

Curriculum Vitae Europass



Personal Informations

First Name(s) / Surname(s) **Barbara Parrino**
 Address(es)
 Phone number(s)
 E-mail **barbara.parrino@unipa.it**
 Nationality **Italian**
 Date of birth [REDACTED]
 Sex [REDACTED]

Work experience

Dates	<i>November 2020-current</i>
Position held	Associate Professor S.D. 03/D1 S.S:D. CHIM/08)
Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>November 2017-November 2020</i>
Position held	Researcher (t.d. B S.D. 03/D1 S.S:D. CHIM/08)
Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>May 2017-July 2017</i>
Position held	Occasional collaboration contract for research support activities concerning "Synthesis of antitumor heterocycles of marine alkaloids"
Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>May 2016-May 2017</i>
Position held	Postdoc research fellow "Synthesis And structural changes of biopolymers for preparing pharmaceuticals for the eye posterior segment"

Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>October 2015-current</i>
Position held	Tutor for additional training courses in Chemistry
Employer's name	University of Palermo
Sector	Organic and Inorganic Chemistry
Dates	<i>February 2014-current</i>
Position held	Teaching Assistant in Medicinal Chemistry
Employer's name	University of Palermo
Sector	Organic and Inorganic Chemistry
Dates	<i>July 2015-May 2016</i>
Position held	Postdoc research fellow "Synthesis of new Nortopsentin analogues with potential antitumor activity"
Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>July 2014-july 2015</i>
Position held	Postdoc bursary
Employer's name	University of Palermo
Sector	Medicinal Chemistry
Dates	<i>October 2013- September 2014</i>
Position held	Tutor for additional training courses in Chemistry
Employer's name	University of Palermo
Sector	Organic and Inorganic Chemistry
Dates	<i>May 2013-July 2014</i>
Position held	Postdoc fellow "Indole-thiazolyl-azaindoles derivative as new Kinases inhibitors"
Employer's name	University of Palermo
Sector	Organic and Inorganic Chemistry
Dates	<i>November 2012-October 2013</i>
Position held	Tutor for additional training courses in Chemistry
Employer's name	University of Palermo
Sector	Organic and Inorganic Chemistry
Dates	<i>November 2012-May 2013</i>

Position held	Postdoc fellow “
Employer's name	University of Palermo via Archirafi 32, Palermo
Sector	Reactivity of new marine compounds
Dates	<i>January 2012-October 2012</i>
Position held	Volunteer Research
Employer's name	University of Palermo via Archirafi 32, Palermo
Dates	<i>01 March 2009-31 December 2011</i>
Position held	PhD student
Main activities	Research chemist
Employer's name	University of Palermo via Archirafi 32, Palermo Tutor: Prof. G. Cirrincione
Dates	<i>May 2011-September 2011</i>
Position held	PhD visiting student
Main activities	Research chemist
Employer's name	University of Nottingham (UK) Tutor: Prof. C.J. Moody
Sector	Synthesis of natural compounds
Dates	<i>January 2010-April 2010</i>
Position held	PhD visiting student
Main activities	Research chemist
Employer's name	University Semmelweis of Budapest (Hungary) Tutor: Prof. P. Matyus
Sector	Molecular modeling studies
Dates	<i>May 2008-February 2009</i>
Position held	Pharmacist
Main activities	Pharmacist
Employer's name	L'Angolo della salute s.r.l. Viale dell'Olimpo 24/26 Palermo
Dates	<i>July 2008- December 2008</i>
Position held	Pharmacist
Main activities	Pharmacist
Employer's name	Parafarmacia Farmaci 01 s.r.l. Corso Umberto I, 619 Ficarazzi (Palermo)
Sector	Pharmaceutical
Dates	<i>March 2008-April 2008</i>
Position held	Pharmacist
Main activities	Pharmacist
Employer's name	Parafarmacia Farmaci 01 s.r.l. Corso Umberto I, 619 Ficarazzi (Palermo)
Sector	Pharmaceutical

Dates	October 2006- March 2007
Position held	Trainee Pharmacist
Main activities	Pharmacist
Employer's name	Hospital La Fe, Valencia (Spain)
Sector	Pharmaceutical
Education	
Date	15 March 2012
Qualifications awarded	PhD in Medicinal Sciences, Doctor Europaeus in Pharmaceutical Sciences
Skills acquired	Medicinal chemistry research; PhD thesis: Synthesis and antitumor activity of new tetracyclic systems containing the pyrrole ring tutor Prof. G. Cirrincione
Education or training organisation's name	University of Palermo
Sector	CHIM/08
Date	June 2008
Qualifications awarded	Dele Certification level intermediate
Skills acquired	Spanish
Education or training organisation's name	Istituto Cervantes, Palermo
Level	B2
Date	October 2007
Qualifications awarded	Chimica e Tecnologia Farmaceutiche Degree Thesis: "Reazione di 1,2 diidro-2-solfoniliminopirimidine con amine" Tutors Prof. G.Cirrincione, Prof. J. Sepulveda (110/110 cum laude)
Skills acquired	Medicinal Chemistry. Organic Chemistry
Education or training organisation's name	University of Palermo
Sector	14 /LS
Date	July 2006-September 2006
Qualifications awarded	Spanish course
Skills acquired	Spanish
Education or training organisation's name	Scuola Eurolanguage, Palermo
Date	June 2006
Qualifications awarded	ERASMUS fellow at University of Valencia (Spain)
Skills acquired	Organic Chemistry
Education or training organisation's name	University of Palermo
Personal skills	
Mother tongue(s)	Italian
Other language(s)	English, Spanish
Technical skills	Spectrometry, laboratory devices

Computer skills	Office, Chem Office, Schrodinger suite
Driving licence	B
Projects	• PRIN 2010-2011 - " Sistemi naturali e sintetici con attività antineoplastica" • Pon02_00451_3361785, DI.ME.SA "Estrazione di Betaglucani dall'orzo" • PRIN 2017 "Development of natural and synthetic compounds as kinases inhibitors targeting cancer cells and cancer stem cells" • PON ARS01_00432 Progetto "PROGEMA – Progetti Green per l'Estrazione di principi attivi e la depurazione di Matrici di scarto e non" – 2018
Publications	1. Cascioferro, S., Parrino, B., Carbone, D., Pecoraro, C., Diana, P. Novel strategies in the war against antibiotic resistance Future Medicinal Chemistry, 2021, 13, 529–531 2. Carbone, D., Parrino, B., Cascioferro, S., Pecoraro, C., Giovannetti, E., Di Sarno, V., Musella, S., Auriemma, G., Cirrincione, G., Diana, P. 1,2,4-Oxadiazole Topsentin Analogs with Antiproliferative Activity against Pancreatic Cancer Cells, Targeting GSK3β Kinase ChemMedChem 2021, 13, 529-531. 3. Lombino, J., Gulotta, M.R., De Simone, G., Mekni, N., De Rosa, M., Carbone, D., Parrino, B., Cascioferro, S.M., Diana, P., Padova, Perricone, U. Dynamic-shared Pharmacophore Approach as Tool to Design New Allosteric PRC2 Inhibitors, Targeting EED Binding Pocket Molecular Informatics, 2021, 40, 2000148 4. Cascioferro, S., Carbone, D., Parrino, B., Pecoraro, C., Giovannetti, E., Cirrincione, G., Diana, P. Therapeutic Strategies To Counteract Antibiotic Resistance in MRSA Biofilm-Associated Infections ChemMedChem, 2021, 16(1), pp. 65–80 5. Parrino, B., Carbone, D., Cascioferro, S., Pecoraro, C., Giovannetti, E., Deng, D., Di Sarno, V., Musella, S., Auriemma, G., Cusimano, M.G., Schillaci, D., Cirrincione, G., Diana, P. 1,2,4-Oxadiazole topsentin analogs as staphylococcal biofilm inhibitors targeting the bacterial transpeptidase sortase A. Eur. J. Med. Chem., 2021, 209, 112892 6. Parrino, B., Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P. Eight-membered heterocycles with two heteroatoms in a 1,3-relationship of interest in medicinal chemistry Advances in Heterocyclic Chemistry, 2021 7. Carbone A., Cascioferro, S., Parrino, B., Carbone, D., Pecoraro, C., Schillaci, D., Cusimano, M.G., Cirrincione, G., Diana, P. Thiazole analogues of the marine alkaloid nortopsentin as inhibitors of bacterial biofilm formation Molecules, 2021, 26, 81 8. Parrino, B., Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P. Eight-membered heterocycles with two heteroatoms in a 1,2-relationship of interest in medicinal chemistry, Adv. Heterocycl. Chem. 2020, doi:10.1016/bs.aihch.2020.08.002 9. Randazzo, O., Papini, F., Mantini, G., Gregori, A., Parrino, B., Liu, D.S.K., Cascioferro, S., Carbone, D., Peters, G.J., Frampton, A.E., Garajova, I., Giovannetti, E. "Open sesame?": Biomarker status of the human equilibrative nucleoside transporter-1 and molecular mechanisms influencing its expression and activity in the uptake and cytotoxicity of gemcitabine in pancreatic cancer. Cancers, 2020, 12, 1–20, 3206 10. Li Petri, G., Pecoraro, C., Randazzo, O., Zoppi, S., Cascioferro, S.M., Parrino, B., Carbone, D., El Hassouni, B., Cavazzoni, A., Zaffaroni, N., Cirrincione, G., Diana, P., Peters, G.J., Giovannetti, E. New Imidazo[2,1-b][1,3,4]Thiadiazole Derivatives Inhibit FAK Phosphorylation and Potentiate the Antiproliferative Effects of Gemcitabine Through Modulation of the Human Equilibrative Nucleoside Transporter-1 in Peritoneal Mesothelioma Anticancer Res. 2020, 40, 4913-4919 11. Li Petri, G., El Hassouni, B., Sciarillo, R., Funel, N., Mantini, G., Zeeuw van der Laan, E.A., Cascioferro, S., Avan, A., Zucali, P.A., Zaffaroni, N., Lagerweij, T., Parrino, B., Smid, K., Deraco, M., Granchi, C.I., Braczko, A., Smolenski, R.T., Matherly, L.H., Jansen, G., Assaraf, Y.G., Impact of hypoxia on chemoresistance of mesothelioma mediated by the proton-coupled folate transporter, and preclinical activity of new anti-LDH-A compounds Br. J. Cancer 2020, 123, 644-656 12. Cascioferro, S. Parrino, B., Carbone, D., Schillaci, D., Giovannetti, E., Cirrincione, G., Diana,

- P. Thiazoles, Their Benzofused Systems, and Thiazolidinone Derivatives: Versatile and Promising Tools to Combat Antibiotic Resistance *J. Med. Chem.* **2020**, 63, 7923–7956
13. **Parrino, B.**, Carbone, D., Cirrincione, G., Diana, P., Cascioferro, S. Inhibitors of antibiotic resistance mechanisms: clinical applications and future perspectives *Fut. Med. Chem.* **2020**, 12, 357–359
 14. Cascioferro, S., Petri, G.L., **Parrino, B.**, Carbone, D., Funel, N., Bergonzini, C., Mantini, G., Dekker, H., Geerke, D., Peters, G.J., Cirrincione, G., Giovannetti, E., Diana, P. Imidazo[2,1-b][1,3,4]thiadiazoles with antiproliferative activity against primary and gemcitabine-resistant pancreatic cancer cells *Eur. J. Med. Chem.* **2020**, 189, 112088
 15. Cascioferro, S., Petri, G.L., **Parrino, B.**, El Hassouni, B., Carbone, D., Arizza, V., Perricone, U., Padova, A., Funel, N., Peters, G.J., Cirrincione, G., Giovannetti, E., Diana, P. 3-(6-phenylimidazo [2,1-b][1,3,4]thiadiazol-2-yl)-1H-indole derivatives as new anticancer agents in the treatment of pancreatic ductal adenocarcinoma *Molecules* **2020**, 25, 329
 16. **Parrino, B.**, Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P. Eight-membered heterocycles with two heteroatoms in a 1,5-relationship of interest in medicinal chemistry, *Adv. Heterocycl. Chem.* **2020**, 132, 135–239
 17. Salvati E., Ciglia E., Sommella E., Montella F., Bertamino, A., Ostacolo C., **Parrino B.**, Rubino R., Vecchione C., Puca A., Novellino E., Campiglia, P. Immunomodulatory activity of Humulus lupulus bitter acids fraction: Enhancement of natural killer cells function by NKp44 activating receptor stimulation *J. Funct. Foods* **2019**, 61, 103469
 18. Attanzio, A., Diana, P., Barraja, P., Carbone, A., Spanò, V., **Parrino, B.**, Cascioferro, S.M., Allegra, M., Cirrincione, G., Tesoriere, L., Montalbano, A. Quality, functional and sensory evaluation of pasta fortified with extracts from *Opuntia ficus-indica* cladodes. *J. Sci. Food Agric.* **2019**, 99(9), 4242–4247
 19. El Hassouni, B., Li Petri, G., Liu, D.S.K., Cascioferro, S., **Parrino, B.**, Hassan, W., Diana, P., Ali, A., Frampton, A.E., Giovannetti, E. Pharmacogenetics of treatments for pancreatic cancer. *Expert Opin. Drug Metab. Toxicol.* **2019**, 15(6), 437–447
 20. Cascioferro, S. **Parrino, B.**, Li Petri, G. Cusimano, M.G., Schillaci, D., Di Sarno, V., Musella, S., Giovannetti, E., Cirrincione, G., Diana, P. 2,6-Disubstituted imidazo[2,1-b][1,3,4]thiadiazole derivatives as potent staphylococcal biofilm inhibitors. *Eur. J. Med. Chem.* **2019**, 200–2010
 21. Cusimano, M.G., Spinello, A., Barone, G., Schillaci, D., Cascioferro, S., Magistrato, A., **Parrino, B.**, Arizza, V., Vitale, M. A synthetic derivative of antimicrobial peptide holothuridin 2 from mediterranean sea cucumber (*Holothuria tubulosa*) in the control of *Listeria monocytogenes*. *Mar. Drugs* **2019**, 17(3), 159
 22. Li Petri, G., Cascioferro, S., El Hassouni, B., Carbone, D., **Parrino, B.**, Cirrincione, G., Peters, G.J., Diana, P., Giovannetti, E. Biological Evaluation of the Antiproliferative and Anti-migratory Activity of a Series of 3-(6-Phenylimidazo[2,1-b][1,3,4]thiadiazol-2-yl)-1H-indole Derivatives against Pancreatic Cancer Cells. *Anticancer Res.* **2019**, 39, 3615–3620
 23. Frasson, I., Spanò, V., Di Martino, S., Nadai, M., Doria, F. **Parrino, B.**, Carbone, A., Cascioferro, S.M., Diana, P., Cirrincione, G., Freccero, M., Barraja, P., Richter, S.N., Montalbano, A. Synthesis and photocytotoxic activity of [1,2,3]triazolo[4,5-h][1,6]naphthyridines and [1,3]oxazolo[5,4-h][1,6]naphthyridines *Eur. J. Med. Chem.* **2019**, 176–193
 24. Cascioferro, S., Attanzio, A., Sarno, V.D., Musella, S., Tesoriere, L., Cirrincione, G., Diana, P., **Parrino, B.** New 1,2,4-oxadiazole nortopsentin derivatives with cytotoxic activity *Mar. Drugs* **2019**, 17, 35
 25. **Parrino B.**, Schillaci, D., Carnevale, I., Giovannetti, E., Diana, P., Cirrincione, G., Cascioferro, S. Synthetic small molecules as anti-biofilm agents in the struggle against antibiotic resistance *Eur. J. Med. Chem.* **2019**, 161, 154–178
 26. Pepe, G., Sommella, E., Cianciarulo, D., Ostacolo, C., Manfra, M., Di Sarno, V., Musella, S., Russo, M., Messori, A., **Parrino, B.**, Bertamino, A., Autore, G., Marzocco, S., Campiglia, P. Polyphenolic extract from tarocco (*Citrus sinensis* L. osbeck) clone “lempso” exerts anti-inflammatory and antioxidant effects via NF- κ B and Nrf-2 activation in murine macrophages. *Nutrients* **2018**, 10, 1961
 27. **Parrino, B.**, Ullo, S., Attanzio, A., Cascioferro, S., Spanò, V., Carbone, A., Montalbano, A., Barraja, P., Cirrincione, G., Tesoriere, L., Diana, P. Synthesis of 5H-pyrido[3,2-b]pyrrolizin-5-one tripentone analogs with antitumor activity *Eur. J. Med. Chem.* **2018**, 158, 236–246
 28. Carbone, A., **Parrino, B.**, Cusimano, M.G., Spanò, V., Montalbano, A., Barraja, P., Schillaci,

- D., Cirrincione, G., Diana, P., Cascioferro, S. New thiazole nortopsentin analogues inhibit bacterial biofilm formation *Mar. Drugs* **2018**, 16, 274
29. **Parrino, B.**, Diana, P., Cirrincione, G., Cascioferro, S. Bacterial biofilm inhibition in the development of effective anti-virulence strategy *Open Medicinal Chemistry Journal* **2018**, 12, 84-87
 30. Li Petri, G., Cascioferro, S., **Parrino, B.**, Peters, G.J., Diana, P., Giovannetti, E. Proton-coupled folate transporter as a biomarker of outcome to treatment for pleural mesothelioma *Pharmacogenomics* **2018**, 19, 811-814
 31. Perricone, U., Gulotta, M.R., Lombino, J., **Parrino, B.**, Cascioferro, S., Diana, P., Cirrincione, G., Padova, A. An overview of recent molecular dynamics applications as medicinal chemistry *MedChemComm* **2018**, 9(6), 920-936
 32. Cascioferro S., **Parrino B.**, Spanò V., Carbone A., Montalbano A., Barraja P., Diana, P., Cirrincione G. 1,3,5-Triazines: A promising scaffold for anticancer drugs development *Eur. J. Med. Chem.* **2017**, 142, 523-549
 33. Cascioferro S., **Parrino B.**, Spanò V., Carbone A., Montalbano A., Barraja P., Diana, P., Cirrincione G. An overview on the recent developments of 1,2,4-triazine derivatives as anticancer compounds *Eur. J. Med. Chem.* **2017**, 142, 328-375
 34. **Parrino B.**, Ullo S., Attanzio A., Spanò V., Cascioferro S., Montalbano A., Barraja P., Tesoriere L., Diana, P., Cirrincione G. New tripentone analogs with antiproliferative activity *Molecules* **2017**, 22, 2005
 35. Schillaci D., Spanò V., **Parrino B.**, Carbone A., Montalbano A., Barraja P., Diana, P., Cirrincione G., Cascioferro S. Pharmaceutical Approaches to Target Antibiotic Resistance Mechanisms *J. Med. Chem.* **2017**, 60, 8268-8297
 36. Cascioferro S., **Parrino B.**, Spanò V., Carbone A., Montalbano A., Barraja P., Diana, P., Cirrincione G. Synthesis and antitumor activities of 1,2,3-triazines and their benzo- and heterofused derivatives *Eur. J. Med. Chem.* **2017**, 142, 74-86
 37. **Parrino B.**, Attanzio A., Spanò V., Cascioferro S., Montalbano A., Barraja P., Tesoriere L., Diana P., Cirrincione G., Carbone A. Synthesis, antitumor activity and CDK1 inhibitor of new thiazole nortopsentin analogues *Eur. J. Med. Chem.* **2017**, 138, 371-383
 38. Balogh B., Carbone A., Spanò V., Montalbano A., Barraja P., Cascioferro S., Diana P., **Parrino B.** Investigation of Isoindolo[2,1-a]quinoxaline-6-imines as Topoisomerase I Inhibitors With Molecular Modeling Methods *Curr. Comput. Aided Drug Des.* **2017**, 13, 208-221
 39. Spanò V., Giallombardo D., Cilibrasi V., **Parrino B.**, Carbone A., Montalbano A., Frasson I., Salvador A., Richter S.N., Doria F., Freccero M., Cascioferro S., Diana P., Cirrincione G., Barraja P. Pyrrolo[3',2':6,7]cyclohepta[1,2-b]pyridines with potent photo-antiproliferative activity *Eur. J. Med. Chem.* **2017**, 128, 300-318
 40. Spanò V., Attanzio A., Cascioferro, S., Carbone, A., Montalbano A., Barraja P., Tesoriere L., Cirrincione G., Diana, P., **Parrino B.** Synthesis and antitumor activity of new thiazole nortopsentin analogs *Mar. Drugs* **2016**, 14, 14120226
 41. Spanò V., Pennati M., **Parrino B.**, Carbone A., Montalbano A., Lopercolo A., Zucco V., Cominetti D., Diana, P., Cirrincione G., Zaffaroni N., Barraja, P. [1,2]Oxazolo[5,4-e]isoindoles as promising tubulin polymerization inhibitors *Eur. J. Med. Chem.* **2016**, 124, 840-851
 42. Spanò V., Frasson, I., Giallombardo D., Doria F., **Parrino B.**, Carbone A., Montalbano A., Nadai M., Diana P., Cirrincione G., Freccero M., Richter S.N., Barraja P. Synthesis and antiproliferative mechanism of action of pyrrolo[3',2':6,7] cyclohepta[1,2-d]pyrimidin-2-amines as singlet oxygen photosensitizers *Eur. J. Med. Chem.* **2016**, 123, 447-461
 43. Montalbano A., Tesoriere L., Diana P., Barraja P., Carbone A., Spanò V., **Parrino B.**, Attanzio A., Livrea M.A., Cascioferro S., Cirrincione G. Quality characteristics and in vitro digestibility study of barley flour enriched ditalini pasta *LWT - Food Science and Technology* **2016**, 72, 223-228
 44. Spanò V., Pennati M., **Parrino B.**, Carbone A., Montalbano A., Cilibrasi V., Zucco V., Lopercolo A., Cominetti D., Diana P., Cirrincione G., Barraja P., Zaffaroni, N. Preclinical Activity of New [1,2]Oxazolo[5,4-e]isoindole derivatives in Diffuse Malignant Peritoneal Mesothelioma *J. Med. Chem.* **2016**, 59, 7223-7238
 45. Spanò V., **Parrino B.**, Carbone A., Montalbano A., Salvador A., Brun P., Vedaldi D., Diana P., Cirrincione G., Barraja P. Pyrazolo[3,4-h]quinolines promising photosensitizing agents in the treatment of cancer *Eur. J. Med. Chem.* **2015**, 102, 334-351
 46. **Parrino B.**, Carbone A., Spanò V., Montalbano A., Giallombardo D., Barraja P., Attanzio A.,

- Tesoriere L., Sissi C., Palumbo M., Cirrincione G., Diana P. Aza-isoindolo and isoindolo-azaquinoxaline derivatives with antiproliferative activity *Eur. J. Med. Chem.* **2015**, 94, 367-377
47. **Parrino B.**, Carbone A., Ciancimino C., Spanò V., Montalbano A., Barraja P., Cirrincione G., Diana P., Sissi C., Palumbo M., Pinato O., Pennati M., Beretta G., Folini M., Matyus P., Balogh B., Zaffaroni N. Water-soluble isoindolo[2,1-*a*]quinoxalin-6-imines: In vitro antiproliferative activity and molecular mechanism(s) of action *Eur. J. Med. Chem.* **2015**, 94, 149-162
 48. **Parrino B.**, Carbone A., Di Vita G., Ciancimino C., Attanzio A., Spanò V., Montalbano A., Barraja P., Tesoriere L., Diana P., Cirrincione G. 3-[4-(1*H*-Indol-3-yl)-1,3-thiazol-2-yl]-1*H*-pyrrolo[2,3-*b*]pyridines, Nortopsentin Analogues with Antiproliferative Activity. *Mar. Drugs* **2015**, 13, 1901-1924
 49. **Parrino B.**, Ciancimino C., Carbone A., Spanò V., Montalbano A., Barraja P., Cirrincione G., Diana P., Synthesis of isoindolo[1,4]benzoxazinone and isoindolo[1,5]benzoxazepine: two new ring systems of pharmaceutical interest *Tetrahedron* **2015**, 71, 7332-7338
 50. Carbone A., **Parrino B.**, Di Vita G., Attanzio A., Spanò V., Montalbano A., Barraja P., Tesoriere L., Diana P., Cirrincione G. Synthesis and antiproliferative activity of thiazolyl-bis-pyrrolo[2,3-*b*]pyridines and indolyl-thiazolyl-pyrrolo[2,3-*c*]pyridines, nortopsentin analogues *Mar. Drugs* **2015**, 13, 460-492
 51. **Parrino B.**, Carbone A., Muscarella M., Spanò V., Montalbano A., Barraja P., Salvador A., Vedaldi D., Cirrincione G., Diana P. 11*H*-pyrido[3',2':4,5]pyrrolo[3,2-*c*]cinnoline and Pyrido[3',2':4,5]pyrrolo[1,2-*c*][1,2,3]benzotriazine: Two new ring systems with antitumor activity *J. Med. Chem.* **2014**, 57, 9495-9511
 52. **Parrino B.**, Spanò V., Carbone A., Barraja P., Diana P., Cirrincione G., Montalbano A. Synthesis of the New Ring System Bispyrido[4',3':4,5]pyrrolo [1,2-*a*:1',2'-*d*]pyrazine and Its Deaza Analogue. *Molecules* **2014**, 19, 13342-13347
 53. Spano V., Montalbano A., Carbone A., **Parrino B.**, Diana P., Cirrincione G., Castagliuolo I., Brun P., Issinger O.G., Tisi S., Prima I., Vedaldi D., Salvador A., Barraja P. Synthesis of a new class of pyrrolo[3,4-*h*]quinazolines with antimitotic activity *Eur. J. Med. Chem.* **2014**, 74, 340-357
 54. **Parrino B.**, Ciancimino C., Sarwade C., Spanò V., Montalbano A., Barraja P., Cirrincione G., Diana P., Carbone A. Syntesis of substituted isoindolo[2,1-*a*]quinoxalin-6-yl-amino and 6-imino-5-yl tiourea derivatives *Arkivoc* **2014**, (v), 384-398
 55. **Parrino B.**, Spanò V., Carbone A., Montalbano A., Barraja P., Diana P., Cirrincione G. 'Interrupted' diazotization of 3-aminoindoles and 3-aminopyrroles. *Tetrahedron* **2014**, 70, 7318-7321.
 56. Carbone A., Pennati M., Barraja P., Montalbano A., **Parrino B.**, Spanò V., Lopercolo A., Sbarra S., Doldi V., Zaffaroni N., Cirrincione G., Diana P. Synthesis and Antiproliferative Activity of Substituted 3[2-(1*H*-indol-3-yl)-1,3-Thiazol-4-yl]-1*H*-Pyrrolo[3,2-*b*]Pyridines, Marine Alkaloid Nortopsentin Analogues *Curr. Med. Chem.* **2014**, 21, 1654-1666
 57. Spanò V., Montalbano A., **Parrino B.**, Diana P., Carbone A., Cirrincione G., Barraja P.. Convenient synthesis of pyrrolo[3,4-*g*]indazole. *Tetrahedron* **2013**, 69, 9839-9847
 58. Carbone A., Pennati M., **Parrino B.**, Lopercolo A., Barraja P., Montalbano A., Spano V., Sbarra S., Doldi V., De Cesare M., Cirrincione G., Diana P., Zaffaroni N. Novel 1*H*-Pyrrolo[2,3-*b*]pyridine Derivative Nortopsentin Analogues: Synthesis and Antitumor Activity in Peritoneal Mesothelioma Experimental Models *J. Med. Chem.* **2013**, 56, 7060-7072
 59. Barraja P., Spanò V., Giallombardo G., Diana P., Montalbano A., Carbone A., **Parrino B.**, Cirrincione G., Synthesis of [1,2]oxazolo[5,4-*e*]indazoles as antitumor agents. *Tetrahedron* **2013**, 69, 6474-6477
 60. Montalbano A., **Parrino B.**, Diana P., Barraja P., Carbone A., Spanò V., Cirrincione G.. Synthesis of the new oligopeptide pyrrole derivative isonetropsin and its one pyrrole unit analogue. *Tetrahedron* **2013**, 69, 2550-2554.
 61. Carbone A., Spanò V., **Parrino B.**, Ciancimino C., Attanasi O.A., Favi G.. A facile synthesis of deaza-analogues of the bis indole marine alkaloid topsentin. *Molecules* **2013**, 18(3), 2518-2527.
 62. Carbone A., **Parrino B.**, Barraja P., Spanò V., Cirrincione G., Diana P., Maier A., Kelter G., Fiebig H-H. Synthesis and antiproliferative activity of 2,5-bis(3'-Indolyl)pyrroles, analogues of the marine alkaloid Nortopsentin. *Mar. Drugs* **2013**, 11, 643-654
 63. Barraja P., Caracausi L., Diana P., Spano V., Montalbano A., Carbone A. , **Parrino B.**,

Patent(s) and Technological Transfer

Invited Presentations

- Cirrincone G. Synthesis and Antiproliferative Activity of the Ring System [1,2]Oxazolo[4,5-g]indole *Chem.Med.Chem* **2012**, 7, 1901-1904
64. Barraja P., Diana P., Spanò V., Montalbano A., Carbone A., **Parrino B.**, Cirrincone G. An efficient synthesis of pyrrolo[3',2':4,5]thiopyrano[3,2-b]pyridin-2-one: a new ring system of pharmaceutical interest *Tetrahedron* **2012**, 68, 5087-5094
 65. Migliara O., Spanò V., **Parrino B.**, Ciancimino C. Synthesis of pyrazolo[4,3-c][1,2,6]benzothiazocine, a new ring system as potent COX inhibitor *Arkivoc* **2012**, (ii), 41-49
 66. Diana P., Carbone A., Barraja P., Montalbano A., **Parrino B.**, Lopercolo A., Pennati M., Zaffaroni N., Cirrincone G. Synthesis and antitumor activity of 3-[2-phenyl-1,3-thiazol-4-yl]-1H-indoles and 3-[2-phenyl-1,3-thiazol-4-yl]-1H-7-azaindoles *Chem.Med.Chem* **2011**, 6, 1300-1309
 67. Diana P., Stagno A., Barraja P., Carbone A., **Parrino B.**, Dall'Acqua F., Vedaldi D., Salvador A., Brun P., Castagliuolo I., Issinger O. G., Cirrincone G. Synthesis of Triazeno-azaindoles a New Class of Triazenes with Antitumor Activity *Chem.Med.Chem* **2011**, 6, 1291-1299
 68. Diana P., Stagno A., Barraja P., Montalbano A., Carbone A., **Parrino B.**, Cirrincone G. Synthesis of the new ring system pyrrolizino[2,3-b]indol-4(5H)-one *Tetrahedron* **2011**, 67, 3374-3379
- Cirrincone G., Diana P., Parrino B., Carbone A., Derivati di chinossalina, metodi per la loro produzione e loro uso come agenti tumorali 2013 RM2013A000588
 - Spin Off MedChemBio Sicily S.R.L.

1. **Parrino B.** MARINE ALKALOID ANALOGS AS VALUABLE TOOLS TO FIGHT CANCER 41st EORTC-PAMM winter meeting, Stoccolma 13-15 Febbraio 2020
2. **Parrino B.** Design, synthesis and antiproliferative activity of pyrido-pyrrolizines, new tripentone analogues XIV National Meeting on Medicinal Chemistry– Nuove Prospettive in Chimica Farmaceutica 10 Università di Perugia, 11-14 Settembre 2016
3. **Parrino B.** Nortopsentin Analogues with Potent Activity against Diffuse Malignant Peritoneal Mesothelioma (DMPM) 2nd EFMC Young Medicinal Chemist Symposium Antwerp 17 Settembre 2015
4. **Parrino B.** New condensed cinnolines and triazine with antitumor activity. XIII National Meeting on Medicinal Chemistry – Nuove Prospettive in Chimica Farmaceutica 9 University of Salerno – Fisciano Campus, 6- 9 Settembre 2015
5. **Parrino B.** Synthesis and biological activity of a new series of nortopsentin analogues. Spanish- Italian Medicinal Chemistry Congress. Barcellona, 12-15 Luglio 2015
6. **Parrino B.** Synthesis and antitumor activity of isoindolo[2,1-a]quinoxalin-6-imines and their aza-analogues. “Nuove Prospettive in Chimica Farmaceutica 8” Parma 9, 11 June 2014
7. **Parrino B.** Synthesis and antitumor activity in peritoneal mesothelioma experimental models of 1H-pyrrolo[2,3-b]pyridine derivatives. XXII National Meeting on Medicinal Chemistry. Roma, 10-13 September 2013
8. **Parrino B.** Synthesis of aza-isoindole quinoxalines with antitumor activity Fourth European Workshop in Drug Synthesis Certosa di Pontigiano 27, 31 Maggio 2012
9. **Parrino B.** 3-[2-(1H-Indol-3-yl)-1,3-thiazol-4-yl]-1H-4-azaindole a new series of kinase inhibitors 21st National Meeting on Medicinal Chemistry Palermo July 17-21, 2012
10. **Parrino B.** Marine alkaloids analogues as kinase inhibitors 2nd Meeting of the Paul Ehrlich MedChem Euro-PhD Network Ljubljana 9-11 Settembre 2012
11. **Parrino B.**, Diana P., Barraja P., Carbone A., Cirrincone G. Synthesis of tetracyclic systems with potent antitumor activity 1st Meeting of the Paul Ehrlich MedChem Euro-PhD Network, Madrid (Spagna), 13-15 Luglio 2011
12. Diana P., Muscarella M., Barraja P., Montalbano A., Carbone A., **Parrino B.**, Dattolo G., Cirrincone G. Annelated azaindoles with antitumor activity IV Meeting “Nuove Prospettive in Chimica Farmaceutica” Pula (CA) 6, 7 Maggio 2010

Poster communications

1. **Parrino, B.**; Carbone, D.; Cascioferro, S.; El Hassouni, B.; Peters, G.; Cirrincone, G.; Giovannetti, E.; Diana, P. Biological evaluation of new 1,2,4-oxadiazole topsentin analogs as anticancer agents 40th EORTC-PAMM Winter Meeting 2019, Verona 6-9 Febbraio 2019
2. **Parrino, B.**; Carbone, D.; Cascioferro, S.; Giovannetti, E.; Peters, G.; Schillaci, D.; Cusimano, M.; Cirrincone, G.; Diana, P. New Topsentin analogs as inhibitors of biofilm formation Italian-Spanish-Portuguese Joint Meeting in Medicinal Chemistry MedChemSicily 2018, Palermo 17-20

Luglio 2018

3. Gulotta, M.; Lombino, J.; **Parrino, B.**; Cascioferro, S.; Diana, P.; Padova, A.; Cirrincione, G.; Perricone, U. A computational study to explore the molecular mechanisms behind the antiproliferative activity of Nortopsentin derivatives, Italian-Spanish-Portuguese Joint Meeting in Medicinal Chemistry MedChemSicily 2018, Palermo 17-20 Luglio 2018
4. Lombino, J.; Cascio, S.; Gulotta, M.; Perricone, U.; Cascioferro, S.; **Parrino, B.**; Diana, P.; Padova, A. PRC2 allosteric modulation an alternative strategy in drug discovery for the epigenetic diseases, Italian-Spanish-Portuguese Joint Meeting in Medicinal Chemistry MedChemSicily 2018, Palermo 17-20 Luglio 2018
5. Li Petri, G.; Granchi, C.; Sciarillo, R.; Funel, N.; Zucali, P.; Assaraf, Y.; Cascioferro, S.; **Parrino, B.**; Jansen, G.; Matherly, L.; Zaffaroni, N.; Minutolo, F.; Diana, P.; Peters, G.; Giovannetti, E. Role of hypoxia in pemetrexed-resistance of mesothelioma mediated by proton-coupled folate transporter, and preclinical activity of new anti-LDH compounds, 39 EORTC-PAMM Winter Meeting Roma 7-10 Febbraio 2018
6. Spanò V., Giallombardo D., **Parrino B.**, Carbone A., Montalbano A., Barraja P., Diana P., Cirrincione G. *Pyrrolocycloheptaioxazoles as potent antitumor agents* XIV National Meeting on Medicinal Chemistry– Nuove Prospettive in Chimica Farmaceutica 10 Università di Perugia, 11-14 Settembre 2016
7. Carbone A., **Parrino B.**, Spanò V., Montalbano A., Barraja P., Diana P., Cirrincione G. *Synthesis and antitumor activity of new 7-azaindole derivative nortopsentin analogues* XIV National Meeting on Medicinal Chemistry– Nuove Prospettive in Chimica Farmaceutica 10 Università di Perugia, 11-14 Settembre 2016
8. Montalbano A., Diana P., Barraja P., Carbone A., Spano V., **Parrino B.**, Tesoriere L., Attanzio A., Cirrincione G. *In vitro digestion of beta glucan enriched pasta and antioxidant potential of digesta* XXV Congresso Nazionale della Società Chimica Italiana - SCI, Rende (CS) 7-12 September 2014
9. Giallombardo D., Spanò V., Montalbano A., Carbone A., **Parrino B.**, Diana P., Nadai M., Peta ., Richter S. N., Palumbo M., Cirrincione G., Barraja P. *Synthesis and biological evaluation of pyrrolo[3',2':6,7]cyclohepta[1,2-d]pyrimidin-2-amines*. XXV Congresso Nazionale della Società Chimica Italiana - SCI, Rende (CS) 7-12 September 2014
10. Salvador A., Vedaldi D., Dall'Acqua F., Brun P., Castagliuolo I., **Parrino B.**, Spanò V., Carbone A., Montalbano A., Barraja P., Diana P., Cirrincione G. *New topoisomerase I inhibitors with condensed-azaindole structure* 21ST National Meeting On Medicinal Chemistry Palermo July 17-21, 2012
11. **Parrino B.**, Carbone A., Montalbano A., Barraja P., Diana P., Cirrincione G., Kelter G., Fiebig H. *Antitumor activity of 2,5-bis-(3'-indolyl)-pyrroles, deaza-analogues of nortopsentins* Meeting "Nuove Prospettive in Chimica Farmaceutica 6" Riccione 15, 17 Aprile 2012
12. Diana P., Barraja P., Carbone A., **Parrino B.**, Vedaldi D., Salvador A., Dall'Acqua F., Brun P., Cirrincione G. *Condensed Azaindoles with antitumor activity* 32ndEORTC-PAMM Group Winter Meeting, Sopot (Poland), 2-5 February 2011
13. **Parrino B.** *Synthesis of condensed quinoxalines with potent antitumor activity* European School of Medicinal Chemistry, Urbino, 3-8 Luglio 2011
14. Diana P., Barraja P., Carbone A., **Parrino B.**, Vedaldi D., Salvador A., Dall'Acqua F., Brun P., Cirrincione G. *7-Azaindoles-Fused Heterocycles with antitumor activity* VII Joint Meeting on Medicinal Chemistry, Catania 30 Giugno-2 Luglio 2011
15. Diana P., Carbone A., Barraja P., Montalbano A., **Parrino B.**, G. Dattolo, G. Cirrincione. *Synthesis and antitumor activity of 3-[2-phenyl-1,3-thiazol-4-yl]-1H-7-azaindoles*. XX National Meeting on Medicinal Chemistry. Abano Terme - Padova, 12-16 September 2010

Additional informations

Qualified pharmacist from the University of Palermo

Bibliometric parameters

Author of 65 publications from 2011, 1 patent; H-Index: 22, Total citations: 1259 (Scopus 16/12/2020)

Editorial activities

- Member of the Early Career Advisory Board of ChemMedChem
- Reviewer for *Molecules*, *Marine Drugs*, *European Journal Medicinal Chemistry*, *Monatshefte für Chemie* journals.
- Guest Editor for *Molecules* and *Marine Drugs* Special Issue

Awards

Awarded of **Italian Chemical Society Medicinal Chemistry division** 2015

Awarded of **Premio per la ricerca** 2012 of Università di Palermo

Awarded of **P. Ehrlich MedChem Euro-PhD Network** at University of Liubljana (Slovenia)

In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Firma