20-21 Aprile 2018.
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