



*Scuola di Scienze Agrarie,
Forestali, Alimentari
ed Ambientali*



CATA LOGO RICERCA DELLA SAFE

STRUTTURATO PER AREE DI RICERCA (ADR)

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STRUTTURATO PER AREE DI RICERCA (ADR)

AGGIORNAMENTO

PUBBLICAZIONI EDITE NELL'ANNO 2023

CATALOGO DI RICERCA DELLA SAFE
AGGIORNAMENTO PUBBLICAZIONI ANNO 2023

Grafica e impaginazione
a cura della Commissione Ricerca

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PREMESSA

Con l'obiettivo di fornire agli *stakeholders* e a tutti i soggetti interessati un continuo aggiornamento della vivace attività scientifica svolta nella SAFE, con il prezioso supporto della Commissione Ricerca, è stato eseguito l'aggiornamento del catalogo della ricerca con i lavori scientifici prodotti nell'anno 2023 dagli afferenti alle diverse aree di ricerca. Le pubblicazioni dei professori e ricercatori della SAFE prendono spunto dal contesto territoriale Lucano e delle Regioni limitrofe, caratterizzato complessivamente dal forte interesse verso il settore primario, e i risultati illustrati nella maggior parte dei lavori, non presentano limiti territoriali poiché hanno un quadro di riferimento editoriale di livello internazionale. Dai lavori pubblicati si evince lo sforzo fatto da tutta la comunità SAFE per migliorare la sostenibilità ambientale e la qualità delle produzioni del settore primario nel contesto post pandemia-Covid e della contingente situazione economica internazionale. Inoltre è evidente la sempre più rapida evoluzione dei sistemi produttivi agro-ambientali-industriali che condiziona la velocità dello sviluppo delle innovazioni e impone un continuo aggiornamento della didattica offerta nonché delle attività di orientamento e di terza missione.

Il Direttore

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FORESTE E LEGNO

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PUBBLICAZIONI SSD AGR/05

Docenti afferenti:

Prof. Borghetti M., Prof. Ripullone F., Prof. Pierangeli D.,
Prof. Nolè A., Dr. Colangelo M.

Pubblicazioni del settore

1. Piovesan G., Rita A., Biondi F., Baliva M., Borghetti M., Brunetti M., De Vivo G., Di Filippo A., Dinella A., Gentilesca T., Maugeri M., Palli J., Piotti A., Presutti Saba E., Ripullone F., Schettino A., Vendramin G.G. (2023). Bell-shaped tree-ring responses to air temperature drive productivity trends in long-lived mountain Mediterranean pines. *Science of the Total Environment*, 890, 164103. <https://doi.org/10.1016/j.scitotenv.2023.164103>
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18. Valeriano C., Gutiérrez E., Colangelo M., Gazol A., Sánchez-Salguero R., Tumajer J., Shishov V., Bonet J.A., Martínez de Aragón J., Ibáñez R., Valerio M., Camarero J.J. (2023). Seasonal precipitation and continentality drive bimodal growth in Mediterranean forests. *Dendrochronologia*, 78, 126057.

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20. JJ Camarero, M Colangelo, C Valeriano, M Pizarro (2023). Reversible impacts of a cold spell on forest cover, tree growth and carbohydrates in Mediterranean pine and oak forests. *Forests*, 14 (4), 678. <https://doi.org/10.3390/f14040678>
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PUBBLICAZIONI SSD AGR/06

Docenti afferenti:

Proff. Moretti N., Todaro L.

Publicazioni del settore

1. Tiwari R., Boháč V., Réh R., Lo Giudice V., Todaro L., Vretenár V., Štofanič V., Kristak L. (2023). Investigation of thermophysical properties of *Turkey oak* particleboard for sustainable building envelopes. *Developments in the Built Environment*, 16, 100228. <https://doi.org/10.1016/j.dibe.2023.100228>
2. Lo Giudice V., Antov P., Koynov D., Kristak L., Lee S.H., Lubis M.A.R., Mecca M., Moretti N., Tiwari R., Todaro L. (2023). Effect of thermo-vacuum modification on selected chemical, physical, and mechanical properties of Siberian larch (*Larix sibirica* L.) wood. *Wood Material Science & Engineering*, 18 (6), 1991-2000. <https://doi.org/10.1080/17480272.2023.2212253>
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AdR
BIO-AMBIENTALE

Coordinatore Prof. Antonio Scopa

PUBBLICAZIONI SSD BIO/02- BIO/03

Docenti afferenti:

Prof.ssa Fascetti S., Prof. Rosati L., Dr. Colacino C.

Publicazioni del settore

1. Ravera S., Vizzini A., Totti C., Puglisi M., Azzella M.M., Battaglini A., Bernardo L., Bonini I., Calvia G., Cancellieri L., Cantonati M., De Giuseppe A.B., Fačkovcová Z., Filibeck G., Galasso G., Galli R., Gheza G., Guttová A., Hafellner J., Isocrono D., Malíček J., Nascimbene J., Nimis P.L., Ongaro S., Pandeli G., Paoli .L, Passalacqua N.G., Potenza G., Prosser F., Puntillo D., Rosati L., Rossi S., Rapaccini G., Sicoli G., Spitale D., Trainito E. (2023). Notulae to the Italian flora ofalgae, bryophtes, fungi and lichens: 16. *Italian Botanist*, 16, 105–120. <https://doi.org/10.3897/italianbotanist.16.11404>
2. Bartolucci F., Domina G., Adorni M., Assini S., Brugellis I., Buccomino G., Carruggio F., Conti F., Costanzo E., Del Guacchio E., Falcinelli F., Festi F., Fontanabona L., Forte L., Fortini P., Galasso G., Genduso E., Ghillani L., Gottschlich G., Iamónico D., Laface V.L.A., Lonati M., Mascia F., Mei G., Nota G., Palazzolo P., Pazienza G., Pellegrino G., Potenza G., Quaranta L., Repetto E., Rosati L., Santi F., Secci G., Silletti G.N., Stinca A., Tavilla G., Tomaselli V., Tondi G., Lastrucci L. (2023). Notulae to the Italian native vascular flora: 16. *Italian Botanist*, 16, 89–103. <https://doi.org/10.3897/italianbotanist.16.114657>
3. Barone G., Bajona E., Bartolucci F., Cancellieri L., Caruso G., Conti F., Domina G., Fascetti S., Franzoni J., Laface V.L.A., Pinzani L., Rosati .L, Scoppola A., Stinca A., Tilia A., Crisafulli A. (2023). Contribution to the floristic knowledge of Lipari and Panarea Islands (Sicilia, Italy). *Italian Botanist* 16, 59–71. <https://doi.org/10.3897/italianbotanist.16.113415>
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5. Fanfarillo E., Maccherini S., Angiolini C., De Simone L., Fiaschi T., Tassinari A., Rosati L., Bacaro G. (2023). Drivers of diversity of arable plant communities in one of their European conservation hotspots. *Biodivers Conserv.*, 32, 2055–2075. <https://doi.org/10.1007/s10531-023-02592-0>
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 8. Spampinato G., Tomaselli V., Forte L., Strumia S., Stinca A., Croce A., Fascetti S., Rosati L., Di Pietro R., Mantino F., Laface V.L.A., Musarella C.M. (2023). Relevant but neglected habitat types by the Directive 92/43 EEC in southern Italy. *Rend. Fis. Acc. Lincei*, 34, 457–482. <https://doi.org/10.1007/s12210-023-01136-6>
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 10. Colacino C. (2023). Bryophyte Flora of Albania: an updated check-list with

new records. *Phytologia Balcanica*, 29(3), 337-370.

11. Colacino C. (2023). Contribution to the bryophyte flora of Albania. *Phytologia Balcanica*, 29(2), 163-170.
12. Colacino C. (2023). Biomonitoring with bryophytes in managed forested area. Three examples from the southern Italian Apennines. *BioRisk*, 21, 11-18. <https://doi.org/10.3897/biorisk.21.108551>

PUBBLICAZIONI SSD AGR/07

Docenti afferenti:

Prof.ssa Gioia T., Dr.ssa Logozzo G.

Publicazioni del settore

1. Bellucci E., Benazzo A., Xu C., Bitocchi E., Rodriguez M., Alseekh S., Di Vittori V., Gioia T., Neumann K., Cortinovis G., Frascarelli G., Murube E., Trucchi E., Nanni L., Ariani A., Logozzo G., Shin J.H., Liu C., Jiang L., Ferreira J.J., Campa A., Attene G., Morrell P.L., Bertorelle G., Graner A., Gepts P., Fernie A.R., Jackson S.A., Papa R. (2023). Selection and adaptive introgression guided the complex evolutionary history of the European common bean. *Nature communications*, 14(1), 1908. <https://doi.org/10.1038/s41467-023-37332-z>
2. Bulut M., Wendenburg R., Bitocchi E., Bellucci E., Kroc M., Gioia T., Susek K., Papa R., Fernie A.R., Alseekh S. (2023). A Comprehensive Metabolomics and Lipidomics Atlas for the Legumes Common Bean, Chickpea, Lentil and Lupin. *The Plant Journal*, 116(4), 1152-1171. <https://doi.org/10.1111/tpj.16329>
3. Marzario S., Sica R., Taranto F., Fania F., Esposito S., De Vita P., Gioia T., Logozzo G. (2023). Phenotypic evolution in durum wheat (*Triticum durum* Desf.) based on SNPs, morphological traits, UPOV descriptors and kernel-related traits. *Frontiers in Plant Science*, 14, 1206560. <https://doi.org/10.3389/fpls.2023.1206560>
4. Taranto F., Esposito S., Fania F., Sica R., Marzario S., Logozzo G., Gioia T., De Vita P. (2023). Breeding effects on durum wheat traits detected using GWAS and haplotype block analysis. *Frontiers in Plant Science*, 14, 1206517. <https://doi.org/10.3389/fpls.2023.1206517>
5. Papalini S., Di Vittori V., Pieri A., Allegrezza M., Frascarelli G., Nanni L., Bitocchi E., Bellucci E., Gioia T., Guasch Pereira L., Susek K., Tenailon M.,

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PUBBLICAZIONI SSD AGR/13

Docenti afferenti:

Prof. Scopa A., Dr. Drosos M.

Publicazioni del settore

1. Saad A.M., Elhabbak A.K., Abbas M.H.H., Mohamed I., AbdelRahman M.A.E., Scopa A., Bassouny M.A. (2023). Can deficit irrigations be an optimum solution for increasing water productivity under arid conditions? A case study on wheat plants. *Saudi Journal of Biological Sciences*, 30(2), 103537. <https://doi.org/10.1016/j.sjbs.2022.103537>
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8. Saraswat A., Ram Shri., Abdelrahman M.A.E., Raza M.B., Golui D., Hombegowda H.C., Lawate P., Sharma S., Dash K., Scopa A., Rahman M.M. (2023). Combining Fuzzy, Multicriteria and Mapping Techniques to Assess Soil Fertility for Agricultural Development: A Case Study of Firozabad District, Uttar Pradesh, India. *Land*, 12(4), 860. <https://doi.org/10.3390/land12040860>
9. Ali S., Ur Rahman A., Ali E., Karabulut F., Ali S., Ahmad R., Fadl M.E., AbdelRahman M.A.E., Ahmed M.A.A., Scopa A. (2023). Enlightening climate resilience and nutritional profiling of cantaloupe (*Cucumis melo* L) using 1-naphthalene acetic acid. *Plants*, 12(16), 2969. <https://doi.org/10.3390/plants12162969>
10. Megahed H.A., Abdo A.M., AbdelRahman M.A.E., Scopa A., Hegazy M.N. (2023). Frequency Ratio Model as tools for Flood Susceptibility Mapping in Urbanized Areas: A Case Study from Egypt. *Applied Sciences*, 13(16), 9445. <https://doi.org/10.3390/app1316944>
11. Drosos M., Orlando M., Cozzolino V., Scopa A., Piccolo A. (2023). Deriving the Shannon Index from the soil molecular Humeome serves as a descriptor of soil organic matter stability under different cropping systems. *Chemical and Biological Technologies in Agriculture*, 10, 105. <https://doi.org/10.1186/s40538-023-00473-w>
12. Xiong L., Drosos M., Wang P., Zhang W., JinW., Wang S., Scopa A., Shao C., Sun G., Liu K. (2023). The divergent accumulation mechanisms of microbial necromass C in paddy soil under different long-term fertilization regimes. *Geoderma*, 439, 116688. <https://doi.org/10.1016/j.geoderma.2023.116688>

13. Megahed H.A., Farrag A.A., Mohamed A.A., D'Antonio P., Scopa A., AbdelRahman M.A.E. (2023). Groundwater Potentiality Mapping in the Eastern Desert Basins of Egypt: A Case Study of Wadi Qena Basin Using Remote Sensing and GIS Approaches. *Hydrology*, 15(7), 1376. <https://doi.org/10.3390/w15071376>
14. Li J., Sun B., Liu C., Drosos M., Zhang X., Liu X., Li L., Pan G. (2023) Legacy effect of long-term elevated CO₂ and warming on soil properties controls soil organic matter decomposition. *Agriculture*, 13(3), 639. <https://doi.org/10.3390/agriculture13030639>
15. Sotiriou V., Michas G., Xiong L., Drosos M., Vlachostergios D., Papadaki M., Mihalakakou G., Kargiotidou A., Tziouvalekas M., Salachas G., Giannakopoulos E. (2023) Effects of heavy metal ions on white clover (*Trifolium repens* L.) growth in Cd, Pb and Zn contaminated soils using zeolite. *Soil Science and Environment*, 2, 4. <https://doi.org/10.48130/SSE-2023-0004>
16. He Y., Drosos M., Sun J., Liu X., Pan G., Xia S. (2023) Effects of feedstock and pyrolysis temperature on chemical properties and structural composition of biochar. *J. of Nanjing Agricultural University*, 46(4), 718-726. <https://doi.org/10.7685/jnau.202204013>

AdR

SISTEMI CULTURALI E DIFESA DELLE PIANTE

Coordinatore Prof.ssa Stella Lovelli

PUBBLICAZIONI SSD AGR/02

Docenti afferenti:

Prof.ssa Amato M., Prof.ssa Lovelli S., Prof.ssa Rivelli A.R., Dr. De Rosa D.

Pubblicazioni del settore

1. Adesso R., Sofo A., Amato M. (2023). Rhizosheath: Roles, Formation Processes and Investigation Methods. *Soil Syst.*, 7, 106. <https://doi.org/10.3390/soilsystems7040106>
2. Rossi R., Amato M., Claps S. (2023). Sulla (*Hedysarum coronarium* L.) Response to Drought Stress during Early Vegetative Stage. *Plants*, 12(19), 3396. <https://doi.org/10.3390/plants12193396>
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5. Libutti A., Russo D., Lela L., Ponticelli M., Milella L., Rivelli A.R. (2023). Enhancement of Yield, Phytochemical Content and Biological Activity of a Leafy Vegetable (*Beta vulgaris* L. var. *cycla*) by Using Organic Amendments as an Alternative to Chemical Fertilizer. *Plants*, 12(3), 569, [1-19. https://doi.org/10.3390/plants12030569](https://doi.org/10.3390/plants12030569)

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7. Comegna A., Belviso C., Rivelli A.R., Coppola A., Dragonetti G., Sobhani A., Di Prima S., Satriani A., Cavalcante F., Lovelli S. (2023). Analysis of critical water flow and solute transport parameters in different soils mixed with a synthetic zeolite. *Catena*, 228, 107150. <https://doi.org/10.1016/j.catena.2023.107150>
8. Akram M.Z., Libutti A., Rivelli AR. (2023). Evaluation of Vegetative Development of Quinoa under Water Stress by Applying Different Organic Amendments. *Agronomy*, 13(5), 1412. <https://doi.org/10.3390/agronomy13051412>
9. Castronuovo D., Satriani A., Rivelli A.R., Comegna A., Belviso C., Coppola A., Di Prima, S., Cavalcante F., Lovelli S. (2023). Effects of Zeolite and Deficit Irrigation on Sweet Pepper Growth. *Horticulturae*, 9(11), 1230. <https://doi.org/10.3390/horticulturae9111230>
10. Castronuovo D., Comegna A., Belviso C., Satriani A., Lovelli S. (2023). Zeolite and Ascophyllum nodosum-Based Biostimulant Effects on Spinach Gas Exchange and Growth. *Agriculture*, 13(4), 754. <https://doi.org/10.3390/agriculture13040754>
11. Grace P., De Rosa D., Shcherbak I., Strazzabosco A., Rowlings D., Scheer C., Barton L., Wang D., Schwenke G., Armstrong R., Porter I., Bell M. (2023). Revised emission factors for estimating direct nitrous oxide emissions from nitrogen inputs in Australia's agricultural production systems: a meta-analysis. *Soil Research*, 62, SR23070. <https://doi.org/10.1071/SR23070>
12. Takeda N., Friedl J., Kirkby R., Rowlings D., Scheer C., De Rosa D., Grace P. (2023). Denitrification Losses in Response to N Fertilizer Rates—Integrating High Temporal Resolution N₂O, In Situ ¹⁵N₂O and ¹⁵N₂ Measurements and Fertilizer ¹⁵N Recoveries in Intensive Sugarcane Systems. *Journal of Geophysical Research: Biogeosciences*, 128(9), e2023JG007391. <https://doi.org/10.1029/2023JG007391>

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14. Kirkby R., Friedl J., Takeda N., De Rosa D., Rowlings D.W., Grace P.R. (2023). Nonlinear response of N₂O and N₂ emissions to increasing soil nitrate availability in a tropical sugarcane soil. *Journal of Soils and Sediments*, 23, 2065–2071. <https://doi.org/10.1007/s11368-023-03482-2>

PUBBLICAZIONI SSD AGR/11

Docenti afferenti:

Prof.ssa Battaglia D., Dr. Trotta V.

Publicazioni del settore

1. Forlano P., Caccavo V., Battaglia D., Fanti P., Trotta V. (2023). Effects of exposures to repeated heat stress on the survival of the pea aphid *Acyrtosiphon pisum* and its endoparasitoid *Aphidius ervi*. *Bulletin of Insectology*, 76 (2), 219-227.
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PUBBLICAZIONI SSD AGR/12

Docenti afferenti:

Prof. Camele I., Prof. Crescenzi A., Dr.ssa Nuzzaci M., Dr. Elshafie H.S.

Publicazioni del settore

1. Cardellicchio F., Bufo S.A., Mang S.M., Camele I., Salvi A.M., Scrano L. (2023). The Bio-Patina on a Hypogeum Wall of the Matera-Sassi Rupestrian Church "San Pietro Barisano" before and after Treatment with Glycoalkaloids. *Molecules*, 28, 330. <https://doi.org/10.3390/molecules28010330>
2. Maxim A., Albu V.C., Vodnar D.C., Mihăiescu T., Mang S.M., Camele I., Trotta V., Bonomo M.G., Mihalescu L., Sandor M., Ranga F., Borsai O. (2023). Assessment of Tomato (*Solanum lycopersicum*) Landraces for Their Agronomic, Biochemical Characteristics and Resistance to *Phytophthora infestans*. *Agronomy*, 13, 21. <https://doi.org/10.3390/agronomy1301002>
3. Elshafie H.S., Camele I., Mohamed A.A. (2023). A Comprehensive Review on the Biological, Agricultural and Pharmaceutical Properties of Secondary Metabolites Based-Plant Origin. *Int. J. Mol. Sci.*, 24(4), 3266. <https://doi.org/10.3390/ijms24043266>
4. Elshafie H.S., De Martino L., Formisano C., Caputo L., De Feo V., Camele I. (2023). Chemical Identification of Secondary Metabolites from Rhizospheric Actinomycetes Using LC-MS Analysis: In Silico Antifungal Evaluation and Growth-Promoting Effects. *Plants*, 12, 1869. <https://doi.org/10.3390/plants12091869>

5. El-Attar M.S., Sadeek S.A., El-Sayed H.A., Kamal H.M., Elshafie H.S. (2023). Structural and Antimicrobial Investigation of Some New Nanoparticles Mixed Ligands Metal Complexes of Ethyl 6-Amino-4-(4-chlorophenyl)-5-cyano-2-methyl-4H-pyran-3-carboxylate in Presence of 1,10-Phenanthroline. *Inorganics*, 11, 220. <https://doi.org/10.3390/inorganics11050220>
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7. Camele I., Sadeek S.A., Racioppi R., Elshafie H.S. (2023). Antimicrobial Activity of Diffusible and Volatile Metabolites Emitted by *Beauveria bassiana*: Chemical Profile of Volatile Organic Compounds (VOCs) Using SPME-GC/MS Analysis. *Plants*, 12, 2854. <https://doi.org/10.3390/plants12152854>
8. Elshafie H.S., Camele I. (2023). Plant Essential Oil with Biological Activity (II). *Plants*, 2023, 12(20), 3616. <https://doi.org/10.3390/plants12203616>
9. Al-Sarraj F., Alotibi I., Al-Zahrani M., Albiheyri R., Alghamdi M.A., Nass N.M., Abd-Ellatif S., Makhlof R.T.M., Alsaad M.A., Sajer B.H., Elshafie H.S. (2023). Green Synthesis of Chitosan-Capped Gold Nanoparticles Using *Salvia officinalis* Extract: Biochemical Characterization and Antimicrobial and Cytotoxic Activities. *Molecules*, 28, 7762. <https://doi.org/10.3390/molecules28237762>
10. Triunfo M., Guarnieri A., Ianniciello D., Coviello L., Vitti A., Nuzzaci M., Salvia R., Scieuzo C., Falabella P. (2023). *Hermetia illucens* an innovative and sustainable source of chitosan-based coating for post-harvest preservation of strawberries. *ISCIENCE*, 108576. <https://doi.org/10.1016/j.isci.2023.108576>
11. Liuzzi G.M., Petraglia T., Latronico T., Crescenzi A., Rossano R. (2023). Antioxidant Compounds from Edible Mushrooms as Potential Candidates for Treating Age-Related Neurodegenerative Diseases. *Nutrients*, 15(8), 1913. <https://doi.org/10.3390/nu15081913>

12. Petraglia T., Latronico T., Fanigliulo A., Crescenzi A., Liuzzi G.M., Rossano R. (2023). Antioxidant Activity of Polysaccharides from the Edible Mushroom *Pleurotus eryngii*. *Molecules*, 28(5), 2176. <https://doi.org/10.3390/molecules28052176>

AdR

SCIENZE E TECNOLOGIE ANIMALI

Coordinatore Prof.ssa Adriana Di Trana

Docenti afferenti:

Prof. Rando A., Prof.ssa Di Gregorio P.

Pubblicazioni del settore

1. Di Gregorio P., Perna A., Di Trana A., Rando A. (2023). A. Identification of ROH Islands Conserved through Generations in Pigs Belonging to the Nero Lucano Breed. *Genes*, 14, 1503. <https://doi.org/10.3390/genes14071503>
2. Grassi G., Capasso G., Rando A., Perna A.M. (2023). Antioxidant Activity of Beef, Pork and Chicken Burgers before and after Cooking and after In Vitro Intestinal Digestion. *Foods*, 12, 4100. <https://doi.org/10.3390/foods12224100>
3. Di Trana A., Sabia E., Di Rosa A.R., Addis M., Bellati M., Russo V., Dedola A.S., Chiofalo V., Claps S., Di Gregorio P., Braghieri A. (2023). Podolico Cheese, a Traditional Agri-Food Product of the Region of Basilicata, Italy: Comparison of the Cheese's Nutritional, Health and Organoleptic Properties at 6 and 12 Months of Ripening, and Its Digital Communication. *Foods*, 12, 4339. <https://doi.org/10.3390/foods12234339>
4. Tumino S., Di Trana A., Valenti B., Bordonaro S., Claps S., Avondo M., Di Gregorio P. (2023). Polymorphism at the CSN1S1 Locus and Energy Intake Level Affect Milk Traits and Casein Profiles in Rossa Mediterranea Goats. *Animals*, 2023, 13, 1982. <https://doi.org/10.3390/ani13121982>

PUBBLICAZIONI SSD AGR/18

Docenti afferenti:

Prof.ssa Di Trana A., Prof. Pacelli C.

Pubblicazioni del settore

1. Di Trana A., Sabia E., Di Rosa A.R., Addis M., Bellati M., Russo V., Dedola A.S., Chiofalo V., Claps S., Di Gregorio P., Braghieri A. (2023). Podolico Cheese, a Traditional Agri-Food Product of the Region of Basilicata, Italy: Comparison of the Cheese's Nutritional, Health and Organoleptic Properties at 6 and 12 Months of Ripening, and Its Digital Communication. *Foods*, 12, 4339. <https://doi.org/10.3390/foods12234339>
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3. Di Gregorio P., Perna A., Di Trana A., Rando A. (2023). A. Identification of ROH Islands Conserved through Generations in Pigs Belonging to the Nero Lucano Breed. *Genes*, 14, 1503. <https://doi.org/10.3390/genes14071503>
4. Busetta, G., Garofalo, G., Barbera, M., Di Trana, A., Claps, S., Lovallo, C., Franciosi E., Gaglio R., Settanni L. (2023). Metagenomic, microbiological, chemical and sensory profiling of Caciocavallo Podolico Lucano cheese. *Food Research International*, 169, 112926. <https://doi.org/10.1016/j.foodres.2023.112926>

5. Cosentino C., Paolino R., Adduci F., Tarricone S., Pacelli C., Sabia E., Freschi P. (2023). Case Study on the Impact of Water Resources in Beef Production: Corn vs. Triticale Silage in the Diet of Limousine × Podolian Young Bulls. *Animals*, 13, 3355. <https://doi.org/10.3390/ani13213355>
6. Dinnella C., Napolitano F., Spinelli S., Monteleone E., Pacelli C., Braghieri A. (2023). Factors affecting stated liking for meat products: Focus on demographics, oral responsiveness, personality, and psycho-attitudinal traits. *Meat Sci.*, 195, 109004. <https://doi.org/10.1016/j.meatsci.2022.109004>
7. Freschi P., Braghieri A., Pacelli C., Langella E., Riviezzi A.M., Paolino R., Cosentino C. (2023). Sensory Profile and Consumer Liking of Sustainable Salamis Differing in Wild Boar Meat and Seasoning Ingredients Addition. *Foods*, 12(5), 1089. <https://doi.org/10.3390/foods12051089>
8. Freschi P., Cosentino C., Napolitano F., Pacelli C., Manicone D., Mallia E., Ragni M., Paolino R., Braghieri A. (2023). First Report on a Cliff-Nesting Pair of Black Storks (*Ciconia nigra* Linnaeus, 1758) and Their Nestlings. *Forests*, 14, 1941. <https://doi.org/10.3390/f14101941>
9. Lambiase C., Braghieri A., Barone C.M.A., Di Francia A., Pacelli C., Serrapica F., Lorenzo J.M., De Rosa G. (2023). Use of Cyanobacterium *Spirulina* (*Arthrospira platensis*) in Buffalo Feeding: Effect on Mozzarella Cheese Quality. *Food*, 12, 4095. <https://doi.org/10.3390/foods12224095>
10. Mota-Rojas D., Braghieri A., Ghezzi M., Ceriani M.C., Martínez-Burnes J., Lendez P.A., Pereira A.M.F., Lezama-García K., Domínguez-Oliva A., Casas-Alvarado A., Sabia E., Pacelli C., Napolitano F. (2023). Strategies and Mechanisms of Thermal Compensation in Newborn Water Buffaloes. *Animals*, 13, 2161. <https://doi.org/10.3390/ani13132161>
11. Mota-Rojas D., Braghieri A., Napolitano F., Álvarez-Macías A., Bragaglio A., Rodríguez-González D., Mora-Medina P., Pacelli C., Domínguez-Oliva A., Sabia E., Rios J., De Rosa G. (2023). Human-animal relationship in water buffalo: quality of stockpeople interactions and their effect on dairy and meat production. *J. Anim. Behav. Biometeorol.*, 11, 2023ss02. <https://doi.org/10.31893/jabb.23ss02>

12. Napolitano F., De Rosa G., Chay-Canul A., Álvarez-Macías A., Pereira A.M.F., Bragaglio A., Mora-Medina P., Rodríguez-González D., García-Herrera R., Hernández-Ávalos I., Domínguez-Oliva A., Pacelli C., Sabia E., Casas-Alvarado A., Reyes-Sotelo B., Braghieri A. (2023). The Challenge of Global Warming in Water Buffalo Farming: Physiological and Behavioral Aspects and Strategies to Face Heat Stress. *Animals*, 13, 3103. <https://doi.org/10.3390/ani13193103>

PUBBLICAZIONI SSD AGR/19

Docenti afferenti:

Prof.ssa Braghieri A., Prof. Freschi P., Prof. Cosentino C.,
Prof.ssa Perna AM., Dott. Sabia E.

Publicazioni del settore

1. Napolitano F., Bragaglio A., Braghieri A., El-Aziz A.H.A., Titto C.G., Villanueva-García D., Mora-Medina P., Pereira A.M.F., Hernández-Avalos I., José-Pérez N., Casas-Alvarado A., Lezama-García K., Domínguez-Oliva A., Rodríguez-González D., Bertoni A., Mota-Rojas D. (2023). The effect of birth weight and time of day on the thermal response of newborn water buffalo calves. *Front. Vet. Sci.*, 10, 1084092. <https://doi.org/10.3389/fvets.2023.1084092>
2. Freschi P., Braghieri A., Pacelli C., Langella E., Riviezzì A.M., Paolino R., Cosentino C. (2023). Sensory Profile and Consumer Liking of Sustainable Salamis Differing in Wild Boar Meat and Seasoning Ingredients Addition. *Foods*, 12(5), 1089. <https://doi.org/10.3390/foods12051089>
3. Dinnella C., Napolitano F., Spinelli S., Monteleone E., Pacelli C., Braghieri A. (2023). Factors affecting stated liking for meat products: Focus on demographics, oral responsiveness, personality, and psycho-attitudinal traits. *Meat Sci.*, 195, 109004. <https://doi.org/10.1016/j.meatsci.2022.109004>
4. Mota-Rojas D., Braghieri A., Ghezzi M., Ceriani M.C., Martínez-Burnes J., Lendez P.A., Pereira A.M.F., Lezama-García K., Domínguez-Oliva A., Casas-Alvarado A., Sabia E., Pacelli C., Napolitano F. (2023). Strategies and Mechanisms of Thermal Compensation in Newborn Water Buffaloes. *Animals*, 13, 2161. <https://doi.org/10.3390/ani13132161>

5. Di Trana A., Sabia E., Di Rosa A.R., Addis M., Bellati M., Russo V., Dedola A.S., Chiofalo V., Claps S., Di Gregorio P., Braghieri A. (2023). Podolico Cheese, a Traditional Agri-Food Product of the Region of Basilicata, Italy: Comparison of the Cheese's Nutritional, Health and Organoleptic Properties at 6 and 12 Months of Ripening, and Its Digital Communication. *Foods*, 12, 4339. <https://doi.org/10.3390/foods12234339>
6. Lambiase C., Braghieri A., Barone C.M.A., Di Francia A., Pacelli C., Serrapica F., Lorenzo J.M., De Rosa G. (2023). Use of Cyanobacterium Spirulina (Arthrospira platensis) in Buffalo Feeding: Effect on Mozzarella Cheese Quality. *Foods*, 12, 4095. <https://doi.org/10.3390/foods12224095>
7. Freschi P., Cosentino C., Napolitano F., Pacelli C., Manicone D., Mallia E., Ragni M., Paolino R., Braghieri A. (2023). First Report on a Cliff-Nesting Pair of Black Storks (Ciconia nigra Linnaeus, 1758) and Their Nestlings. *Forests*, 14, 1941. <https://doi.org/10.3390/f14101941>
8. Napolitano F., De Rosa G., Chay-Canul A., Álvarez-Macías A., Pereira A.M.F., Bragaglio A., Mora-Medina P., Rodríguez-González D., García-Herrera R., Hernández-Ávalos I., Domínguez-Oliva A., Pacelli C., Sabia E., Casas-Alvarado A., Reyes-Sotelo B., Braghieri A. (2023). The Challenge of Global Warming in Water Buffalo Farming: Physiological and Behavioral Aspects and Strategies to Face Heat Stress. *Animals*, 13, 3103. <https://doi.org/10.3390/ani13193103>
9. Pietrafesa R., Siesto G., Tufariello M., Palombi L., Baiano A., Gerardi C., Braghieri A., Genovese F., Grieco F., Capece A. (2023). A multivariate approach to explore the volatolomic and sensory profiles of craft Italian Grape Ale beers produced with novel Saccharomyces cerevisiae strains. *Frontiers in Microbiology*, 14, 1234884. <https://doi.org/10.3389/fmicb.2023.1234884>
10. Mota-Rojas D., Braghieri A., Napolitano F., Álvarez-Macías A., Bragaglio A., Rodríguez-González D., Riosa J., De Rosa G. (2023). Human-animal relationship in water buffalo: quality of stockpeople interactions and their effect on dairy and meat production. *Journal of Animal Behaviour and Biometeorology*, 2023, 11, e2023ss02.
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 15. Grassi G., Capasso G., Gambacorta E., Perna A.M. (2023). Chemical and Functional Characterization of Propolis Collected from Different Areas of South Italy. *Foods*, 12, 3481. <https://doi.org/10.3390/foods12183481>
 16. Di Gregorio P., Perna A., Di Trana A., Rando A. (2023). A. Identification of ROH Islands Conserved through Generations in Pigs Belonging to the Nero Lucano Breed. *Genes*, 14, 1503. <https://doi.org/10.3390/genes14071503>
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PUBBLICAZIONI SSD VET/01

Docenti afferenti:

Dr.ssa Langella E.

Publicazioni del settore

1. Freschi P., Braghieri A., Pacelli C., Langella E., Riviezzi A.M., Paolino R., Cosentino C. (2023). Sensory Profile and Consumer Liking of Sustainable Salamis Differing in Wild Boar Meat and Seasoning Ingredients Addition. *Foods*, 12(5), 1089. <https://doi.org/10.3390/foods12051089>

AdR

**ECONOMIA
E INGEGNERIA**

Coordinatore Prof. Alessandro Comegna

PUBBLICAZIONI SSD AGR/01

Docenti afferenti:

Prof. Romano S., Prof.ssa Coppola A., Prof. Cozzi M., Prof. Viccaro M.,
Dott. Perretti B.

Pubblicazioni del settore

1. Viccaro M., Coppola A., D'Angelo M.C., Genovese F., Romano S., Cozzi M. (2023). Young People Are Not All the Same! The Theory of Planned Behaviour Applied to Food Waste Behaviour across Young Italian Generations. *Sustainability* (Switzerland), 15(20), 14741. <https://doi.org/10.3390/su152014741>
2. Vastola A., Viccaro M., Grippo V., Genovese F., Romano S., Cozzi M. (2023). The Decoupling Effect in Italian Agricultural Waste: An Empirical Analysis. *Sustainability* (Switzerland), 15(24), 16596. <https://doi.org/10.3390/su152416596>

PUBBLICAZIONI SSD AGR/08

Docenti afferenti:

Prof. Coppola A., Prof. Comegna A., Dott. Di Prima S.

Pubblicazioni del settore

1. Castronuovo D., Satriani A., Rivelli A.R., Comegna A., Belviso C., Coppola A., Di Prima, S., Cavalcante F., Lovelli S. (2023). Effects of Zeolite and Deficit Irrigation on Sweet Pepper Growth. *Horticulturae*, 9(11), 1230. <https://doi.org/10.3390/horticulturae9111230>
2. Castronuovo D., Comegna A., Belviso C., Satriani A., Lovelli S. (2023). Zeolite and Ascophyllum nodosum-Based Biostimulant Effects on Spinach Gas Exchange and Growth. *Agriculture*, 13(4), 754. <https://doi.org/10.3390/agriculture13040754>
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5. Di Prima S., Fernandes G., Marras E., Giadrossich F., Stewart R.D., Abou Najm M. R., Winiarski T., Mourier B., Angulo-Jaramillo R., Comegna A.,

- del Campo A., Lassabatere L. (2023). Evaluating subsurface flow connectivity in a pine-covered hillslope with stemflow infiltration and ground-penetrating radar surveys. *Journal of Hydrology*, 620. <https://doi.org/10.1016/j.jhydrol.2023.129527>
6. Lassabatere L., Peyneau P.-E., Yilmaz D., Pollacco J., Fernández-Gálvez J., Latorre B., Moret-Fernández D., Di Prima S., Rahmati M., Stewart R.D., Abou Najm M., Hammecker C., Angulo-Jaramillo R. (2023). Mixed formulation for an easy and robust numerical computation of sorptivity. *Hydrology and Earth System Sciences*, 27, 895–915. <https://doi.org/10.5194/hess-27-895-2023>

PUBBLICAZIONI SSD AGR/09

Docenti afferenti:

Prof.ssa D'Antonio P., Dr.ssa Fiorentino C.

Publicazioni del settore

1. Fiorentino, C., D'Antonio, P., Toscano, F., Donvito, A., Modugno, F. (2023). New Technique for Monitoring High Nature Value Farmland (HNVF) in Basilicata. *Sustainability* (Switzerland), 15(10), 8377. <https://doi.org/10.3390/su15108377>
2. AbdelRahman M.A.E., Metwalli M.R., Toscano F., Fiorentino C., Scopa A., D'Antonio P. (2023). Determining the extent of soil degradation processes using trend analyzes at a multispectral regional scale. *Land*, 12(4), 855. <https://doi.org/10.3390/land12040855>
3. D'Antonio P., Mehmeti A., Toscano F., Fiorentino C. (2023). Operating performance of manual, semi-automatic, and automatic tractor guidance systems for precision farming. *Research in Agricultural Engineering*, 69(4), 179-188. <https://doi.org/10.17221/5/2023-RAE>
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PUBBLICAZIONI SSD AGR/10

Docenti afferenti:

Prof. Picuno P., Prof. Margiotta S., Dott. De Luca V.

Pubblicazioni del settore

1. Djakhane K., Chaibi F., Cheikh C., Bassaid S., Dehbi A., Alsalmeh A., Picuno P. (2023). Synthesis, characterization and swelling behavior of a poly(acrylamide-co-acrylic acid) copolymer: Application to water retention in two sandy agricultural soils in sub-Saharan region. *Polymer Engineering and Science*, 63 (11), 3657-3671. <https://doi.org/10.1002/pen.26474>
2. Puglisi R., Cillis G., Statuto D., Picuno P. (2023). Recycled Plastics Used in the Production of Agricultural Nets for Crop Protection. *Lecture Notes in Civil Engineering*, 337, 1203-1210. https://doi.org/10.1007/978-3-031-30329-6_124
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AdR
**SCIENZE, TECNOLOGIE E
BIOTECNOLOGIE ALIMENTARI**

Coordinatore Prof.ssa Fernanda Galgano

PUBBLICAZIONI SSD AGR/09

Docenti afferenti:

Prof. Di Renzo G.C., Prof. Altieri G., Prof. Genovese F., Dott. Matera A.

Publicazioni del settore

1. Matera A., Altieri G., Genovese F., Scarano L., Genovese G., Di Renzo G.C. (2023). A novel breathable package system to improve the fresh fig (*Ficus carica* L. 'Dottato') shelf life. *Journal of the science of food and agriculture*, 3(3),1105-1114. <https://doi.org/10.1002/jsfa.12093>
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4. Matera A., Sepe L., Vincenzetti S., Tolve R., Condelli N., Claps S., Genovese F., Ricciardi A., Zotta T., Scarpa T., Di Napoli M.A., Cifuni G.F., Polidori P., Santini G., Scarano L., Altieri G., Di Renzo G.C., Renzi S., Giavalisco M., Galgano F. (2023). Impact of diet supplemented with microencapsulated condensed tannins on cow milk nutritional profile. *International Journal of Food Dairy Technology*, 76(4), 813-87. <https://doi.org/10.1111/1471-0307.12985>
5. Rashvand, M., Altieri G., Genovese F., Matera A., Mammadov O., li, Z., Di Renzo G.C. (2023). Potential of finite element method to

optimize the olive harvester machine (hand-held rotary harvester). *Journal of Food Process Engineering*, 46, e14268. <https://doi.org/10.1111/jfpe.14268>

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7. Rashvand M., Altieri G., Abbaszadeh R., Matera A., Genovese F., Feyissa A.H., Di Renzo G.C. (2023). Prediction of CO₂ and ethylene produced in-packaged apricot under cold plasma treatment by machine learning approach. *Journal of Food Process Engineering*, 46, e14418. <https://doi.org/10.1111/jfpe.14418>
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9. Pietrafesa R., Siesto G., Tufariello M., Palombi L., Baiano A., Gerardi C., Braghieri A., Genovese F., Grieco F., Capece A. (2023). A multivariate approach to explore the volatolomic and sensory profiles of craft Italian Grape Ale beers produced with novel *Saccharomyces cerevisiae* strains. *Frontiers in Microbiology*, 14, 1234884. <https://doi.org/10.3389/fmicb.2023.1234884>

PUBBLICAZIONI SSD AGR/15

Docenti afferenti:

Prof.ssa Galgano F., Dr. Condelli N., Dr.ssa Di Cairano M.

Pubblicazioni del settore

1. Cela N., Galgano F., Di Cairano M., Condelli N., Scarpa T., Marconi O., Alfeo V., Perretti G. (2023). Development of gluten-free craft beer: Impact of brewing process on quality attributes and consumer expectations for sensory properties. *Journal of Food Science*, 88, (12), 5203–5215. <https://doi.org/10.1111/1750-3841.16786>
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3. Acquaticci L., Angeloni S., Cela N., Galgano F., Vittori S., Caprioli G., Condelli N. (2023). Impact of coffee species, post-harvesting treatments and roasting conditions on coffee quality and safety related compounds. *Food Control*, 149, 109714. <https://doi.org/10.1016/j.foodcont.2023.109714>
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phenolic compounds: influence of geographical origin and genotype. *Journal of Food Measurement and Characterization*, 17(2), 1428–1437. <https://doi.org/10.1007/s11694-022-01711-9>

5. Sportiello L., Favati F., Condelli N., Di Cairano M., Caruso M.C., Simonato B., Tolve R., Galgano F. (2023). Hydrophobic deep eutectic solvents in the food sector: Focus on their use for the extraction of bioactive compounds. *Food Chemistry*, 405, 134703. <https://doi.org/10.1016/j.foodchem.2022.134703>
6. Cela N., Condelli N., Perretti G., Di Cairano M., De Clippeleer J., Galgano F., De Rouck G. (2023). A Comprehensive Comparison of Gluten-Free Brewing Techniques: Differences in Gluten Reduction Ability, Analytical Attributes, and Hedonic Perception. *Beverages*, 9, 18-13. <https://doi.org/10.3390/beverages9010018>
7. Galgano F., Mele M.C., Tolve R., Condelli N., Di Cairano M., Ianiro G., D'Antuono I., Favati F. (2023). Strategies for Producing Low FODMAPs Foodstuffs: Challenges and Perspectives. *Foods*, 12(4), 856. <https://doi.org/10.3390/foods12040856>
8. Di Cairano M., Galgano F., Condelli N., Romano A., Albanese D., Marra F. (2023). Heating Performances of Tomato-Based Dressing Sauces Undergoing Moderate Electric Fields. *Chemical Engineering Transactions*, 104, pp. 181–186. <https://doi.org/10.3303/CET23104031>
9. Cela N., Condelli N., Perretti G., Di Cairano M., Tolve R., Galgano F. (2023). Gluten reduction in beer: Effect of sorghum:quinoa ratio and protein rest time on brewing parameters and consumer acceptability. *Journal of Cereal Science*, 109, 103607. <https://doi.org/10.1016/j.jcs.2022.103607>

PUBBLICAZIONI SSD AGR/16

Docenti afferenti:

Prof. Parente E., Prof.ssa Capece A., Prof.ssa Ricciardi A.M., Prof.ssa Zotta T.

Publicazioni del settore

1. Giavalisco M., Zotta T., Parente E., Siesto G., Capece A., Ricciardi A. (2023). Effect of oil-born yeasts on the quality of extra-virgin olive oils of Basilicata region. *International Journal of Food Microbiology*, 386, 110041. <https://doi.org/10.1016/j.ijfoodmicro.2022.110041>
2. Parente E., Zotta T., Giavalisco M., Ricciardi A. (2023). Metataxonomic insights in the distribution of Lactobacillaceae in foods and food environments. *International Journal of Food Microbiology*, 391-393, 110124. <https://doi.org/10.1016/j.ijfoodmicro.2023.110124>
3. Matera A., Sepe L., Vincenzetti S., Tolve R., Condelli N., Claps S., Genovese F., Ricciardi A., Zotta T., Scarpa T., Di Napoli M.A., Cifuni G.F., Polidori P., Santini G., Scarano L., Altieri G., Di Renzo G.C., Renzi S., Giavalisco M., Galgano F. (2023). Impact of diet supplemented with microencapsulated condensed tannins on cow milk nutritional profile. *International Journal of Food Dairy Technology*, 76(4), 813-87. <https://doi.org/10.1111/1471-0307.12985>
4. Caporusso A., De Bari I., Liuzzi F., Albergo R., Valerio V., Viola E., Pietrafesa R., Siesto G., Capece A. (2023). Optimized conversion of wheat straw into single cell oils by *Yarrowia lipolytica* and *Lipomyces tetrasporus* and synthesis of advanced biofuels. *Renewable Energy*, 202, 184–195. <https://doi.org/10.1016/j.renene.2022.11.059>
5. Siesto G., Pietrafesa R., Tufariello M., Gerardi C., Grieco F., Capece A. (2023). Application of microbial cross-over for the production of Italian grape ale (IGA), a fruit beer obtained by grape must addition. *Food*

Bioscience, 52, 102487. <https://doi.org/10.1016/j.fbio.2023.102487>

6. Torrellas M., Pietrafesa R., Ferrer-Pinós A., Capece A., Matallana E., Aranda A. (2023). Optimizing growth and biomass production of non-*Saccharomyces* wine yeast starters by overcoming sucrose consumption deficiency. *Frontiers in Microbiology*, 14, 1209940. <https://doi.org/10.3389/fmicb.2023.1209940>
7. Pietrafesa R., Siesto G., Tufariello M., Palombi L., Baiano A., Gerardi C., Braghieri A., Genovese F., Grieco F., Capece A. (2023). A multivariate approach to explore the volatolomic and sensory profiles of craft Italian Grape Ale beers produced with novel *Saccharomyces cerevisiae* strains. *Frontiers in Microbiology*, 14, 1234884. <https://doi.org/10.3389/fmicb.2023.1234884>
8. Caporusso A., De Bari I., Giuliano A., Liuzzi F., Albergo R., Pietrafesa R., Siesto G., Romanelli A., Braccio G., Capece A. (2023). Optimization of Wheat Straw Conversion into Microbial Lipids by *Lipomyces tetrasporus* DSM 70314 from Bench to Pilot Scale. *Fermentation*, 9, 180. <https://doi.org/10.3390/fermentation9020180>
9. Gottardi D., Siesto G., Bevilacqua A., Patrignani F., Campaniello D., Speranza B., Lanciotti R., Capece A., Romano P. (2023). Pilot Scale Evaluation of Wild *Saccharomyces cerevisiae* Strains in Aglianico. *Fermentation*, 9, 245. <https://doi.org/10.3390/fermentation9030245>
10. Tesoro C., Acquavia M.A., Giussani B., Bianco G., Pascale R., Lelario F., Ciriello R., Capece A., Pietrafesa R., Siesto G., Di Capua A. (2023). An Interplay between a Face-Centred Composite Experimental Design and Solid-Phase Microextraction for Wine Aroma GC/MS Analysis. *Applied Sciences*, 13, 4609. <https://doi.org/10.3390/app13074609>