

PERSONAL INFORMATION

Francesca Borrelli



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Sex Female | Date of birth 19/12/1970 | Nationality Italian

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	☒ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

15/10/2015-present

Associate professor (sector 05/G1 - Pharmacology, clinical pharmacology and pharmacognosy)

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy.
<http://www.farmacia.unina.it/>

Head of a research group involved in cancer drug discovery. Key research techniques include 2D/3D in vitro models (cell models with stable deletion or overexpression; organoids); chemically or genetically induced mouse models of cancer.

Teaching; academic advisor of BSc, MA and PhD students

01/10/2002-14/10/2015

Researcher assistant (Pharmaceutical Biology)

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy.
<http://www.farmacia.unina.it/>

Teaching and research; project management; academic advisor of BSc

EDUCATION AND TRAINING

1998-2001

PhD in Pharmaceutical Sciences

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy
Acquisition of the main innovative techniques of pharmacology and molecular biology

1995-1997

M. Phil in Official Plants

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy
Acquisition of the main techniques of pharmacology and molecular biology

1989-1994

Degree in Pharmacy

Department of Pharmacy, University of Naples Federico II, Via D. Montesano 49, 80131 Naples, Italy
Acquisition of the main techniques of pharmacology and molecular biology

WORK ACTIVITIES

Awards

- "N. Pascale" award for Scientific activity (2005)
- "British Journal of Pharmacology Editors" award for best performance (2017).
- British Journal of Pharmacology (IF: 9.473) (Editorial board member, 2016-today)
- Phytotherapy Research (IF: 6.388) (editorial board member, 2012-2017).
- Phytotherapy Research (IF: 6.388) (Reviews Editor, 2018-today).
- Frontiers in Pharmacology (IF: 5.988) (Review Editor, 2010-today)
- Frontiers in Pharmacology (IF: 5.988) (Associate Editor, 2019-today).
- PLOS ONE (IF: 3.752) (Academic Editor, 2014-today).
- ECAM (IF: 2.650) (editorial board member, 2010-today).

Editorial activity

Invited presentations

- 2021: 2° Convegno Nazionale di Cannabis Terapeutica. Alla riscoperta dei molteplici usi della canapa nel terzo millennio" ONLINE CONGRESS. 6-7 February.
- 2019: 20th Nutrition and Phytotherapy Conference. Brussels (Belgium), 16 March.
- 2019: Joint PharmAdriatic Workshop. "From plant to Phytotherapy". Chieti (Italy), 5-6 March.

- 2017: 3rd International Conference on Natural Products Utilization: from Plants to Pharmacy Shelf (ICNPU-2017). Bansko, Bulgaria 18-21 October
- 2017: Smart Chem. Farmaci naturali per il benessere dell'uomo. Catania, 2-3 February
- 2013: "1° Congresso Nazionale sull'Aloe". Isernia, 20-21 April, Italy
- 2012: 9th European Congress on menopause and andropause. Athens (Greece), 28-31 March
- 2008: 68th World Congress of Pharmacy and Pharmaceutical Sciences, Basel (Swiss), 29 August-4 September.
- 2008: 2° Congresso Intersocietà sulle Piante Medicinali. Salerno, 25- 27 June.
- 2007: Aspetti critici del controllo qualità delle piante officinali e del prodotto finito. Risvolti salutistici, Torino, 12 November.
- 2007: Le medicine non Convenzionali: validità, attualità e potenzialità di impiego. Naples, 3-4 November.

- Grants**
- Produzione di integratori funzionali per uso umano ed animale da biomolecole del latte. MISE. Accordi per l'Innovazione. Decreto Ministeriale 2 Agosto 2019. Intervento a sostegno di progetti di R&S nei settori applicativi "Fabbrica intelligente", "Agrifood", "Scienze della vita" e "Calcolo ad alte prestazioni" (2021-2023). (Participant).
 - Ottimizzazione delle tecniche di allevamento e dei processi produttivi del settore lattiero-caseario bufalino e del vino per la produzione di alimenti funzionali. MISE. Programma Operativo Nazionale «Imprese e Competitività» 2014-2020 FESR (2019-2021). (Participant).
 - Role of palmitoylethanolamide and its hydrolytic enzyme n-acylethanolamine hydrolyzing acid amidase in inflammation-driven colon carcinogenesis". Programma di Finanziamento della Ricerca di Ateneo. Università degli Studi di Napoli Federico II. Annualità 2016. (Principal Investigator).

- Patents**
- 1) Title: PHYTOCANNABINOIDS FOR USE IN THE TREATMENT OF INTESTINAL INFLAMMATORY DISEASES
Patent number: US9421187

Abstract: The present invention relates to one or more of the phytocannabinoids tetrahydrocannabivarin (THCV); cannabigerol (CBG); cannabichromene (CBC); and cannabidivarin (CBDV) for use in the treatment of intestinal inflammatory diseases. Preferably the intestinal inflammatory disease is either ulcerative colitis or Crohn's disease.

Type: Grant

Filed: November 21, 2012

Date of Patent: August 23, 2016

Assignee: GW Pharma Limited

Inventors: Angelo Antonio Izzo, Francesca Borrelli, Stephen Wright

- 2) Title: PHYTOCANNABINOIDS IN THE TREATMENT OF CANCER

Patent number: US2018/0042975 A1

Abstract: This invention relates to the use of phytocannabinoids, either in an isolated form or in the form of a botanical drug substance (BDS) in the treatment of cancer. Preferably the cancer to be treated is cancer of the prostate, cancer of the breast or cancer of the colon.

Type: Grant

Filed: June 12, 2017

Date of Patent: February 15, 2018

Assignees: GW Pharma Limited, Otsuka Pharmaceutical Co., Limited

Inventors: Daniela Parolaro, Paola Massi, Angelo Antonio Izzo, Francesca Borrelli, Gabriella Aviello, Vincenzo Di Marzo, Luciano De Petrocellis, Aniello Schiano Moriello, Alessia Ligresti, Ruth Alexandra Ross, Lesley Ann Ford, Sharon Anavi-Goffer, Manuel Guzman, Guillermo Velasco, Mar Lorente, Sofia Torres, Tetsuro Kikuchi, Geoffrey Guy, Colin Stott, Stephen Wright,

Alan Sutton, David Potter, Etienne De Meijer

- 3) Title: PHYTOCANNABINOIDS IN THE TREATMENT OF GLIOMA

Patent number: GB2478595B

Abstract: This invention relates to the use of phytocannabinoids, either in an isolated form or in the form of a botanical drug substance (BDS) in the treatment of glioma.

Type: Grant

Filed: November 7 , 2016

Date of Patent: April 4, 2018

Assignees: GW Pharma Limited

Inventors: Parolaro DanielaMassi PaolaAntonio Izzo AngeloBorelli FrancescaAviello GabriellaDi Marzo VincenzoDe Petrocellis LucianoSchiano Moriello AnielloLigresti AlessiaAlexandra Ross RuthAnn Ford LesleyAnavi-Goffer SharonGuzman Pastor ManuelVelasco GuillermoLorente MarTorres SofiaKikuchi TetsuroWilliam Guy GeoffreyStott ColinWright StephenSutton AlanPotter DavidDe Meijer Etienne

4) Title: N-PALMITOYL-ETHANOLAMIDE FOR USE IN THE PREVENTION OF COLORECTAL CARCINOMA

Patent number: CA3146324A1

Abstract: The present invention relates to the use of N-palmitoylethanolamide in the context of an antitumor therapy. In particular, the present invention relates to Palmitoylethanolamide for use in the prevention of colorectal carcinoma, adenomatous polyps and/or pre-neoplastic ACF lesions. Furthermore, the invention relates to palmitoylethanolamide for use in the antineoplastic therapy of colorectal carcinoma, in which said palmitoylethanolamide exerts a selective antiproliferative action on tumor cells and not on healthy cells.

Type: Grant

Filed: January 20, 2022

Date of Patent: September 18, 2022

Assignees: EPITECH GROUP S.P.A.)

Inventors: Francesco Della Valle, Maria Federica Della Valle, Chiara Gormiero, Francesca Borrelli, Raffaele Capasso, Angelo Antonio Izzo, Ester Pagano, Barbara Romano.Co-inventor of 4 patents: **1)**US9421187B2; date: 23.08.2016. **2)**US20180042975A1; date: 15.2.2018. **3)**GB2478595B; date: 04.04.2018. **4)**102021000006494; date: 18.03.2021.

Collaborations

International collaborations

- i) Department of Surgery, Guy's, King's and St Thomas Schools of Medicine and Dentistry, London, UK (Prof. I. A. Tavares). Tale collaborazione ha prodotto 3 pubblicazioni di cui 2 articoli come primo autore e/o corresponding Author (si veda allegato: Collaborazioni internazionali).
- ii) Department of Complementary Medicine, Peninsula Medical School, University of Exeter and Plymouth, Exeter, UK (Prof. E Ernst). Tale collaborazione ha prodotto 10 pubblicazioni di cui 7 articoli, come primo/ultimo e/o corresponding Author (si veda allegato: Collaborazioni internazionali).
- iii) Department of Pharmacy, Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia (Prof. Natasa Milic). Tale collaborazione ha prodotto 8 pubblicazioni di cui 5 articoli come primo/ultimo e/o corresponding Author (si veda allegato: Collaborazioni internazionali).
- iv) Department of Pharmacognosy, School of Pharmacy, University of Mississippi, University, MS 38677-1848, USA (Prof. J. K. Zjawiony). Tale collaborazione ha prodotto 4 pubblicazioni (si veda allegato: Collaborazioni internazionali).
- v) School of Medical Sciences, Institute of Medical Sciences, University of Aberdeen, Aberdeen, Scotland, UK (Prof. R. Pertwee). Tale collaborazione ha prodotto 3 pubblicazioni di cui 1 articolo come ultimo e corresponding Author (si veda allegato: Collaborazioni internazionali).
- vi) Department of Cardiology, Guang'anmen Hospital, China Academy of Chinese Medical Sciences, Beijing 100053, China (Prof. X. Xiong). Tale collaborazione ha prodotto 2 pubblicazioni (si veda allegato: Collaborazioni internazionali).
- vii) Centre de recherche de l'Institut universitaire de cardiologie et de pneumologie de Québec (IUCPQ), and Département de médecine, Faculté de Médecine, Université Laval, Québec, QC, Canada.

National collaborations

- i) Vincenzo Di Marzo - Istituto di Chimica Biomolecolare, Consiglio Nazionale delle Ricerche, Pozzuoli, Italy, Endocannabinoid Research Group (documentata da 24 pubblicazioni).

- ii) Pierangelo Orlando - Istituto di Biochimica delle Proteine, Napoli; Institute of Applied Sciences & Intelligent Systems, Consiglio Nazionale delle Ricerche, Pozzuoli, Italy (documentata da 15 pubblicazioni).
- iii) Alessandra Russo - Dipartimento di Scienze del Farmaco, Sezione Biochimica, Università di Catania, Catania, Italia (documentata da 11 pubblicazioni).
- iv) Giovanni Aprea - Dipartimento di Medicina Clinica e Chirurgia, Università degli Studi di Napoli Federico II, Napoli, Italia (documentata da 3 pubblicazioni).
- v) Francesco Maiello - Azienda Sanitaria Locale Napoli 1 Centro | ASL Napoli • Anatomia Patologica - P.O. dei Pellegrini (documentata da 4 pubblicazioni).
- vi) Vincenzo Altieri - Dipartimento di Medicina, Chirurgia e Odontoiatria "Scuola Medica Salernitana", Università degli Studi di Salerno, Salerno, Italia (documentata da 2 pubblicazioni).
- vii) Gabriella Mazzanti - Dipartimento di Fisiologia e Farmacologia, Sapienza, Università di Roma, Roma, Italia (documentata da 1 pubblicazione).
- viii) Federica Pessina - Dipartimento Medicina molecolare e dello sviluppo, Università degli Studi di Siena, Siena, Italia (documentata da 1 pubblicazione).
- ix) Lucia Morbidelli – Dipartimento di Scienze della Vita. Università di Siena, Siena (documentata da 1 pubblicazione).
- x) Paola Stiuso - Department of Medicina di Precisione, Università della Campania "Luigi Vanvitelli", Napoli (documentata da 2 pubblicazione).

ADDITIONAL INFORMATION

Publications

Number of articles published in extenso in peer-reviewed international journals: 155
H-index: 55; total number of citations: 8887

Research period abroad

- 2003: University of Lubeck;
- 2001: Universities of Exeter and Plymouth, Exeter, UK;
- 1998-1999: King's College Hospital Medical School, London, UK.

Naples 05.05.2023

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