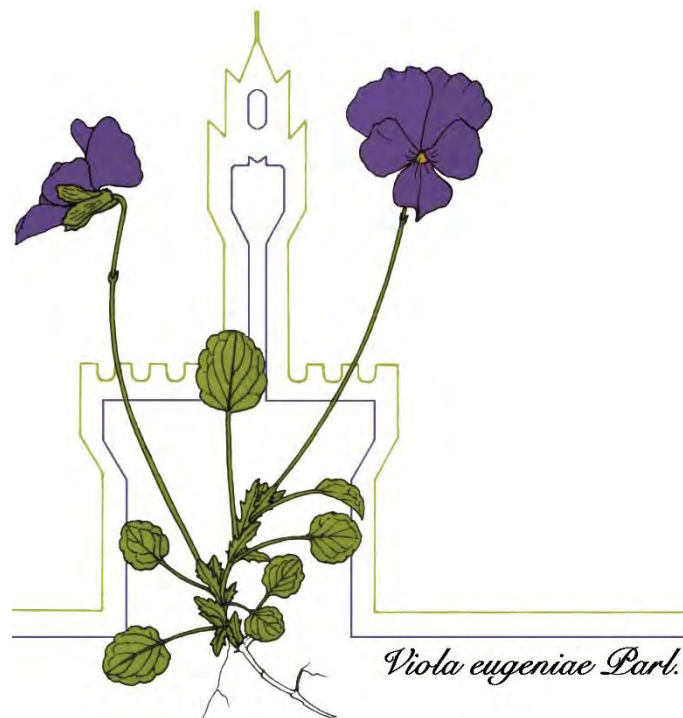


117° Congresso della Società Botanica Italiana

VIII INTERNATIONAL PLANT SCIENCE CONFERENCE (IPSC)

BOLOGNA, 7 - 10 SEPTEMBER 2022



ABSTRACTS

KEYNOTE LECTURES, COMMUNICATIONS, POSTERS

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VIII INTERNATIONAL PLANT SCIENCE CONFERENCE (IPSC)

Complesso Belmeloro, Alma Mater Studiorum Università di Bologna, 7 - 10 September 2022

Programme

Wednesday 7 September 2022

- 9:00-12:00 Registration and poster installation
- 12:00-13:00 Welcome lunch
- 13:30-14:00 **Opening ceremony**

Macro Symposium

THE ROLE OF PLANT ECOLOGY AND VEGETATION SCIENCE IN ECOSYSTEM RESTORATION: THEORY AND PRACTICE

Symposium 1

VEGETATION SCIENCE AND PLANT LANDSCAPE RESTORATION: RESEARCHES AND PERSPECTIVES (Chairpersons G. Bazan and S. Casavecchia)

Key words: vegetation dynamics, habitat restoration, habitat assessments, plant landscape conservation, landscape planning

- 14:00-14:30 • **Carlo Blasi**, Sapienza University of Rome, Italy (25 + 5 min)
“New tools of plant ecology and plant sociology to assess, recover and restore the natural capital”

14:30-15:45

Communications

- **Miris Castello**, Alfredo Altobelli, Francesco Liccari et al. (12 + 3 min)
“Vegetation survey and mapping of Lake Doberdò: an analysis for the assessment of habitat conservation status of a disappearing lake of the Classical Karst (NE Italy)”
- **Marco Canella**, Marco Baldin, Simona Bardi et al. (12 + 3 min)
“Project FORESTALL: connecting habitat restoration to social inclusion in the Ramsar site of Valle Averte, southern lagoon of Venice (N-Adriatic Sea)”
- **Giulio Tesei**, Paride D'Ottavio, Mattia Di Silvestri et al. (12 + 3 min)
“The landscape of Central Apennine wooded grasslands: space-time dynamisms and future perspectives”
- **Carmelo Maria Musarella**, Silvio Bagnato, Giuseppe Bombino et al. (12 + 3 min)
“Urban green infrastructures design for the ecological and landscape restoration: the case of the Metropolitan City of Reggio Calabria (southern Italy)”
- **Pietro Minissale**, Salvatore Cambria, Fabio Cilea et al. (12 + 3 min)
“Plant conservation and restoration in the coastal wetlands of Sicily: the case studies of the Natura 2000 sites "Saline di Priolo" and "Pantano Ponterio””

15:45-16:15 Coffee Break

Symposium 2

RESTORATION OF PLANT COMMUNITIES: ECOLOGICAL BACKGROUND AND PRACTICAL EXPERIENCES (Chairpersons S. Maccherini and G. Filibeck)

Key words: plant community restoration, historical ecosystem references, restoration monitoring, restoration and climate change, rewilding

16:15-17:00 • **Rasmus Ejrnæs**, Aarhus University, Denmark (35 + 10 min)
“The restoration of natural plant communities – disturbing baselines and even more disturbing animals”

17:00-18:00

Communications

- **Silvia Assini, Gabriele Gheza**, Juri Nascimbene et al. (12 + 3 min)
“Restoration of dry-acidic grasslands and heathlands in the western Po Plain (northern Italy – Life Drylands project)”
- **Pierluigi Cortis**, Antonio De Agostini, Donatella Cogoni et al. (12 + 3 min)
“Seed conservation and development in metallicolous and non-metallicolous orchid populations”
- **Benedetta Gori**, Carla Lambertini, Alessandra Zambonelli (12 + 3 min)
“Riparian vegetation management along artificial channels: first effects on plant community ecology of "Life Green4Blue"”
- **Alessia Masi**, Cristiano Vignola, Lucrezia Masci et al. (12 + 3 min)
“Rewilding vs. cultivation, what plants can tell us about demography after pandemics”

18:00-19:30

Poster session

Thursday 8 September 2022

Symposium 3

BIODIVERSITY: A CHALLENGE FOR NATURE CONSERVATION AND ENVIRONMENTAL MONITORING (Chairpersons S. Loppi and J. Nascimbene)

Key words: biodiversity; nature conservation; environmental monitoring

9:00-9:30 • **Bettina Weber**, University of Graz, Austria (25 + 5 min)
“Cryptogamic communities: their biodiversity, functionality, and roles in global biogeochemical cycling in times of global change”

9:30-10:45

Communications

- **Francesco Maria Sabatini**, Borja Jiménez-Alfaro, Ute Jandt et al. (12 + 3 min)
“Global patterns of vascular plant alpha diversity”
- **Stefano Martellos**, Pier Luigi Nimis, Matteo Conti et al. (12 + 3 min)
“Digitization and geolocation of specimens from Italian lichen herbaria”
- **David Dolci**, Alessandro Chiarucci, Lorenzo Peruzzi (12 + 3 min)
“Identification of multi-species suitable areas for assisted colonization under climate change scenarios”
- **Simonetta Bagella**, Claudia Angiolini, Marco Caccianiga et al. (12 + 3 min)
“Robotic Monitoring of Habitats: good news from the dune front”
- **Sergio Enrico Favero-Longo**, Enrica Matteucci, Maria Giuseppina Ruggiero (12 + 3 min)
“Rock drawings in Valle Camonica: Monitoring lichen diversity and the efficacy of biodeterioration control towards a joint conservation of the cultural and natural heritage”

10:45-11:15

Coffee Break

Symposium 4

PLANT SPECIES CONCEPTS IN THE 21TH CENTURY (Chairpersons G. Cristofolini and G. Domina)

Key words: taxonomy, speciation, evolution, natural selection, genome

11:15-11:45 • **Dirk Carl Albach**, University of Oldenburg, Germany (25 + 5 min)
“The species in the age of phylogenomics - Types, hybrids and convergence”

11:45-13:00 **Communications**

- **Jacopo Franzoni**, Giovanni Astuti, Gianluigi Bacchetta et al. (12 + 3 min)
“Preliminary genetic analyses of central Mediterranean taxa in the *Dianthus virginicus* complex (Caryophyllaceae) suggest taxonomic inflation”
- **Antonio Giacò**, Lucia Varaldo, Gabriele Casazza et al. (12 + 3 min)
“An integrative taxonomic study of *Santolina* (Asteraceae) from southern France and north-eastern Spain”
- **Eleonora Manzo**, Salvatore Tomasello (12 + 3 min)
“Integrative taxonomy in the 21st century. An example from the intricate plant genus *Xanthium* (Ambrosinae, Asteraceae)”
- **Martina D’Agostino**, Giulia Albani Rocchetti, Marta Carboni et al. (12 + 3 min)
“Study of the Italian and French populations of *Vicia cusnae* (Fabaceae)”
- **Giulio Barone**, Emilio Di Gristina, Gianniantonio Domina (12 + 3 min)
“On the concept of species in cultivated plants and its consequences in alien species and CWR”

13:00-14:00 Lunch, **Poster session**

Symposium 5

PRIMARY AND SECONDARY METABOLITES PRODUCED BY AQUATIC PHOTOTROPHS WITH IMPLICATIONS FOR THE ENVIRONMENT AND BIOECONOMY (Chairpersons R. Pistocchi and M. Cantonati)

Key words: biodiversity, biotechnology, environmental issues, infochemicals

14:00-14:30 • **Ana Bartual Magro**, Universida de Càdiz, Spain (25 + 5 min)
“Allelopathic interactions in the diatom phycospheres: ascertaining the ecological role of polyunsaturated aldehydes in the ocean”

14:30-15:45 **Communications**

- **Saverio Savio**, Riccardo Turchi, Debora Paris et al. (12 + 3 min)
“Biorefining the diatom *Staurisirella pinnata* for drug discovery”
- **Mara Simonazzi**, Laura Pezzolesi, Tânia K Shishido et al. (12 + 3 min)
“Unveiling new potential toxic metabolites from cyanobacteria through genome mining: a case study from an Italian drinking water reservoir”
- **Tomas Morosinotto**, Francesca Bucci, Alessandra Bellan (12 + 3 min)
“Algae biomass as sustainable source of protein and lipids”
- **Damiano Spagnuolo**, Viviana Bressi, Antonio Manghisi et al. (12 + 3 min)
“Influence of aqueous phase from hydrothermal carbonization (AHL) of *Sargassum muticum* (Phaeophyceae) on germination and growth of *Phaseolus vulgaris* (Fabaceae)”
- **Simona Armeli Minicante**, Lucia Bongiorni, Amelia De Lazzari (12 + 3 min)
“Bio-based products from Mediterranean seaweeds and their opportunities in the bioeconomy field”

15:45-16:15 Coffee Break

Symposium 6

URBAN GREEN-SPACE PLANNING AND MANAGEMENT: FROM FUNCTIONAL ASPECTS TO ECOSYSTEM BENEFITS

(Chairpersons M. Galloni and F. Orlandi)

Key words: urban ecosystems, urban green areas, ecosystem benefits, citizen science, environmental education, urban ecological corridors, urban flora

16:15-16:45 • **Mario Balzan**, Malta College of Arts, Science and Technology, Malta (25 + 5 min)
“Mainstreaming nature in urban green space planning and management”

16:45-18:00 **Communications**

• **Marta Pianta**, Mariasole Calbi, Alexandre Changenet et al. (12 + 3 min)
“Plant functional groups and vegetation dynamics within urban ecosystems: the ECOLOPES’ project approach”

• **Giulia Capotorti**, Laura Zattero, Sandro Bonacquisti et al. (12 + 3 min)
“On biodiversity friendly Green Infrastructure planning: contribution of plant ecology to the monitoring and valorization of peri-urban environments in the Metropolitan City of Rome (Mediterranean Italy)”

• **Giulia Santunione**, Alice Barbieri, Elisabetta Sgarbi (12 + 3 min)
“Analysis of particulate matter trapped by four different shrub species in an urban forest: quantification and characterization”

• Marco Fornaciari, Federico Rossi, **Desirée Muscas** et al. (12 + 3 min)
“Multiple ecosystem benefits of urban green-space: two case studies”

• **Chiara Acquaroli**, Nicola Lothar Herrmann, Simone Flaminio et al. (12 + 3 min)
“Students 4 pollinators: a citizen science project in urban green areas to teach plant diversity and pollinator conservation to young generations”

18:00-19:00 **General Meeting of the Italian Botanical Society (members only)**

20:30-23:30 **Congress dinner**

Friday 9 September 2022

Symposium 7

TRANSLATING PLANT RESEARCH FROM LAB TO LIFE: CELLULAR, MOLECULAR AND BIOTECHNOLOGICAL APPROACHES FOR A SUSTAINABLE DEVELOPMENT

(Chairpersons L. Navazio and M. Lenucci)

Key words: plant cell and molecular biology, plant biotechnology, plant growth and differentiation, plant environment interactions, productivity and sustainability challenges

9:00-9:30 • **Zoe Popper**, National University of Ireland Galway, Ireland (25 + 5 min)
“A wall of opportunities: from adaptation to exploitation”

9:30-10:45 **Communications**

• **Sofia Montanari**, Mirko Salinitro, Annalisa Tassoni (12 + 3 min)
“Root growth response to localized selenium enrichment in soil: a comparison between hyperaccumulator and non-accumulator species”

• **Camilla Badiali**, Valerio Petruccelli, Fabio Sciubba et al. (12 + 3 min)
“Innovative approaches for controlling *Botrytis cinerea* infections in tomato by using poly (lactic-co-glycolic acid) nanoparticles for the vehiculation of antifungals”

- **Paola Malaspina**, Cristina Danna, Laura Cornara et al. (12 + 3 min)
“Characterization of *Eucalyptus cinerea* and *E. nicholii* by-products for agricultural applications”
- **Maria De Benedictis**, Antonia Gallo, Pietro Roversi et al. (12 + 3 min)
“*Arabidopsis thaliana* tolerance to cadmium stress is mediated by endoplasmic reticulum stress sensing”
- **Gianmaria Oliva**, Giovanni Vigliotta, Mattia Terzaghi et al. (12 + 3 min)
“Effect of Plant Growth-Promoting Rhizobacteria on maize seedlings cultivated on saline soil: changes in root morphologies and amelioration of saline stress response”

10:45-11:15 Coffee Break

11:15-12:30

Communications

- Chiara Suanno, Elisa Tonoli, **Stefano Del Duca** et al. (12 + 3 min)
“Pollensomes cargo and markers in *Actinidia chinensis* Planch.”
- **Marco Giovannetti**, Arianna Capparotto, Daniele Castelli et al. (12 + 3 min)
“Leveraging plant natural variation to investigate root phosphate homeostasis”
- **Patrizia Cesaro**, Nadia Massa, Daniela Campana et al. (12 + 3 min)
“Effects of mycorrhizal inoculation on responses of *Solanum lycopersicum* in the early stages of the symbiosis”
- **Martina Cerri**, Sara Cannavò, Alma Costarelli et al. (12 + 3 min)
“Disentangling the interaction between rice and *Azolla filiculoides*”
- **Ylenia De Luca**, Niklaus Zemp, Antonia Cristaudo et al. (12 + 3 min)
“Development of molecular markers for rapid sex screening in *Cycas revoluta* and in *Ginkgo biloba*”

12:30-14:00 Lunch

Symposium 8

FUNGI: α -BIODIVERSITY, ECOSYSTEM SERVICES, OPEN SCIENCE (Chairpersons G. Venturella and L. Nicola)

Key words: biodiversity, conservation, species distribution, social network data sharing web sites, ecosystem services, citizen science

- 14:00-14:30 • **Gregory M. Mueller**, Chicago Botanic Garden, Illinois, USA (25 + 5 min)
“Building on interactions between the professional and non-professional mycological communities to advance fungal conservation”

14:30-15:45

Communications

- **Claudia Perini**, Irene Mazza, Elena Salerni (12 + 3 min)
“The Fungal communities of Sieneze “biancana” badlands”
- **Marta Elisabetta Eleonora Temporiti**, Lidia Nicola, Solveig Tosi (12 + 3 min)
“The influence of plastic pollution on soil fungal biodiversity”
- **Federica Spina**, Viktoria Ilieva, Davide Ferrero et al. (12 + 3 min)
“Exploiting the fungal community against plastic polymers”
- **Simone Di Piazza**, Grazia Cecchi, Paolo Vassallo et al. (12 + 3 min)
“Truffle and ecosystem services: the hidden potential of the Ligurian countryside”
- **Nicola Baldoni**, Mara Rondolini, Francesco Prosperi et al. (12 + 3 min)
“Preliminary approach to mycorrhization of micropropagated linden sprouts with *Tuber borchii*”

15:45-16:15 Coffee Break

Symposium 9

FROM MEDICINAL PLANTS TO HEALTH PRODUCTS THROUGH SPECIALIZED METABOLISM

(Chairpersons M. Germanò and F. Maggi)

Key words: medicinal plants, crude drugs, specialized metabolites, biological activities, natural products

16:15-16:45 • **Juha-Pekka Salminen**, University of Turku, Finland (25 + 5 min)
“Plant tannin analytics and its importance to understanding tannin bioactivity”

16:45-18:00

Communications

- **Marta Ferrati**, Giovanni Benelli, Roman Pavela et al. (12 + 3 min)
“Development of a highly stable *Carlina acaulis* essential oil nanoemulsion for managing agricultural pests”
- **Lorenzo Marincich**, Margherita Bellucci, Mariacaterina Lianza et al. (12 + 3 min)
“Red-fleshed apple: polyphenol profile characterization, antioxidant activity evaluation and development of a green extraction method for anthocyanins recovery”
- **Marinella De Leo**, Valentina Parisi, Valentina Santoro et al. (12 + 3 min)
“Exploring *Punica granatum* L. peels from different southern Italian varieties for their potential healthy value”
- **Milena Masullo**, Zahra Sadeghi, Antonietta Cerulli et al. (12 + 3 min)
“*Perovskia artemisioides* Boiss roots as source of diterpene constituents with *in vitro* anti-inflammatory activity”
- **Antonella Smeriglio**, Cristina Danna, Miriam Bazzicalupo et al. (12 + 3 min)
“The phytochemical profile of leaf and rhizome of *Peucedanum ostruthium* (L.) W. D. J. Koch influences the antioxidant, anti-inflammatory, and wound healing properties of this medicinal plant”

18:00-18:30

Congress Closure

Saturday 10 September 2022

Evento Post-Congress

(Aula A del Complesso Belmeloro, Alma Mater Studiorum Università di Bologna)

“PIÙ NATURA NEGLI ECOSISTEMI URBANI PER IL FUTURO SOSTENIBILE E RESILIENTE DELLE CITTÀ”

9:00-10:30

Saluti delle Autorità e introduzione al Simposio

(Coordina C. Blasi)

- **Giovanni Molari**, Magnifico Rettore Alma Mater Studiorum Università di Bologna
- **Maria Cristina Messa**, Ministra dell'Università e della Ricerca
- **Roberto Cingolani**, Ministro della Transizione Ecologica
- **Enrico Giovannini**, Ministro delle Infrastrutture e della Mobilità Sostenibile
- **Antonio Pietro Marzo**, Generale C.A. Comandante delle Unità Forestali, Ambientali e Agroalimentari dell'Arma dei Carabinieri
- **Marco Marchetti**, Presidente Fondazione AlberItalia
- **Alessandro Chiarucci**, Presidente Società Botanica Italiana
- **Giovanni Maria Flick**, Presidente Emerito della Corte Costituzionale
“Il significato culturale, storico e ambientale dell'inserimento di biodiversità ed ecosistemi nella Costituzione Italiana”

10:30-11:30

Prima sessione

- **Maria Carmela Giarratano**, Capo Dipartimento amministrazione generale pianificazione e patrimonio naturale, Ministero della Transizione Ecologica
- **Alessandra Stefani**, Direttrice Generale Ministero delle Politiche Agricole, Alimentari e Forestali
“Vivaismo forestale al servizio della Biodiversità e del Capitale Naturale”
- **Massimo Labra**, Coordinatore scientifico spoke 'Urban Biodiversity' del Centro Nazionale per la Biodiversità
“Biodiversità funzionale della città: la sfida del Centro Nazionale del MUR”
- **Gemma Calamandrei**, Direttrice del Centro di riferimento per le Scienze comportamentali e la Salute mentale, Istituto Superiore di Sanità
“Aree verdi, resilienza e salute mentale: evidenze sperimentali ed epidemiologiche”

11:30-13:30

Seconda sessione (Coordina A. Chiarucci)

- **M.C. Siniscalco**
“Torino città verde: l'evoluzione degli ultimi anni”
- **R. Gentili**, G. Galasso, C. Montagnani, S. Citterio
“Flora e vegetazione di aree marginali o degradate da recuperare nel Comune di Milano”
- **S.P. Assini**, P. Nola
“Il verde urbano e periurbano nelle ricerche dell'Università di Pavia: passato, presente e futuro”
- **S. Landi**, G. Angelini
“Sviluppo di protocolli per quantificare i servizi ecosistemici delle foreste urbane”
- **L. Zavattoni**, G. Capotorti, S. Bonacquisti, E. Del Vico, F. Manes, V. De Lazzari, G. Scarascia Mugnozza, R. Salvati, G. Eusepi, M. De Horatis, B. Bertani, M. Marchetti
“Scienza della vegetazione applicata alla forestazione urbana e periurbana della Città Metropolitana di Roma capitale”

Dibattito

- **A. Canini**, R. Braglia, E.L. Redi, F. Scuderi
“Piante autoctone per la rigenerazione sostenibile degli ecosistemi urbani”
- A. Lallai, **L. Podda**, M. Sarigu, G. Bacchetta
“Programmazione della sostenibilità delle città del futuro: l'esempio del progetto sul verde pubblico del comune di Assemini (Cagliari)”
- **C.M. Musarella**
“Naturali, sostenibili e... botaniche: le buone pratiche nella pianificazione di interventi naturalistici nella Città Metropolitana di Reggio Calabria”
- **G. Venturella**
“Più natura in città: casi studio in Puglia e Sicilia”

Dibattito

- **Carlo Blasi** - Conclusioni e linee programmatiche per il prossimo futuro

The timetable may be modified

3 = Influence of forest management on microclimate and understorey vegetation in a mixed oak forest

Elisa Carrari, Cristina Gasperini, Marco Cabrucci, Ilaria Santi, Federico Selvi

Department of Agriculture, Food, Environment and Forestry, Laboratories of Applied and Environmental Botany, University of Florence, P. le Cascine 28, I-50144 Firenze, Italy

Forests play an essential role in the mitigation of climate change effects, by limiting temperature extremes and creating microclimatic refuges that can contrast the thermophilization of the biotic communities that live under the tree canopies. Based on recent evidence, forest microclimatic effects are especially pronounced in regions with warm macroclimate, such as the Mediterranean one. Microclimate buffering also depends on forest structure and density, both of which are, in turn, often determined by the type of silvicultural management. Recent findings also supported that the microclimatic alterations caused by wood extraction can determine, in turn, adaptive adjustments in some functional traits of understorey plants, thus also influencing ecosystem functions. Although some of the effects induced by the main forms of silvicultural management on understorey diversity and productivity in some types of broadleaf forests have been already described, their influence on the intraspecific variability of functional traits associated with microclimate changes is still not clear. We therefore started an investigation of these effects in a deciduous mixed oak forest with *Quercus cerris* and *Q. petraea* located in the valley of Mugello, in north Tuscany (Bosco ai Frati). Thanks to its homogeneous site conditions, this semi-planitial forest area represents a suitable model system to compare the effects of two contrasting management types on understory diversity, productivity and leaf functional traits of herbaceous species. To this purpose, in 2021 we installed air and soil temperature dataloggers in three high forest sites and three close coppice-with-standards sites. Forest structural variables and light availability (photosynthetic active radiation, PAR) were determined before surveying understory vegetation in four 5 x 5 m randomly selected quadrats in each of the six sites (24 quadrats). Understorey aboveground productivity (dry weight of herbaceous and woody biomass) was determined in 48 0.5 x 0.5 m plots (two per quadrat). Finally, three locally abundant understorey forest specialist herbs (*Physospermum cornubiense*, *Anemone nemorosa*, *Viola reichenbachiana*) and two more generalist species (*Lonicera caprifolium*, *Cruciata glabra*) were selected and sampled following standard protocols to determine variation in major leaf functional traits (Leaf Area, Specific Leaf Area, Leaf Dry Matter Content). Preliminary results showed that, in the high forest plots, extreme values of temperatures were strongly mitigated, especially their maximum during the hottest period of the year (max T in August was 6°C higher in coppice stands). The coppice understory had a higher productivity, associated with higher light availability, while diversity did not show a clear trend. Species composition in the high forest plots revealed a more shade-tolerant and neutrophilic character, as well as a greater abundance of geophytes and a reduction of the small woody species, compared with the coppice stands, which were instead characterized by more numerous generalist species. Effects on leaf traits were clear, including a significant LA reduction in *A. nemorosa* and *P. cornubiense* in the coppice stands. Moreover, increasing PAR induced a decrease in the SLA of generalists, but an increase in the specialists. Building Grime triangles based on leaf traits (using the Stratify software) we found that forest specialists and generalists were differently affected by management. In fact, forest specialists acquired a more ruderal character in the coppice stands, while generalists were less affected. Present results are still preliminary but seem to support that the coppice-with-standard management, though not reducing overall diversity and increasing understorey productivity, is less effective in buffering macroclimate warming and maintaining microclimatic refuges for forest specialist plants of mixed oak forests. If confirmed, this might help to adopt management strategies that can help to preserve the species composition, ecological profile and optimal functionality of understory communities of our increasingly threatened forests.