

## PROGRAM

### XIV Convegno Nazionale sulla Biodiversità - 1<sup>st</sup> International Conference of Mediterranean Biodiversity, 13-15 September 2023 - Studium 2000, Lecce, Italy

13/09

09:30 Greetings from the Authority / Rector

10:00 - 11:00 Chairman Alberto Basset

*Plenary lecture - Carlo Calfapietra "Nature-Based Solutions approaches for ecosystem restoration"*

11:00 coffee break

11:30 - 13:30 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Alberto Pardossi – session **A. Plant Biodiversity of Terrestrial Ecosystems**

- **Temperature in Vine Growing Future Scenarios across the Apulia Region in Southern Italy** - Coletta A., Alba V., Caponio G., Mallardi D., Vendemia M., Scarano L., Forte G., GentileSCO G.
- **Characterization of the specific phenolic profile of different monovarietal grape pomaces from Salento** - Frontini A., Negro C., Luvisi A., De Bellis L.
- **"The pollen journey": the role of sucrose in maintaining viability and pollen germinability during dispersal in Italian wild type hazelnut accessions** - Brandoli C., Siniscalco C., Sgarbi E.
- **Unveiling the Genetic Diversity and Landscape Genomics of Maize Landraces: Insights into Adaptation and Conservation** - Lezzi A., Stagnati L., Joost S., Lanubile A., Busconi M., Marocco A.
- **Leaf production and quality of wild edible plants grown with wastewater from hydroponic and aquaculture system** - Puccinelli M., Pardossi A., Maggini R., Carmassi G., Botrini L., Galati D., Incrocci L.
- **Impact of climate change on the duration of the phenological cycle of wine grapes in hot-dry areas** - Alba V., Roccotelli S., Gasparro M., Caputo A.R.
- **Morphological, agronomic and nutritional characterization of nine landraces of Apulian unripe melon (*Cucumis melo* L.)** - Somma A., Didonna A., Palmitessa O.P., Durante M., Leoni B., Serio F., Santamaria P.
- **Cumulative Arsenic Impact on Durum Wheat: An Analysis of Italian Biodiversity** - Sami U.R., Aprile A., Sabella E., Accogli R., Benedetti M., Frontini A., De Bellis L.

Aula 3: Chairman Pietro Buzzini - session **B. Microbial Diversity in Agricultural, Food and Environmental Ecosystem**

- **Untangling plant associated microbiomes in *Vaccinium* spp.** - Giese M., Coleine C., Farneti B., Larger S., Pindo M., Giongo L., Donati C.
- **Fungal biodiversity in the Mediterranean Sea, state of the art and future perspectives** - Prigione V., Poli A., Florio Furno M., Carrasco-Acosta M., Perugini I., Varese G.C.
- **Microbial resources, innovation and fermented foods: echoes from PIMENTO COST Action and different Italian NRRP project activities** - Fragasso M., Ferrara M., Corvino A., Dell'Olio A., Cunedioğlu H., Spano G., Biasioli F., Perrone G., Capozzi V.
- **Study of the fungal microorganisms of *Abies nebrodensis* twigs and needles in its natural habitat** - Barberini S., Emiliani G., Bigazzi F., Della Rocca G., Secci S., Frascella A., Moricca S., Danti R.
- **Novel bacteria as a threat to Salento's holm oaks** - Carluccio G., Sabella E., Greco D., Vergine M., Delle Donne A.G., Nutricati E., De Bellis L., Luvisi A.
- **Plant species for the crop renewal of Salento affected by *Xylella fastidiosa*** - Greco D., Sabella E., Carluccio G., Luvisi A., De Bellis L.
- **Managing biodiversity loss and restoring cultural ecosystem services: a choice experiment in the Salento area** - Pacifico A.M., Agnusdei G.P., Miglietta P.P., Malorgio G.
- **Biological soil crusts succession and dynamic: the potential interactions between bacterial, fungal and metazoan communities in Arctic Svalbard** - Mugnai G., Pinchuk I., Sannino C., Turchetti B., Canini F., Zucconi L., Tiziani R., Borruso L., Mimmo T., Buzzini P.

13:30 Lunch

14:30 - 15:30 Chairman Massimiliano Renna

**Plenary lecture - Mario Marino FAO "Future strategies for plant germplasm conservation: the case for a single national coordination center"**

15:30 - 17:00 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Capozzi Vittorio - session **C. Biodiversity, Sustainability, Land and Landscape**

- **Validation of Ocean using Loggerhead Sea Turtle satellite tags in the Mediterranean Sea - Maglietta R., Caccioppoli R., Cherubini C., Saccotelli L.**
- **Assessing Risks to Water Resources in the Salento Peninsula - Mammadova L., Russo R., Negri S.**
- **Building thermal performance enhancement using nature-based solutions: green façade behavior in summer and winter - Blanco I., Convertino F., Schettini E., Vox G.**
- **The PRIMA LEGU-MED project: "Legumes in biodiversity-based farming systems in Mediterranean basin" - Martinelli F., Loreto F., Barberi P., Kron Morelli R., von Haaren C., Bekki A., Sikora S., Rodríguez-Navarro D., Nabbout R., Trabelsi D., Yucel D.**
- **An integrated approach for coastal habitat mapping based on autonomous survey and remote operated technologies - Piazzolla D., Scanu S., Bonamano S., Madonia A., Resnati A., Scagnoli E., Varini F., Fersini F., Marcelli M., Coppini G., Piermattei V.**
- **The positive impacts of sustainable and diversified agricultural systems: a case study in the Salento area (Apulia, Italy) - Pizzileo G., Chiriaco M.V.**

Aula 3: Chairman Luigi Musco - session **D. Climate Change and Alien Species**

- **Environmental abiotic stresses on medicinal and aromatic plants - D'Andrea L.**
- **Molecular characterization of the white-clawed crayfish *Austropotamobius pallipes* in Northern and Central Italy to assess biodiversity and aid conservation plans - Colli L., Riccioni G., Somenzi E., Palazzo M., Barbato M., Petretto E., Morabito S., Palumbo M.A., Ajmone-Marsan P.**
- **Application fields and perspectives of a newly designed Illumina® 61K SNP chip for dromedaries - Bruno S., Ciani E.**
- **The rapid decline of the invasive species *Ailanthus altissima* under the challenge of *Verticillium dahliae*: a physicochemical study - Pisuttu C., Scimone G., Ricci G.P., Cotrozzi L., Nali C., Pellegrini E., Lorenzini G.**
- **Orchids and the city: the occurrence of wild orchids in urban systems - Sgarbi E., Mortada A., Santini C.**

17:00 – 17:30 coffee break

17:30 - 19:30 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Antonio Coletta - session **E. Biodiversity, Culture and Well-being**

- **The cultivation of chestnuts (*Castanea sativa* Mill.) in Umbria. A resource for the development of local communities, a collective heritage of biodiversity and a source of resilience towards current social and environmental challenges - Gramaccia M., Mattioni C., Moretti F., Dorillo A., Concezzi L.**
- **Genotyping-by-Sequencing Defines Genetic Structure within the "Acquaviva" Red Onion Landrace - Delvento C., Pavan S., Miazzi M.M., Marcotrigiano A.R., Ricciardi F., Ricciardi L., Lotti C.**
- **Traditional foods as a means to preserve the genetic diversity of Grapevine (*Vitis* spp.) in Tunisia - Saddoud Debbabi O., Ben Slimane Harbi M., Bouhlal Ben Hadj Alouane R., Snoussi H., Montemurro C., Miazzi M.M.**
- **Micropropagation techniques for the conservation of biodiversity. The case of two rare species *Phyteuma cordatum* Balb and *Empetrum hermaphroditum* Hagerup - Caser M., Pace I., Chiavazza P.M.**
- ***Lagenaria siceraria* landraces and biostimulatory action of a seaweed extract drive young shoot production, mineral profile and functional quality - Consentino B.B., Vultaggio L., La Bella S., Sabatino L.**
- **Oleario. Where Italy leaves its mark - Verrascina M., Zanetti B., Guidarelli L., Castellotti T., Reda E., Cariello M., Ruberto R., Polito A., Azzini E., Lo Feudo G., Romano E., Santilli E., Zelasco S., Pellegrino M., Giannetti C.**
- **Grafting eggplant onto underutilized *Solanum* species and *A. brasilense* affect plant performance - Vultaggio L., Consentino B.B., La Bella S., Sabatino L.**

Aula 3 Chairman Monica Miazzi - session **C. Biodiversity, Sustainability, Land and Landscape**

- **Chemical element distribution analysis in a wild population of *Dittrichia viscosa* L. in the area of Taranto (Italy) - Barozzi F., D'Alessandro G., Anglana C., Capaci P, Del Piano I., Letizia F., Migoni D., Papadia P., Fanizzi F.P., Di Sansebastiano G.P.**
- **Biobanking for genetic resources conservation: *Abies nebrodensis* a case of study - Benelli C., Lambardi M., Tarraf W., Izgu T., Jouini N., Germanà M.A., Danti R.**
- **Biodiversity Friend® certification standards for biodiversity and landscape conservation - Caoduro G., Caoduro C., Ruzzier E., Tormen N.**
- **Modeling the oil spill pollution as an ecotoxicological stressor in the Mediterranean - Liubartseva S., Canu D.M., Butenschön M., Coppini G., Sepp Neves A.A.**
- **Exploiting wild relatives of *Solanum lycopersicum* for salt tolerance traits as a tool to enhance agrobiodiversity - Cialli S., Trivellini A., Carmassi G., Incrocci L., Mensuali A.**
- **Assessment of biodiversity indicators in beech forests with diverse management systems in the Italian Apennines - Parisi F., Vangi E., Mazziotta A., Paffetti P., Vettori V., Garosi C., Londi G., Marchetti M., Tognetti R., Chirici G., Travaglini D.**
- ***Camelina sativa*: an ancient crop worthy of re-evaluation - Piergiovanni A.R., Pozzo S., Brambilla I.M., Ponzoni E., Alberghini B., Zanetti F., Galasso I.**
- **In Apulia (Italy) a regional conservation center as tool for territorial development, preservation of local germplasm, development of new food product and varietal innovation of the Mediterranean woody crops - Venerito P., La Notte P., Pirolo C.S., Montemurro C., Roseti V., Catucci L., Palmisano D., Savino V.N.**

14/09

09:30 - 10:30 Chairman Massimiliano Renna

*Plenary lecture - Alessandro Natalini "Biodiversity: a fundamental resource for vegetable varieties"*

10:30-11:00 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Luigi De Bellis - session **A. Plant Biodiversity of Terrestrial Ecosystems**

- **A new proposal for estimating the number of vascular plants: Four case studies - Di Biase R.M., Marcelli A., Fattorini L.**
- **Characterization of the ancient Calabrian olive variety *Fidusa* - Nicoletti R., Zelasco S., Rizzo S., Romano E., Benincasa C., Pellegrino M., Godino G., Ceraudo R., Perri E**

Aula 3: Chairman Pier Paolo Miglietta - session **F. Ecosystem Services, Social Impact and Policies**

- **Effective governance of Protected Areas to enhance regional development: an analysis of stakeholder's perspectives - Coluccia B., Porrini D.**
- **Supply Chain Strategies selection for Biodiversity Conservation in the Agri-Food Sector - Krstić M., Agnusdei G., Tadić S., Miglietta P.P.**

11:00 - 11:30 coffee break

11:30 - 13:30

Aula 7 Marti: Chairman Erika Sabella and Luigi De Bellis

- **Transforming Taxonomy in the field to tackle biodiversity loss: the TETTRIs initiative - León Monedero M.**
- **5-minute poster presentations all-inclusive (3 min + 2 min) Session B, D, E, F, and G**

13:30 Lunch

14:30 - 15:30 Chairman Pietro Buzzini

*Plenary lecture - Cristina Varese "Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy"*

15:30 - 16:30 Chairman Pier Paolo Miglietta

*Plenary lecture - Angelo Frascarelli "Biodiversity in European Policies"*

16:30 - 17:00 coffee break

17:00 -18:00 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Giulia Furfaro - session **G. Animal Biodiversity & Interaction Between Biota**

- **Molecular Variability of *Helicotylenchus* populations in Italy** - Ajobiewe E., Fanelli E., Troccoli A., Vovlas A., D'Addabbo T., Michelon L., Della Torre D., De Luca F.
- **Big Data analytics for biodiversity conservation with DataLabs: LifeWatch Italy Collaborative Coding Platform** - De Leo F., Basset A., Di Muri C., Mazzoni S., Pulieri M., Turrisi G., Rosati I.
- **Dietary supplementation with extruded linseed and oregano in autochthonous "Facciuta Lucana" kids: effects on meat parameters and sensory quality** - Colonna M.A., Tarricone S., Cosentino C., Freschi P., Giannico F., Carbonara C., Selvaggi M., Ragni M.
- **The endangered Austrian Turopolje pigs: genetic relations and inbreeding level compared to Austrian and Balkan pig breeds using genome-wide SNP data** - Cannarella M.S., Ciani E., Sölkner J., Mészáros G.

Aula 3: Chairman Luigi Musco - session **F. Ecosystem Services, Social Impact and Policies**

- **The management plan of the lake ecosystem adopted by the Trasimeno Fisheries Cooperative to protect the fish populations of Lake Trasimeno. The case study of the Trasimeno pike (*Esox flaviae*) and the Trasimeno carp (*Cyprinus carpio* L.)** - Caffarelli M., Cocchini A., Lucentini L., Gramaccia M., Dorillo A., Concezzi L.
- **Unlocking Economic Benefits through Ecosystem Services valuation: A PES scheme for Improving Resilience of Bivalve Mariculture in the Little Sea of Taranto** - Pacifico A.M., Mulazzani L., Malorgio G.
- **An ecosystem condition-based approach for accounting purposes: Assessing the economic value of the carbon sequestration capacity of *Posidonia oceanica* at Tremiti Islands Marine Protected Area** - Pisani D., De Lucia C., Paziienza P., Mastrototaro F., Tursi A., Chimienti G.
- **Tree-related microhabitats and inventory parameters in a new index for mapping and assessing forest biodiversity** - Spina P., Lingua E., Marchetti M., Santopuoli G.

18:00 - 19:30 Aula 7 Marti - **ASBM Member Assembly**

20:30 **Social dinner**

**15/09**

09:30 - 10:30 Chairman Federica Blando

**Plenary lecture - Vittorio Capozzi "Biodiversity in Mediterranean fermented foods and beverages: from tradition to innovation"**

10:30 - 11:00 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Elena Ciani - session **G. Animal Biodiversity & Interaction Between Biota**

- **Ancient and new phytosanitary problems threaten the revival of fig cultivation in Italy** - Bella S., Las Casas G., Giuffrida A., Ferlito F.
- **Building up collective knowledge through semantics** - Pulieri M., Di Muri C., Titocci J., Tarallo A., Basset A., Rosati I.

11:00 coffee break

11:30 - 13:30 oral presentations of 15 minutes:

Aula 7 Marti: Chairman Antonio Blanco - session **A. Plant Biodiversity of Terrestrial Ecosystems**

- **Evaluation of germination power and volatile compounds in *Crithmum maritimum* L. specimens from different stations in the Salento area** - Accogli R., Renna M., De Bellis L., Negro C., Aprile A.
- **Transcriptomic and metabolomic analysis reveals the regulation mechanism of color diversity in *Passiflora* genus** - Nutricati E., Negro C., Sabella E., Greco D., De Bellis L.
- **Analyzing the diversity of forest ecosystems and trees outside forests: Two case studies** - Di Biase R.M., Franceschi S., Marcelli A., Marcheselli M., Pisani C.
- **Genetic diversity of the "Cavasso and Val Cosa" onion landrace from Friuli** - De Paoli E., Chiabà C., Dalla Costa L., De Infanti R., Miceli F.

- **Valorisation of the 'Carosello Scopatizzo' (*Cucumis melo* L.) through a cultivation system with high water and nutrient use efficiency** - Palmitessa O.D., Somma A., Didonna A., Leoni B., Renna M., Santamaria P.
- **Six *Chlorella* sp. microalgal strains applications for wastewater treatment from soilless crops at laboratory and pilot scale in greenhouse** - Ciurli A., Bacci L., Botrini L., Carmassi G., Pardossi A.
- **Genetic mapping of flavonoids content in durum wheat** - Sgaramella N., Nigro D., Pasqualone A., Signorile M.A., Laddomada B., Sonnante G., Blanco E., Simeone R., Blanco A.
- **Biodiversity of the Lamiaceae Family in Algeria** - Benabdallah A., Boumendjel M., Hamel T., Nasri H.

Aula 3: Chairman Alberto Basset - session **F. Ecosystem Services, Social Impact and Policies**

- **How to Track Biodiversity in Vineyards? The Role of Technology** - Agnusdei G.P., Coclite F., Miglietta P.P.
- **Digitization of Natura 2000 Standard Procedures for Monitoring *Cerambyx cerdo* Populations in Apulia** - Altieri G.M., Santarcangelo V., Corriero G., Tarasco E.
- **Are medicinal plants an effective biodiversity conservation tool? A MCDM approach** - De Salvatore G., Coluccia B., De Leo F.
- **From the preservation of agro-biodiversity to the spread of minor grapevine varieties in the Veneto region** - Gardiman M.
- **The conservation variety regime for preserving horticultural biodiversity in Italy** - Didonna A., Renna M., Santamaria P.
- **Propensity of farmers towards ecosystem services provision with tree landraces** - Petrontino A., Frem M., Rizzitiello F., Bozzo F., Fucilli V.
- **Biodiversity conservation and ecosystem restoration: the challenges and opportunities of the new European Nature Restoration Law** - Servadei L.
- **Sustainable regeneration as a driver of biodiversity: a review and content analysis** - Tunno V., Miglietta P.P.

13:30 Lunch

14:30 - 17:00:

Aula 7 Marti: Chairman Alessio Aprile and Massimiliano Renna

- **5-minute poster presentations all-inclusive (3 min + 2 min) Session A and C**

**During the entire conference, three slides per abstract will be projected continuously in Aula 6.**