

CURRICULUM VITAE

Stella Cascioferro

Stella Cascioferro graduated in Pharmacy with full marks and honors in 1999 at the University of Palermo, where she obtained her PhD in Medicinal Chemistry in 2004.

Then she joined the group of Professor Graham Richards at the Physical and Theoretical Chemistry Laboratory of University of Oxford. From 2004 to 2008 she was a Post Doctoral Fellow at the University of Palermo. From 2012 to 2015 and from 2019 to 2021 she was researcher (RTDA) in Pharmaceutical, Toxicological and Nutraceutical-food Chemistry and Technologies (03/D1, CHIM/08), at the Department of Biological, Chemical and Pharmaceutical Sciences and Technologies of the University of Palermo. From 2018 to 2019 she worked as researcher with a collaboration contract on the project line "Molecular Oncology Specific Biomarkers for the Response to Precision Therapies". From 2021 to 2023 she won a competition to fill the role of RTDB at the University of Palermo. In November 2023 she was Visiting professor at the Department of Pharmaceutical Chemistry of University of Porto (Portugal) where he held lessons to students of the courses in Pharmacy and Pharmaceutical Sciences, PhD and post-doc.

Currently she is Associate Professor at the Department of Biological, Chemical and Pharmaceutical Science and Technology (University of Palermo). Her research interests include the design, synthesis, and biological evaluation of heterocyclic compounds as antitumoral and antibacterial agents.

She is author of 96 scientific papers published in peer reviewed international journals (Scopus Author Identifier: 6507072957, h-index=30 and 2808 citations, 11/06/2024)

She is a member of the Editorial Board for the medicinal chemistry journals: The Open Medicinal Chemistry Journal and Marine Drugs.

Publications (2013-2023)

1. Daniela Carbone, Camilla Pecoraro, Fabio Scianò, Valentina Catania, Domenico Schillaci, Barbara Manachini, Stella Cascioferro*, Patrizia Diana, Barbara Parrino. Novel [1,3,4]Thia-diazole[3,2-a]pyrimidin-5-ones as promising biofilm dispersal agents against relevant Gram-positive and Gram-negative pathogens. *Marine Drugs*, 2024, 22(3), 133.
2. Daniela Carbone, Michele De Franco, Camilla Pecoraro, Davide Bassani, Matteo Pavan, Stella Cascioferro, Barbara Parrino, Girolamo Cirrincione, Stefano dall'Acqua, Stefania Sut, Stefano

Moro, Valentina Gandin, Patrizia Diana, “Structural Manipulations of Marine Natural Products Inspire a New Library of 3-Amino-1,2,4-Triazine PDK Inhibitors Endowed with Antitumor Activity in Pancreatic Ductal Adenocarcinoma” *Mar. Drugs* 2023, 21, 288.

3. Daniela Carbone, Camilla Pecoraro, Giovanna Panzeca, Geng Xu, Margot S. F. Roeten, Stella Cascioferro, Elisa Giovannetti, Patrizia Diana, Barbara Parrino “1,3,4-Oxadiazole and 1,3,4-Thiadiazole Nortopsentin Derivatives against Pancreatic Ductal Adenocarcinoma: Synthesis, Cytotoxic Activity, and Inhibition of CDK1” *Mar. Drugs* 2023, 21, 412.

4. Camilla Pecoraro, Francesca Terrana, Giovanna Panzeca, Barbara Parrino, Stella Cascioferro, Patrizia Diana, Elisa Giovannetti, Daniela Carbone “Nortopsentins as Leads from Marine Organisms for Anticancer and Anti-Inflammatory Agent Development” *Molecules* 2023, 28, 6450.
5. Ignazio Restivo, Manuela Giovanna Basilicata, Ilenia Concetta Giardina, Alessandro Mas-saro, Giacomo Pepe, Emanuela Salviati, Camilla Pecoraro, Daniela Carbone, Stella Cascio-ferro, Barbara Parrino, Patrizia Diana, Carmine Ostacolo, Pietro Campiglia, Alessandro At-tanzio, Antonella D’Anneo, Fanny Poiero, Mario Allegra, Luisa Tesoriere “A Combination of Polymethoxyflavones from *Citrus sinensis* and Prenylflavonoids from *Humulus lupulus* Counteracts IL-1 β -Induced Differentiated Caco-2 Cells Dysfunction via a Modulation of NF- κ B/Nrf2 Activation” *Antioxidants* 2023, 12, 162.
6. Daniela Carbone, Michele De Franco, Camilla Pecoraro , Davide Bassani, Matteo Pavan , Stella Cascioferro , Barbara Parrino, Girolamo Cirrincione, Stefano Dall’Acqua, Stefano Moro, Valentina Gandin, Patrizia Diana “Discovery of the 3-Amino-1,2,4-triazine-Based Li-brary as Selective PDK1 Inhibitors with Therapeutic Potential in Highly Aggressive Pancrea-tic Ductal Adenocarcinoma” *Int. J. Mol. Sci.* 2023, 24, 3679.
7. Styliani Xiroudaki, Samuele Sabbatini, Camilla Pecoraro, Stella Cascioferro, Patrizia Diana, Nathalie Wauthoz, Cinzia Antognelli, Claudia Monari, Stefano Giovagnoli, Aurelie Schoub-ben “Development of a new indole derivative dry powder for inhalation for the treatment of biofilm-associated lung infections” *International Journal of Pharmaceutics*, 2023, 631, 122492.
8. Camilla Pecoraro, Daniela Carbone, Barbara Parrino, Stella Cascioferro * and Patrizia Diana “Recent Developments in the Inhibition of Bacterial Adhesion as Promising Anti-Virulence Strategy” *Int. J. Mol. Sci.* 2023, 24, 4872
9. Camilla Pecoraro, Daniela Carbone, Stella Maria Cascioferro, Barbara Parrino and Patrizia Diana “Multi or Single-Kinase Inhibitors to Counteract Drug Resistance in Cancer: What is New?” *Current Medicinal Chemistry*, 2023, 30, 776-782
10. Camilla Pecoraro, Michele De Franco, Daniela Carbone, Davide Bassani, Matteo Pavan, Stella Cascioferro, Barbara Parrino, Girolamo Cirrincione, Stefano Dall’Acqua, Stefano Moro, Va-lentina Gandin, Patrizia Diana “1,2,4-Amino-triazine derivatives as pyruvate dehydrogenase kinase inhibitors: Synthesis and pharmacological evaluation” *European Journal of Medicinal Chemistry*, 2023, 249, 115134
11. Daniela Carbone, Vincenzo Vestuto, Maria Rosalia Ferraro, Tania Ciaglia, Camilla Pecoraro, Eduardo Sommella, Stella Cascioferro, Emanuela Salviati, Sara Novi, Mario Felice Tecce, Giuseppina Amodio, Nunzio Iraci, Girolamo Cirrincione, Pietro Campiglia, Patrizia Diana, Alessia

Bertamino, Barbara Parrino, Carmine Ostacolo “Metabolomics-assisted discovery of a new anticancer GLS-1 inhibitor chemotype from a nortopsentin-inspired library: From phenotype screening to target identification” *European Journal of Medicinal Chemistry*, 2022, 234, 114233.

12. I Gede Putu Supadmanaba, Giulia Mantini, Ornella Randazzo, Mjriam Capula, Ittai B. Muller, Stella Cascioferro, Patrizia Diana, Godefridus J. Peters & Elisa Giovannetti. “Interrelationship between miRNA and splicing factors in pancreatic ductal adenocarcinoma” *Epigenetics*, 2022, 17(4), pp. 381–404

13. Camilla Pecoraro, Barbara Parrino, Stella Cascioferro, Adrian Puerta, Amir Avan, Godefridus J. Peters, Patrizia Diana, Elisa Giovannetti, Daniela Carbone “A new oxadiazole-based topsentin derivative modulates cyclin-dependent kinase 1 expression and exerts cytotoxic effects on pancreatic cancer cells” *Molecules*, 2022, 27(1), 19

14. Pecoraro, C., Carbone, D., Deng, D., Cascioferro S., Diana, P., Giovannetti, E. “Biofilm Formation as Valuable Target to Fight against Severe Chronic Infections” *Current Medicinal Chemistry*, 2022, 29(25), pp. 4307–4310

15. 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*, 2022, 136, pp. 1–57.
16. Mark F. Santos, Germana Rappa, Jana Karbanová, Simona Fontana, Maria Antonietta Di Bella, Marshall R. Pope, Barbara Parrino, Stella Maria Cascioferro, Giulio Vistoli, Patrizia Diana, Girolamo Cirrincione, Goffredo O. Arena, GyunghwiWoo, Kevin Huang. Tony Huynh, MartaMoschetti, Riccardo Alessandro, Denis Corbei, Aurelio Lorico "Itraconazole inhibits nuclear delivery of extracellular vesicle cargo by disrupting the entry of late endosomes into the nucleoplasmic reticulum" *Journal of Extracellular Vesicles*, 2021, 10(10), e12132.
17. Simone Di Franco, Barbara Parrino, Miriam Gaggianesi, Vincenzo Davide Pantina, Paola Bianca, Annalisa Nicotra, Laura Rosa Mangiapane, Melania Lo Iacono, Gloria Ganduscio, Veronica Veschi, Ornella Roberta Brancato, Antonino Glaviano, Alice Turdo, Irene Pillitteri, Lorenzo Colarossi, Stella Cascioferro, Daniela Carbone, Camilla Pecoraro, Micol Fiori, Ruggero De Maria, Matilde Todaro, Isabella Screpanti, Girolamo Cirrincione, Patrizia Diana, Giorgio Stassi "CHK1 inhibitor sensitizes resistant colorectal cancer stem cells to nortopsentatin" *iScience*, 2021, 24(6), 102664. (ISSN: 2589-0042)
18. I Gede Putu Supadmanaba, Giulia Mantini, Ornella Randazzo, Miriam Capula, Ittai Muller, Stella Cascioferro, Patrizia Diana, Godefridus J Peters, Elisa Giovannetti "Interrelationship between miRNA and splicing factors in pancreatic ductal adenocarcinoma" *Epigenetics*, 2021, in press, doi: 10.1080/15592294.2021.1916697.
19. Stella Cascioferro, Barbara Parrino, Daniela Carbone, Camilla Pecoraro, Patrizia Diana "Novel strategies in the war against antibiotic resistance" *Future Medicinal Chemistry*, 2021, 13, 529–531.
20. Jessica Lombino, Maria Rita Gulotta, Giada De Simone, Nedra Mekni, Maria De Rosa, Daniela Carbone, Barbara Parrino, Stella Maria Cascioferro, Patrizia Diana, Alessandro Padova and Ugo Perricone "Dynamic-shared pharmacophore approach as tool to design new allosteric PRC2 inhibitors, targeting EED binding pocket." *Molecular Informatics*, 2021, 40, 2000148.
21. Barbara Parrino, Stella Cascioferro, Daniela Carbone, Camilla Pecoraro, Girolamo Cirrincione, Patrizia Diana "Eight-membered heterocycles with two heteroatoms in a 1,3-relationship of interest in medicinal chemistry" *Advances in Heterocyclic Chemistry*, 2021, in press, 10.1016/bs.aihch.2020.11.001
22. Anna Carbone‡, Stella Cascioferro‡, Barbara Parrino, Daniela Carbone, Camilla Pecoraro, Domenico Schillaci, Maria Grazia Cusimano, Girolamo Cirrincione and Patrizia Diana "Thiazole

Analogues of the Marine Alkaloid Nortopsentin as Inhibitors of Bacterial Biofilm Formation” *Molecules*, 2021, 26, 81. (‡ These authors contributed equally to this work).

23. Barbara Parrino, Daniela Carbone, Stella Cascioferro, Camilla Pecoraro, Elisa Giovannetti, Dongmei Deng, Veronica Di Sarno, Simona Musella, Giulia Auriemma, Maria Grazia Cusi-mano, Domenico Schillaci, Girolamo Cirrincione, Patrizia Diana “1,2,4-Oxadiazole topsentin analogs as staphylococcal biofilm inhibitors targeting the bacterial transpeptidase sortase A” *European Journal of Medicinal Chemistry*, 2021, 209, 112892. (ISSN: 0009-4374)

24. Stella Cascioferro, Daniela Carbone, Barbara Parrino, Camilla Pecoraro, Elisa Giovannetti, Girolamo Cirrincione and Patrizia Diana “Therapeutic strategies to counteract antibiotic resistance in MRSA biofilm-associated infections “ *ChemMedChem*, 2021, 16, 65–80.

25. Daniela Carbone, Barbara Parrino, Stella Cascioferro, Camilla Pecoraro, Elisa Giovannetti, Veronica Di Sarno, Simona Musella, Giulia Auriemma, Girolamo Cirrincione and Patrizia Diana “1,2,4-Oxadiazole Topsentin Analogs with Antiproliferative Activity against Pancreatic Cancer Cells, Targeting GSK3 β Kinase” *ChemMedChem*, 2021, 16, 537–554. Parrino, B., Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P.

26. “Eight-Membered Rings With Two Heteroatoms 1,2” *Comprehensive Heterocyclic Chemistry IV*, 2021, pp. 94–149.

27. Parrino, B., Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P. "Eight-Membered Rings With Two Heteroatoms 1,3" *Comprehensive Heterocyclic Chemistry IV*, 2021, pp. 150–257.
28. Parrino, B., Cascioferro, S., Carbone, D., Cirrincione, G., Diana, P. "Eight-Membered Rings With Two Heteroatoms 1,5" *Comprehensive Heterocyclic Chemistry IV*, 2021, pp. 285–471.
29. Giovanna Li Petri, Camilla Pecoraro, Ornella Randazzo, Silvia Zoppi, Stella Maria Cascio-ferro, Barbara Parrino, Daniela Carbone, Btissame El Hassouni, Andrea Cavazzoni, Nadia Zaffaroni, Girolamo Cirrincione, Patrizia Diana, Godefridus J. Peters, and Elisa Giovannetti "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 Research*, 2020, 40: 4913-4919.
30. Ornella Randazzo, Filippo Papini, Giulia Mantini, Alessandro Gregori, Barbara Parrino, Daniel S. K. Liu, Stella Cascioferro, Daniela Carbone, Godefridus J. Peters, Adam E. Frampton, Ingrid Garajova and Elisa Giovannetti "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, 3206.
31. Giacomo Pepe, Shara Francesca Rapa, Emanuela Salviati, Alessia Bertamino, Giulia Au-riemma, Stella Cascioferro, Giuseppina Autore, Andrea Quaroni, Pietro Campiglia and Stefania Marzocco "Bioactive Polyphenols from Pomegranate Juice Reduce 5-Fluorouracil-Induced Intestinal Mucositis in Intestinal Epithelial Cells" *Antioxidants*, 2020, 9, 699.
32. Stella Cascioferro, Giovanna Li Petri, Barbara Parrino, Btissame El Hassouni, Daniela Carbone, Vincenzo Arizza, Ugo Perricone, Alessandro Padova, Nicola Funel, Godefridus J. Peters, Girolamo Cirrincione, Elisa Giovannetti, and Patrizia Diana "3-(6-Phenylimidazo [2,1-b][1,3,4]thiadiazol-2-yl)-1HIndole Derivatives as New Anticancer Agents in the Treatment of Pancreatic Ductal Adenocarcinoma" *Molecules*, 2020, 25, 329.
33. Stella Cascioferro, Barbara Parrino, Daniela Carbone, Domenico Schillaci, Elisa Giovannetti, Girolamo Cirrincione, and Patrizia Diana "Thiazoles, Their Benzofused Systems, and Thiazolidinone Derivatives: Versatile and Promising Tools to Combat Antibiotic Resistance" *Journal of Medicinal Chemistry*, 2020, 63, 7923–7956. (ISSN: 0022-2623)
34. Barbara Parrino, Daniela Carbone, Daniela Carbone, Patrizia Diana and Stella Cascioferro* "Inhibitors of antibiotic resistance mechanisms: clinical applications and future perspectives" *Future Medicinal Chemistry*, 2020, 12, 357-359.
35. Stella Cascioferro, Giovanna Li Petri, Barbara Parrino, Daniela Carbone, Nicola Funel, Cecilia Bergonzini, Giulia Mantini, Henk Dekker, Daan Geerke, Godefridus J. Peters, Girolamo Cirrincione,

Elisa Giovannetti, Patrizia Diana “Imidazo[2,1-b] [1,3,4]thiadiazoles with anti-proliferative activity against primary and gemcitabine-resistant pancreatic cancer cells” *European Journal of Medicinal Chemistry*, 2020, 189, 112088.

36. Giovanna Li Petri, Btissame El Hassouni, Rocco Sciarrillo, Niccola Funel, Giulia Mantini, Eveline A. Zeeuw van der Laan, Stella Cascioferro, Amir Avan, Paolo Andrea Zucali, Nadia Zaffaroni, Tonny Lagerweij, Barbara Parrino, Kees Smid, Marcello Deraco, Carlotta Granchi, Alicia Bulinska, Ryszard T. Smolenski, Larry H. Matherly, Gerrit Jansen, Yehuda G. Assaraf, Patrizia Diana, Jacqueline Cloos, Godefridus J. Peters, Filippo Minutolo and Elisa Giovan-netti “Impact of hypoxia on chemoresistance of mesothelioma mediated by the proton-coupled folate transporter, and preclinical activity of new anti-LDH-A compounds” *British Journal of Cancer*, 2020, 123(4), pp. 644–656

37. Giacomo Pepe, Emanuela Salviati, Shara Francesca Rapa, Carmine Ostacolo, Stella Cascioferro, Michele Manfra, Giuseppina Autore, Stefania Marzocco and Pietro Campiglia “Citrus sinensis and Vitis vinifera Protect Cardiomyocytes from Doxorubicin-Induced Oxidative Stress: Evaluation of Onconutraceutical Potential of Vegetable Smoothies” *Antioxidants*, 2020, 9, 378.

38. Barbara Parrino, Stella Cascioferro, Daniela Carbone, Daniela Carbone, Girolamo Cirrincione, Patrizia Diana “Eight-membered heterocycles with two heteroatoms in a 1,2-relationship of interest in medicinal chemistry” *Advances in Heterocyclic Chemistry*, 2020, in press.
39. Barbara Parrino, Stella Cascioferro, Daniela Carbone, Daniela Carbone, Girolamo Cirrincione, Patrizia Diana “Eight-membered heterocycles with two heteroatoms in a 1,5-relationship of interest in medicinal chemistry” *Advances in Heterocyclic Chemistry*, 2020, 132, 135-239.
40. Giovanna Li Petri, Stella Cascioferro, Btissame El Hassouni, Daniela Carbone, Barbara Parrino, Girolamo Cirrincione, Godefridus J. Peters, Patrizia Diana and Elisa Giovannetti “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 Research*, 2019, 39, 3615-3620.
41. Giacomo Pepe, Manuela Giovanna Basilicata, Albino Carrizzo, Simona Adesso, Carmine Ostacolo, Marina Sala, Eduardo Sommella, Marco Ruocco, Stella Cascioferro, Mariateresa Ambrosio, Simona Pisanti, Veronica Di Sarno, Alessia Bertamino, Stefania Marzocco, Carmine Vecchione and Pietro Campiglia “ β -Lactoglobulin Heptapeptide Reduces Oxidative Stress in Intestinal Epithelial Cells and Angiotensin II-Induced Vasoconstriction on Mouse Mesenteric Arteries by Induction of Nuclear Factor Erythroid 2-Related Factor 2 (Nrf2) Translocation” *Oxidative Medicine and Cellular Longevity*, 2019, 1616239.
42. Btissame El Hassouni, Giovanna Li Petri, Daniel Liu, Stella Cascioferro, Barbara Parrino, Waqar Hassan, Patrizia Diana, Asif Ali, Adam E Frampton, Elisa Giovannetti “Pharmacogenetics of treatments for pancreatic cancer” *Expert Opinion On Drug Metabolism and Toxicology*, 2019, 15, 437-447.
43. Stella Cascioferro; Barbara Parrino; Giovanna Li Petri; Maria Grazia Cusimano; Domenico Schillaci; Veronica Di Sarno; Simona Musella; Elisa Giovannetti; Girolamo Cirrincione; Patrizia Diana “2,6-Disubstituted imidazo[2,1-b][1,3,4]thiadiazole derivatives as potent staphylococcal biofilm inhibitors” *European Journal of Medicinal Chemistry*, 2019, 167, 200-210. (ISSN: 0009-4374)
44. Stella Cascioferro, Alessandro Attanzio, Veronica Di Sarno, Simona Musella, Luisa Tesoriere, Girolamo Cirrincione, Patrizia Diana, Barbara Parrino. “New 1,2,4-oxadiazole nortopsentin derivatives with cytotoxic activity” *Marine Drugs*, 2019, 17, 35.
45. 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 holothuroidin 2 from

mediterranean sea cucumber (*Holothuria tubulosa*) in the control of *Listeria monocytogenes*” *Marine Drugs*, 2019, 17, 159.

46. Ilaria Frasson, Virginia Spanò, Simona Di Martino, Matteo Nadai, Filippo Doria, Barbara Parrino, Anna Carbone, Stella Maria Cascioferro, Patrizia Diana, Girolamo Cirrincione, Mauro Freccero, Paola Barraja, Sara N. Richter, Alessandra Montalbano “Synthesis and photo-cytotoxic activity of [1,2,3]triazolo[4,5-h][1,6]naphthyridines and [1,3]oxazolo[5,4-h][1,6]naphthyridines” *European Journal of Medicinal Chemistry*, 2019, 162, 176-193.

47. Barbara Parrino, Domenico Schillaci, Ilaria Carnevale, Elisa Giovannetti, Patrizia Diana, Girolamo Cirrincione, Stella Cascioferro* “Synthetic small molecules as anti-biofilm agents in the struggle against antibiotic resistance” *European Journal of Medicinal Chemistry*, 2019, 161, 154-178.

48. Alessandro Attanzio, Patrizia Diana, Paola Barraja, Anna Carbone, Virginia Spanò, Barbara Parrino, Stella Cascioferro, Mario Allegra, Girolamo Cirrincione, Luisa Tesoriere and Alessandra Montalbano “Quality, functional and sensory evaluation of pasta fortified with extracts from *Opuntia ficus-indica* cladodes” *Journal of the Science of Food and Agriculture*, 2019, 99, 4242–4247.

49. Barbara Parrino, Salviana Ullo, Alessandro Attanzio, Stella Cascioferro, Virginia Spanò, Anna Carbone, Alessandra Montalbano, Paola Barraja, Girolamo Cirrincione, Luisa Tesoriere, Patrizia Diana “Synthesis of 5H-pyrido[3,2-b]pyrrolizin-5-one tripentone analogs with antitumor activity” *European Journal of Medicinal Chemistry*, 2018, 158, 5, 236-246.
50. Anna Carbone, Barbara Parrino, Maria Grazia Cusimano, Virginia Spanò, Alessandra Montalbano, Paola Barraja, Domenico Schillaci, Girolamo Cirrincione, Patrizia Diana, Stella Cascioferro “New thiazole nortopsentin analogues inhibit bacterial biofilm formation” *Marine Drugs*, 2018, 16 (8), 274.
51. Barbara Parrino, Patrizia Diana, Girolamo Cirrincione, Stella Cascioferro* “Bacterial biofilm inhibition in the development of effective anti-virulence strategy” *Open Medicinal Chemistry Journal*, 2018, 12, 84-87.
52. Giovanna Li Petri, Stella Cascioferro, Barbara Parrino, Godefridus J Peters, Patrizia Diana and Elisa Giovannetti “Proton-coupled folate transporter as a biomarker of outcome to treatment for pleural mesothelioma” *Pharmacogenomics*, 2018, 19, 811-814
53. Ugo Perricone, Maria Rita Gulotta, Jessica Lombino, Barbara Parrino, Stella Cascioferro, Patrizia Diana, Girolamo Cirrincione and Alessandro Padova “An overview of recent molecular dynamics applications as medicinal chemistry tools for the undruggable site challenge” *MedChemComm*, 2018, 9, 920-936,
54. Barbara Parrino, Salviana Ullo, Alessandro Attanzio, Virginia Spanò, Stella Cascioferro, Alessandra Montalbano, Paola Barraja, Luisa Tesoriere, Girolamo Cirrincione, Patrizia Diana “New tripentone analogs with antiproliferative activity” *Molecules*, 2017, 22, 2005.
55. Stella Cascioferro, Barbara Parrino, Virginia Spanò, Anna Carbone, Alessandra Montalbano, Paola Barraja, Patrizia Diana, Girolamo Cirrincione “An overview on the recent developments of 1,2,4-triazine derivatives as anticancer compounds” *European Journal of Medicinal Chemistry*, 2017, 142, 328-375.
56. Stella Cascioferro, Barbara Parrino, Virginia Spanò, Anna Carbone, Alessandra Montalbano, Paola Barraja, Patrizia Diana, Girolamo Cirrincione “1,3,5-Triazines: a promising scaffold for anticancer drugs development” *European Journal of Medicinal Chemistry*, 2017, 142, 523-549.
57. Domenico Schillaci, Virginia Spanò, Barbara Parrino, Anna Carbone, Alessandra Montalbano, Paola Barraja, Patrizia Diana, Girolamo Cirrincione, and Stella Cascioferro* “Pharmaceutical Approaches to Target Antibiotic Resistance Mechanisms” *Journal of Medicinal Chemistry*, 2017, 60, 8268-8297.

58. Stella Cascioferro, Barbara Parrino, Virginia Spanò, Anna Carbone, Alessandra Montalbano, Paola Barraja, Patrizia Diana, Girolamo Cirrincione “Synthesis and antitumor activities of 1,2,3-triazines and their benzo- and heterofused derivatives” *European Journal of Medicinal Chemistry*, 2017, 142, 74-86.

59. Barbara Parrino, Alessandro Attanzio, Virginia Spanò, Stella Cascioferro, Alessandra Montalbano, Paola Barraja, Luisa Tesoriere, Patrizia Diana, Girolamo Cirrincione, Anna Carbone “Synthesis, antitumor activity and CDK1 inhibition of new thiazole nortopsentin analogues” *European Journal of Medicinal Chemistry*, 2017, 138, 371-383.

60. Balazs Balogh, Anna Carbone, Virginia Spanò, Alessandra Montalbano, Paola Barraja, Stella Cascioferro, Patrizia Diana, Barbara Parrino “Investigation of Isoindolo[2,1-a]quinoxaline-6-imines as Topoisomerase I Inhibitors with Molecular Modeling Methods”, *Current Computer Aided-Drug Design*, 2017, 13, 208–221.

61. Virginia Spanò, Daniele Giallombardo, Vincenzo Cilibrasi, Barbara Parrino, Anna Carbone, Alessandra Montalbano, Ilaria Frasson, Alessia Salvador, Sara N. Richter, Filippo Doria, Mauro Freccero, Stella Cascioferro, Patrizia Diana, Girolamo Cirrincione, Paola Barraja “Pyrrolo[3',2':6,7]cyclohepta[1,2-b]pyridines with potent photo-antiproliferative activity”, *European Journal of Medicinal Chemistry*, 2017, 128, 300-318.

62. Schillaci, D, Cusimano, M.G, Cascioferro, S., Di Stefano, V., Arizza, V., Chiaramonte, M., Inguglia, L., Bawadekji, A., Davino, S., Gargano, M.L., Venturella, G “Antibacterial activity of desert truffles from Saudi Arabia against *Staphylococcus aureus* and *Pseudomonas aeruginosa*”, *International Journal of Medicinal Mushrooms*, 2017, 19, 121-125.
63. Virginia Spanò, Alessandro Attanzio, Stella Cascioferro, Anna Carbone, Alessandra Montalbano, Paola Barraja, Luisa Tesoriere, Girolamo Cirrincione, Patrizia Diana, Barbara Parrino “Synthesis and antitumor activity of new thiazole nortopsentin analogs”, *Marine Drugs*, 2016, 14, 14120226
64. Stella Cascioferro, Benedetta Maggio, Demetrio Raffa, Maria Valeria Raimondi, Maria Grazia Cusimano, Domenico Schillaci, Barbara Manachini, Fabiana Plescia, Giuseppe Daidone “Synthesis and biofilm formation reduction of pyrazole-4-carboxamide derivatives in some *Staphylococcus aureus* strains”, *European Journal of Medicinal Chemistry*, 2016, 123, 58-68.
65. Domenico Schillaci, Angelo Spinello, Maria Grazia Cusimano, Stella Cascioferro, Giampaolo Barone, Maria Vitale, Vincenzo Arizza “A peptide from human β thymosin as a platform for the development of new anti-biofilm agents for *staphylococcus* spp. and *pseudomonas aeruginosa*”. *World journal of microbiology and biotechnology*, 2016, 32, 124
66. Alessandra Montalbano, Luisa Tesoriere, Patrizia Diana, Paola Barraja, Anna Carbone, Virginia Spanò, Barbara Parrino, Alessandro Attanzio, Maria Antonia Livrea, Stella Cascioferro, Girolamo Cirrincione “Quality characteristics and in vitro digestibility study of barley flour enriched ditalini pasta”, *LWT - Food Science and Technology*, 2016, 72, 223-228.
67. Stella Cascioferro*, Benedetta Maggio, Demetrio Raffa, Maria Valeria Raimondi, Maria Grazia Cusimano, Domenico Schillaci, Barbara Manachini, Ainars Leonchiks, Giuseppe Daidone “A new class of phenylhydrazinylidene derivatives as inhibitors of *Staphylococcus aureus* biofilm formation”, *Medicinal Chemistry Research*, 2016, 25, 870-878.
68. Benedetta Maggio, Demetrio Raffa, Maria Valeria Raimondi, Stella Cascioferro, Fabiana Plescia, Domenico Schillaci, Maria Grazia Cusimano, Ainars Leonchiks, Dmitrijs Zhulenkovs, Livia Basile and Giuseppe Daidone “Discovery of a New Class of Sortase A Transpeptidase inhibitors to Tackle Gram-Positive Pathogens: 2-(2-Phenylhydrazinylidene)alkanoic Acids and Related Derivatives”, *Molecules*, 2016, 21, 241.
69. Stella Cascioferro*, Maria Valeria Raimondi, Maria Grazia Cusimano, Demetrio Raffa, Benedetta Maggio, Giuseppe Daidone and Domenico Schillaci “Pharmaceutical Potential of Synthetic and Natural Pyrrolomycins”, *Molecules*, 2015, 20, 21658–21671;

70. Stella Cascioferro*, Demetrio Raffa, Benedetta Maggio, Maria Valeria Raimondi, Domenico Schillaci and Giuseppe Daidone “Sortase A Inhibitors: Recent Advances and Future Perspectives”, *Journal of Medicinal Chemistry*, 2015, 58, 9108-9123.
71. Demetrio Raffa, Benedetta Maggio, Fabiana Plescia, Stella Cascioferro, Maria Valeria Raimondi, Gabriella Cancemi, Antonella D’Anneo, Marianna Lauricella, Maria Grazia Cusi-mano, Ruoli Bai, Ernest Hamel, Giuseppe Daidone “Synthesis, antiproliferative activity and possible mechanism of action of novel 2-acetamidobenzamides bearing the 2-phenoxy functionality” *Bioorganic and Medicinal Chemistry*, 2015, 23, 6305-6316
72. Benedetta Maggio, Maria Valeria Raimondi, Demetrio Raffa, Fabiana Plescia, Stella Cascioferro, Gabriella Cancemi, Manlio Tolomeo, Stefania Grimaudo, Giuseppe Daidone “Synthesis and antiproliferative activity of 3-(2-chloroethyl)-5-methyl-6-phenyl-8-(trifluoromethyl)-5,6-dihydropyrazolo[3,4-f][1,2,3,5]tetrazepin-4-(3H)-one” *European Journal of Medicinal Chemistry*, 2015, 96, 98-104. (ISSN: 0009-4374).
73. Demetrio Raffa, Benedetta Maggio, Maria Valeria Raimondi, Stella Cascioferro, Fabiana Plescia, Gabriella Cancemi, Giuseppe Daidone “Recent advanced in bioactive systems containing pyrazole fused with a five membered heterocycle”, *European Journal of Medicinal Chemistry*, 2015; 97, 732-46.
74. Stella Cascioferro *, Makrina Totsika and Domenico Schillaci “Sortase A: An Ideal Target for Anti-virulence Drug Development”, *Microbial Pathogenesis*, 2014, 77, 105-112.

75. Stella Cascioferro, Maria Grazia Cusimano, Domenico Schillaci “Anti-adhesion agents against Gram-positive pathogens”, *Future Microbiology*, 2014, 9, 1209-1220.
76. Stella Cascioferro, Domenico Schillaci “The Future of Antibiotic: From the Magic Bullet to the Smart Bullet”, *J Microb Biochem Technol*, 2014, 6:5.
77. Maggio B, Raffa D., Raimondi M.V., Cusimano M.G., Plescia F., Cascioferro S., Cancemi G., Lauricella M., Carlini D., Daidone G. “Synthesis and antiproliferative activity of new derivatives containing the polycyclic system 5,7:7,13-dimethanopyrazolo[3,4-b] pyrazolo [3',4':2,3] azepino [4,5-f] azocine”, *European Journal of Medicinal Chemistry*, 2014, 72, 1-9.