

Linee di ricerca prof. Carmela Saturnino

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1) *Small molecules di interesse farmaceutico (antibiotici, antivirali, antiossidanti eterociclici ed organo-metallici).*

Parole chiave: Small molecules, sintesi, farmaci, linee cellulari, molecular docking.

2) *Progettazione, sintesi e valutazione biologica di molecole con attività antitumorale*

Parole chiave: Sintesi, cancro, antitumorali, molecular docking.

3) *Studio di composti bersaglio-specifici per terapie antitumorali*

Parole chiave: Target therapy, enzimi, linee cellulari, biologia molecolare, sintesi, molecular docking.

Pubblicazioni degli ultimi 5 anni (2017-2021) relative alle linee di ricerca (n. 33, tutte in lingua inglese, su riviste internazionali indicizzate su Scopus e/o ISI):

Caporale, Angelamaria, Palma, Giuseppe, Mariconda, Annaluisa, Vecchio, Vitale Del, Iacopetta, Domenico, Parisi, Ortensia Ilaria, Sinicropi, Maria Stefania, Puoci, Francesco, Arra, Claudio, Longo, Pasquale, SATURNINO, CARMELA (2017). *Synthesis and Antitumor Activity of New Group 3 Metallocene Complexes. MOLECULES*, vol. 22 (4), 526;, p. 1-13, ISSN: 1420-3049, doi: 10.3390/molecules22040526.

Domenico Iacopetta, Annaluisa Mariconda, Carmela Saturnino, Anna Caruso, Giuseppe Palma, Jessica Ceramella, Noemi Muià, Mariarita Perri, Maria Stefania Sinicropi, Maria Cristina Caroleo, Pasquale Longo (2017). *Novel Gold and Silver Carbene Complexes Exert Antitumor Effects Triggering the Reactive Oxygen Species Dependent Intrinsic Apoptotic Pathway. CHEMMEDCHEM*, vol. 12, p. 1-13, ISSN: 1860-7179, doi: 10.1002/cmdc.201700634

Domenico, Iacopetta, Fedora, Grande, Anna, Caruso, Roberta Alessandra Mordocco,, Maria Rosaria Plutino,, Luca, Scrivano, Jessica, Ceramella, Noemi, Muià, SATURNINO, CARMELA, Francesco, Puoci, Camillo, Rosano, Maria Stefania Sinicropi, (2017). *New insights for the use of quercetin analogs in cancer treatment. FUTURE MEDICINAL CHEMISTRY*, vol. 9, p. 2011-2028, ISSN: 1756-8919, doi: 10.4155/fmc-2017-0118

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Dhanyalayam, Dhanya, Scrivano, Luca, Parisi, Ortensia Ilaria, Sinicropi, Maria Stefania, Fazio, Antonietta, SATURNINO, CARMELA, Plutino, Maria Rosaria, Cristo, Francesca Di (2017). Biopolymeric self-assembled nanoparticles for enhanced antibacterial activity of Ag-based compounds. *INTERNATIONAL JOURNAL OF PHARMACEUTICS*, vol. 517 Issues: 1-2, p. 395-402, ISSN: 0378-5173, doi: doi.org/10.1016/j.ijpharm.2016.12.03

SATURNINO, CARMELA, Popolo, Ada, Ramunno, Anna, Adesso, Simona, Pecoraro, Michela, Plutino, Maria Rosaria, Rizzato, Silvia, Albinati, Alberto, Marzocco, Stefania, Sala, Marina, Iacopetta, Domenico, Sinicropi, Maria Stefania . (2017). Anti-inflammatory, Antioxidant and Crystallographic Studies of N-palmitoyl-ethanol amine (PEA) derivatives. *MOLECULES*, vol. 22,616, p. 1-11, ISSN: 1420-3049, doi: doi:10.3390/molecules22040616

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Carmela Saturnino, Fedora Grande, Stefano Aquaro, Anna Caruso, Domenico Iacopetta, Maria Grazia Bonomo, Pasquale Longo, Dominique Schols, Maria Stefania Sinicropi (2018). Chloro-1,4-dimethyl-9H-carbazole derivatives displaying anti-HIV activity. *MOLECULES*, vol. 23, p. 1-8, ISSN: 1420-3049, doi: 10.3390/molecules23020286

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Anna Caruso, Jessica Ceramella, Domenico Iacopetta, Carmela Saturnino, Maria Vittoria Mauro, Rosalinda Bruno, Stefano Aquaro and Maria Stefania Sinicropi. (2019). Carbazole Derivatives as Antiviral Agents: An Overview. *MOLECULES*, vol. 24, p. 1-24, ISSN: 1420-3049, doi: 10.3390/molecules2410191

Fabrizio Francomano, Anna Caruso, Alexia Barbarossa, Alessia Fazio, Chiara La Torre, Jessica Ceramella, Rosanna Mallamaci, Carmela Saturnino, Domenico Iacopetta and Maria Stefania Sinicropi (2019). Beta - Caryophyllene: A Sesquiterpene with Countless Biological Properties. *APPLIED SCIENCES*, vol. 9, p. 1-19, ISSN: 2076-3417, doi: 10.3390/app9245420

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