

Elenco Pubblicazioni 2018-2024

- 1) Biological activities of *Teucrium flavum* L., *Teucrium fruticans* L., and *Teucrium siculum* Rafin. crude extracts
Acquaviva R., Genovese C., Amodeo A., Tomasello B., Malfa G., Sorrenti V., Tempera G., Addamo A.P., Ragusa S., Tundis R., Menichini F., and Di Giacomo C.
Plant Biosystems 152, 720-727, 2018
- 2) Phenolic profile and biological properties of the leaves of *Ficus vasta* Forssk. (Moraceae) growing in Egypt.
Taviano MF, Rashed K, Filocamo A, Cacciola F, Dugo P, Mondello L, Bisignano C, Acquaviva R., D'Arrigo M, Miceli N.
BMC Complement Altern Med. 18, 161, 2018. doi: 10.1186/s12906-018-2210
- 3) Therapeutic potential of caffeic acid phenethyl ester (CAPE) in diabetes
Pittalà, V., Salerno, L., Romeo, G., Acquaviva R., Di Giacomo, C., Sorrenti, V.
Current Medicinal Chemistry 25, 4827-4836, 2018
- 4) Antioxidant activities of *Solanum nigrum* L. leaf extracts determined in in vitro cellular models
Campisi A., Acquaviva R., Raciti G., Duro A., Rizzo M., Santagati N.A.
Foods, 8(2), E63, 2019; doi.org/10.3390/foods8020063
- 5) Blond and blood juice supplementation in high fat diet fed mice: effect on antioxidant status and DDAH/ADMA pathway
Sorrenti V., Di Giacomo C., Acquaviva R., Cosenza J., Carota G. and Galvano F.
RSC Adv. 9, 11406-11412, 2019
- 6) Protective effects of caffeic acid phenethyl ester (CAPE) and novel CAPE analogue as inducers of Heme Oxygenase-1 in streptozotocin-induced type 1 diabetic rats.
Sorrenti V., Raffaele M., Vanella L., Acquaviva R., Salerno L., Pittalà V., Intagliata S., Di Giacomo C.
Int. J. Mol. Sci. 20, pii: 2441, 2019. doi:10.3390/ijms20102441
- 7) *Betula etnensis* Raf. (Betulaceae) extract induced HO-1 expression and ferroptosis cell death in human colon cancer cells
Malfa G.A., Tomasello B., Acquaviva R., Genovese C., La Mantia A., Cammarata F.P., Ragusa M. Renis M., Di Giacomo C.
Int. J. Mol. Sci. 20, pii2723, 2019, doi:10.3390/ijms20112723
- 8) Contribution of Flavonoids and Iridoids to the Hypoglycaemic, Antioxidant, and Nitric Oxide (NO) Inhibitory Activities of *Arbutus unedo* L.
Tenuta M.C., Deguin B., Loizzo M.R., Dugay A., Acquaviva R., Malfa G.A., Bonesi M., Bouzidi C. and Tundis R.
Antioxidants 22;9(2). pii: E184, 2020. doi: 10.3390/antiox9020184
- 9) *In vitro* evaluation of biological activities of *Orobanche crenata* Forssk. leaves extract
Genovese C., Acquaviva R., Ronsisvalle S., Tempera, G., Malfa G.A., D'Angeli F., Ragusa S., Nicolosi D.

- 10) LC-ESI-QTOF-MS profiling, protective effects on oxidative damage, and inhibitory activity of enzymes linked to type 2 diabetes and nitric oxide production of *Vaccinium corymbosum* L. (Ericaceae) extracts
Tenuta M.C., Malfa G.A, Bonesi M., Acquaviva R., Loizzo M.R., Dugay A., Bouzidi C., Tomasello B., Tundis R., and Deguin B.
Journal of Berry Research 10 (4), 603-622, 2020, doi:0.3233/JBR-200536
- 11) *Brassica incana* Ten. (Brassicaceae): phenolic constituents, antioxidant and cytotoxic properties of the leaf and flowering top extracts
Miceli N., Cavò E., Ragusa M., Cacciola F., Mondello L., Dugo L., Acquaviva R., Malfa G.A., Marino A., D'Arrigo M., Taviano M.F.
Molecules 25 (6), 1461; 2020. doi: 10.3390/molecules25061461
- 12) Sigma receptor binders nitric oxide donors for double-targeted cancer therapy
Amata E., Dichiara M., Gentile D., Marrazzo A., Turnaturi R., Arena E., La Mantia A., Tomasello B.R., Acquaviva R., Di Giacomo C., Rescifina A., Prezzavento O.
ACS Medicinal Chemistry Letters, 11, 5, 889-894, 2020
- 13) Cytotoxic, antioxidant and enzyme inhibitory properties of the traditional medicinal plant *Matthiola incana* (L.) R. Br.
Taviano M.F., Miceli N., Acquaviva R., Malfa G.A., Ragusa S., Giordano D., Cásedas G., Les F., López V.
Biology, 25: 1461, 2020. doi: 10.3390/molecules25061461
- 14) Rapha Myr®, a blend of sulforaphane and myrosinase, exerts antitumor and anoikis-sensitizing effects on human astrocytoma cells modulating Sirtuins and DNA methylation
Tomasello B., Di Mauro M.D., Malfa G.A., Acquaviva R., Sinatra F., Spampinato G., Laudani S., Villaggio G., Bielak-Żmijewska A., Grabowska W., Barbagallo I., Liuzzo M.T., Sbisà E., Forte M.G., Di Giacomo C., Bonucci M., Renis M.
Int. J. Mol. Sci. 21, 5328; 2020. doi:10.3390/ijms21155328
- 15) Molecular investigation on a triple negative breast cancer xenograft model exposed to proton beams.
Cammarata F.P., Forte G.I., Broggi G., Bravatà V., Minafra L., Pisciotta P. Calvaruso M., Tringali R., Tomasello B., Torrisi F., Petringa G., Cirrone G.P.A. Cuttone G., Acquaviva R., Caltabiano R. and Russo G.
Int. J. Mol. Sci. 21(17), 6337, 2020. doi10.3390/ijms21176337
- 16) The Antioxidant Activities of *Betula etnensis* Rafin. Ethanolic Extract Exert Protective and Anti-diabetic Effects on Streptozotocin-Induced Diabetes in Rats
Malfa G.A., Tomasello B., Acquaviva R.*, La Mantia A., Pappalardo F., Ragusa M., Renis M. and Di Giacomo C.
Antioxidants 847, 2020. doi:10.3390/antiox9090847
- 17) The Sicilian wild cabbages as biological resources: taxonomic update and a review on chemical constituents and biological activities
Malfa G. A., Acquaviva R., Bucchini A. A. E, Ragusa S., Raimondo F. M. & Spadaro V.
Fl. Medit. 30, 245-260, 2020. doi.org/10.7320/FlMedit30.245

- 18) Antimicrobial, antioxidant, and cytotoxic activities of *Juglans regia* L. pellicle extract
D'Angeli F., Malfa G.A., Garozzo A., Li Volti G., Genovese C., Stivala A., Nicolosi D.,
Attanasio F., Bellia F., Ronsisvalle S., Acquaviva R.
Antibiotics 10, 159, 2021. doi.org/10.3390/antibiotics10020159
- 19) Plant-based bioactive molecules in improving health and preventing lifestyle diseases
Acquaviva R., Malfa G.A. and Di Giacomo C.
Int. J. Mol. Sci. 22, 2991, 2021.
- 20) Plant species of sub-family Valerianaceae: - A review on its effect on the central nervous system
Das G., Shin H.S., Tundis R., Gonçalves S., Tantengco O.A.G., Campos M., Acquaviva R.,
Malfa G.A., Romano A., Robles J.A.H., Clores M.Q., Patra J.K
Plants 10, 846, 2021. <https://doi.org/10.3390/plants10050846>
- 21) Antibacterial and anti-biofilm activities of walnut pellicle extract (*Juglans regia* L.) against
coagulase-negative staphylococci
Acquaviva R., D'Angeli F., Malfa G.A., Ronsisvalle S., Garozzo A., Stivala A., Ragusa S.,
Nicolosi D., Salmeri M., Genovese C.
Nat. Prod. Res. 35(12):2076-2081, 2021 doi: 10.1080/14786419.2019.1650352.
- 22) Antioxidant, antimicrobial and anticancer activities of *Castanea sativa* (Fagaceae) extract: new
therapeutic perspectives
Genovese C., Addamo A., Malfa G.A., Acquaviva R.*, Di Giacomo C., Tomasello B., La Mantia
A., Ragusa S., Toscano M.A., Lupo G., Anfusio C.D., Salmeri M.
Plant Biosystems 155:5,1032-1040, 2021. DOI: 10.1080/11263504.2020.1813828
- 23) Anti-adipogenic and anti-oxidant effects of a standardized extract of Moro blood oranges (*Citrus
sinensis* (L.) Osbeck) during adipocyte differentiation of 3T3-L1 preadipocytes
Tomasello B., Malfa G.A., La Mantia A., Miceli N., Sferrazzo G. Taviano M.F., Di Giacomo C.,
Reni M., Acquaviva R.
Nat. Prod. Res., 35(16):2660-2667, 2021doi: 10.1080/14786419.2019.1660337
- 24) Transcriptional modulations induced by proton irradiation in mice skin in function of adsorbed
dose and distance
Licursi V., Wang W., Di Nisio E., Cammarata F.P., Acquaviva R., Russo G., Manti L., Cestelli
Guidi M., Fratini E., Kamel G.; Amendola R., Pisciotto P. Negri R.
Journal of Radiation Research and Applied Sciences 14, 260-270, 2021.
doi.org/10.1080/16878507.2021.1949675
- 25) Sinapic acid release at the cell level by incorporation into nanoparticles: experimental evidence
using biomembrane models.
Torrise C., Morgante A., Malfa G., Acquaviva R., Pignatello R., Castelli F., Sarpietro M.G.
Micro 1(1), 120-128, 2021. doi.org/10.3390/micro1010009 -
- 26) Phytochemical analysis and anti-inflammatory and anti-osteoarthritic bioactive potential of
Verbascum thapsus L. (Scrophulariaceae) leaf extract evaluated in two *in vitro* models of
inflammation and osteoarthritis

Calabrese G., Zappalà A., Dolcimascolo A., Acquaviva R., Parenti R. and Malfa G.A.
Molecules, 26, 5392, 2021. doi: 10.3390/molecules26175392

- 27) Protocatechuic Acid, a Simple Plant Secondary Metabolite, Induced Apoptosis by Promoting Oxidative Stress through HO-1 Downregulation and p21 Upregulation in Colon Cancer Cells
Acquaviva R., Tomasello B., Di Giacomo C., Santangelo R., Naletova I., Sarpietro M.G., Castelli F. and Malfa G.A.,
Biomolecules 11, 1485, 2021 <https://doi.org/10.3390/biom11101485>
- 28) Vitamin E and Non-Communicable Diseases: A Review.
Ciarcià G., Bianchi S., Tomasello B., Acquaviva R., Malfa G.A., Naletova I., La Mantia A., Di Giacomo C.
Biomedicines. 10(10):2473, 2022. doi: 10.3390/biomedicines10102473.
- 29) Benzo[k,l]xanthene Lignan-Loaded Solid Lipid Nanoparticles for Topical Application: A Preliminary Study.
Torrise C., Cardullo N., Russo S., La Mantia A., Acquaviva R., Muccilli V., Castelli F., Sarpietro M.G.
Molecules. 27(18):5887, 2022. doi: 10.3390/molecules27185887.
- 30) Biological Investigation and Chemical Study of *Brassica villosa* subsp. drepanensis (Brassicaceae) Leaves.
Malfa G.A., De Leo M., Tundis R., Braca A., Loizzo M.R., Di Giacomo C., Raimondo F.M., Bucchini A.E.A., Acquaviva R.
Molecules 27(23):8447, 2022. doi: 10.3390/molecules27238447.
- 31) Advances on Natural Abietane, Labdane and Clerodane Diterpenes as Anti-Cancer Agents: Sources and Mechanisms of Action.
Acquaviva R., Malfa G.A., Loizzo M.R., Xiao J., Bianchi S., Tundis R.
Molecules. 27(15):4791, 2022. doi: 10.3390/molecules27154791.
- 32) *Orobanche crenata* Forssk. Extract Affects Human Breast Cancer Cell MCF-7 Survival and Viral Replication.
Genovese C., Garozzo A., D'Angeli F., Malfa G.A., Bellia F., Tomasello B., Nicolosi D., Malaguarnera R., Ronsisvalle S., Guadagni F. Acquaviva R.
Cells. 19; 11(10):1696. 2022. doi: 10.3390/cells11101696.
- 33) Phytocomplex of a Standardized Extract from Red Orange (*Citrus sinensis* L. Osbeck) against Photoaging.
Tomasello B., Malfa G.A., Acquaviva R., La Mantia A., Di Giacomo C.
Cells. 11(9):1447, 2022. doi: 10.3390/cells11091447.
- 34) Effect of Protocatechuic Acid Ethyl Ester on Biomembrane Models: Multilamellar Vesicles and Monolayers.
Torrise C., Malfa G.A., Acquaviva R., Castelli F., Sarpietro M.G.
Membranes (Basel). 12(3):283, 2022. doi: 10.3390/membranes12030283.
- 35) Natural Compounds and Glutathione: Beyond Mere Antioxidants. Di Giacomo C., Malfa G.A., Tomasello B., Bianchi S., Acquaviva R.
Antioxidants (Basel). 18;12(7):1445, 2023. doi: 10.3390/antiox12071445.

- 36) Wild Artichoke (*Cynara cardunculus* subsp. *sylvestris*, Asteraceae) Leaf Extract: Phenolic Profile and Oxidative Stress Inhibitory Effects on HepG2 Cells.
Acquaviva R., Malfa G.A., Santangelo R., Bianchi S., Pappalardo F., Taviano M.F., Miceli N., Di Giacomo C., Tomasello B.
Molecules., 28(6):2475, 2023. doi: 10.3390/molecules28062475.
- 37) Chemical Profile, Antioxidant and Cytotoxic Activity of a Phenolic-Rich Fraction from the Leaves of *Brassica fruticulosa* subsp. *fruticulosa* (Brassicaceae) Growing Wild in Sicily (Italy).
Davi F., Taviano M.F., Acquaviva R., Malfa G.A., Cavò E., Arena P., Ragusa S., Cacciola F., El Majdoub Y.O., Mondello L., Miceli N.
Molecules., 28(5):2281, 2023. doi: 10.3390/molecules28052281.
- 38) Ethyl Protocatechuate Encapsulation in Solid Lipid Nanoparticles: Assessment of Pharmacotechnical Parameters and Preliminary *In Vitro* Evaluation for Colorectal Cancer Treatment. *Pharmaceutics*.
Russo S., Torrisi C., Cardullo N., Muccilli V., La Mantia A., Castelli F., Acquaviva R., Sarpietro M.G.
Pharmaceutics, 15(2):394, 2023. doi: 10.3390/pharmaceutics15020394.
- 39) Chemical, Antioxidant and Biological Studies of *Brassica incana* subsp. *raimondoi* (Brassicaceae) Leaf Extract.
Malfa G.A., Pappalardo F., Miceli N., Taviano M.F., Ronsisvalle S., Tomasello B., Bianchi S., Davi F., Spadaro V., Acquaviva R.
Molecules., 28(3):1254, 2023. doi: 10.3390/molecules28031254.
- 40) Iridoids- and flavonoids-enriched fractions of *Cornus sanguinea* and *Cornus mas* exert antioxidant and anti-inflammatory effects and inhibit key enzymes in the treatment of metabolic disorders.
Tenuta M.C., Loizzo M.R., Tundis R., Dugay A., Bouzidi C., Arul M., Acquaviva R., Cappello A.R., Deguin B.
Food Funct., 14, 8838-8853, 2023. DOI: 10.1039/d3fo02987e
- 41) Redox State Modulatory Activity and Cytotoxicity of *Olea europaea* L. (Oleaceae) Leaves Extract Enriched in Polyphenols Using Macroporous Resin
Luca T., Malfa G.A., Siracusa L., La Mantia A., Bianchi S., Napoli E., Puleo S., Sergi A., Acquaviva R., Castorina S.
Antioxidants 2024, 13, 73. <https://doi.org/10.3390/antiox13010073>
- 42) Impact on the transcriptome of proton beam irradiation targeted to healthy cardiac tissue of mice.
Sala C., Tarozzi M., Simonetti G., Pazzaglia M., Cammarata F.P., Russo G., Acquaviva R., Cirrone G.A.P., Petringa G., Catalano R., Elia C., Fede F., Manti L., Castellani G., Remondini D., Zironi I.
Cancers 2024, 16, 1471. <https://doi.org/10.3390/cancers16081471>
- 43) Utility potential of the aggressive invasive *Solanum elaeagnifolium* Cav. (Solanaceae) as an option to control its expansion: bioactive compounds and medicinal properties
Kozuharova E., Malfa G.A., Acquaviva R., Zarev Y., Ionkova I.
Euro-Mediterranean Journal for Environmental Integration 2024, doi.org/10.1007/s41207-024-00533-z

Libri

- 1) Cellule staminali: un cerino accesso in una stanza al buio
Acquaviva R. and Vanella L.
Spazio libri-editore; 2007, pp.1-23
- 2) Nitric oxide and skin: effect of natural compounds
A. Russo, R. Acquaviva and L. Vanella
Recent research Developments in Chemistry and Biology of nitric oxide, 2008, pag. 149-179. Ed. Editors: V. Sorrenti, A. Vanella, C. Di Giacomo. Publisher: Transworld Research Network, Kerala, India.
- 3) Prevention and therapy of prostate cancer: the role of triterpene saponins
Bonesi M., Tundis R., Malfa G., Acquaviva R., Loizzo M.R. Prevention and therapy of prostate cancer: the role of triterpene saponins. Goutam Brahmachari. Vol. 7: Discovery and Development of Anti-Prostate Cancerous Agents from Natural Products. Elsevier Series 'Natural Products Drug Discovery. 2018
- 4) Carotenoids as tools in breast cancer therapy
Loizzo M.R., Malfa G., Acquaviva R., Tundis R., Bonesi M. Carotenoids as tools in breast cancer therapy. Chapter 6 - Editor(s): Goutam Brahmachari, In Natural Product Drug Discovery, Discovery and Development of Anti-Breast Cancer Agents from Natural Products. Elsevier, 2021, Pages 123-146, ISBN 9780128212776, <https://doi.org/10.1016/B978-0-12-821277-6.00006-4>.
- 5) Citrus Flavanones. Book Chapter in Handbook of Dietary Phytochemicals.
Tundis R., Acquaviva R., Bonesi M., Malfa G.A., Tomasello B., and Loizzo M.R. In: Xiao, J., Sarker, S.D., Asakawa, Y. (eds) Handbook of Dietary Phytochemicals. Springer, Singapore. 2021. https://doi.org/10.1007/978-981-15-4148-3_

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