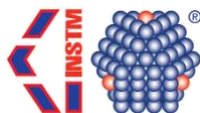




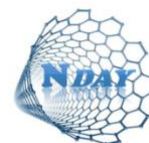
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V-NanoDay



Auditorium Morgagni

Viale Giovanni Battista Morgagni 40, Florence, Italy -

8-9 April 2026

8 April 2026

8:30 REGISTRATION AND WELCOME

9:00 OPENING ADDRESS

University of Florence, Vice-Rector for Teaching, Orientation and Student Services, Prof. Ersilia Menesini

Department of Chemistry "Ugo Schiff", Director, Prof. Stefano Menichetti

University of Parma, Deputy Rector Prof. Fabrizio Storti

Interuniversity National Consortium for Environmental Sciences,

Director, Prof. Nelson Marmioli

National Interuniversity Consortium of Material Science and Technology,

Director, Prof. Andrea Caneschi

Consorzio Italbiotec, Deputy President, Prof. Maurizio Acciarri

Associazione Italiana Biologia e Genetica Generale e Molecolare, Treasurer,

Prof. Chiara Donati, University of Florence

9:50 An homage to Florence: Plenary lecture

Prof. Piero Baglioni, CSGI, Dept. of Chemistry, University of Florence, Italy. "Colloids and Surface Chemistry for Art Conservation"

10:20 Session: "Biochar as an innovative nanomaterial"

Chairs: Prof. Marta Marmioli, Dept. Chemistry, Life Sciences, Environmental Sustainability, University of Parma, Italy

Prof. Alessandra Cincinelli, Dept. Chemistry "Ugo Schiff". University of Florence, Italy.

10:20 Plenary lecture

Dr. Luca Pagano, Interuniversity National Consortium for Environmental Sciences (CINSA), Parma, Italy. “Biochar as a nanomaterial: from implication to innovation”.

10:50-11:30 Coffee break
All posters are on display

11:30 Short presentations

Time	Speaker	Title
11:30	L. Mondanelli – Dept. of Agriculture, Food, Environment and Forestry, University of Florence, Italy	Improving sustainability in forest nurseries: reducing peat and water use through biochar-based growing media in chestnut (<i>Castanea sativa</i> Mill.) seedlings
11:45	V. Scanferla – National Interuniversity Consortium for Environmental Sciences, Italy	Functional comparison between different types of biochar in agriculture [project DeliSoil]
12:00	F. Demichelis – Dept. of Applied Science and Technology, Politecnico di Torino, Italy	The digestate-field nexus: improving agronomic outcomes through biochar-integrated anaerobic digestion
12:15	L. Nolfi – Dept. for Sustainability, ENEA, Italy; Department of Agriculture and Forest Sciences, University of Tuscia, Italy	Biosafety evaluation of soil improvers from food processing side streams: standardized DNA extraction and molecular analysis protocols. [project DeliSoil]

12:30 General discussion

12:45-14:00 Lunch
All posters are on display

14:00 Session: “Nanomaterials and biofertilisers in agriculture”

Chairs: Prof. Jason C. White, The Connecticut Agricultural Experiment Station, New Haven, CT, USA.

Prof. Jos T. Puthur, Dept. Botany, University of Calicut, Kerala, India.

14:00 Plenary lecture

Prof. Jason C. White, The Connecticut Agricultural Experiment Station, New Haven, CT, USA. “Controlling the oxidative stress reactome for climate-resilient crops using nanoscale stimulants”.

14:30 Short presentations

Time	Speaker	Title
14:30	M.A. Muawiya – Dept. of Agricultural and Forestry Sciences, University of Tuscia, Italy	Green nanotechnology for plant health: cellulose nanocrystals restrict systemic movement and mitigate symptoms of <i>Xylella fastidiosa</i> infection
14:45	D. Savy – Dept. of Agricultural Sciences, University of Naples Federico II, Italy	Novel humic-based nanomaterials as antioxidants and carriers of genetic material for RNAi-mediated pest control strategies
15:00	S. Falsini – Dept. of Biology, University of Florence, Italy	Sustainable nanoformulations from olive pomace for enhanced hydroxytyrosol performance in natural pest management
15:15	S. Carlo – Interdepartmental Center for Energy and Environment (CIDEA), University of Parma, Italy	SiO ₂ nanoparticles application in salt stress mitigation: the case of <i>Solanum lycopersicum</i> L.
15:30	A. Brunelli – Dept. of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy	Advanced nano-based materials as antibiotic-free crop protection
15:45	M.M.L.H. Forini – Department of Physics and Chemistry, São Paulo State University, Brazil (online)	Magnetic supraparticles for sustainable delivery systems: release, disintegration, and leaching evaluation

16:00-16:45 Coffee break

All posters are on display

Time	Speaker	Title
16:45	N.G. Capra – Dept. of Biosciences, University of Milan, Italy	Small cyclic peptides as targeted biostimulants to improve plant stress resilience
17:00	F. Martinelli – Department of Biology, University of Florence, Italy.	Gaining insight into ncRNA-driven regulation of molecular and physiological responses to transparent and blue PET micro-nanoplastics in plants.

17:15 Speech from the organizers

Prof. Nelson Marmioli, Interuniversity National Consortium for Environmental Sciences (CINSA), Parma, Italy

Prof. Andrea Caneschi, National Interuniversity Consortium of Material Science and Technology (INSTM), Florence, Italy

Prof. Alessandra Cincinelli, Dept. Chemistry “Ugo Schiff”, University of Florence, Florence, Italy

18:00 General discussion

9 April 2026

8:30 REGISTRATION AND WELCOME

9:00 Session: “Nanomaterials and nanotechnologies in environmental health”

Chairs: Prof. Arturo A. Keller, Bren School of Environmental Science & Management, University of California Santa Barbara, CA, USA.

Prof. Ansa Palojarvi, Natural Resources Institute (Luke), Turku, Finland.

9:00 Plenary lecture

Prof. Arturo A. Keller, Bren School of Environmental Science & Management, University of California Santa Barbara, CA, USA. “Nanomaterials at the Crossroads: Market Trends, Environmental Implications and Applications”.

9:30 Short presentations

Time	Speaker	Title
9:30	I. Barbero – Politecnico di Torino, Italy	Advanced nanoremediation processes for the effective removal of complex mixtures of persistent pollutants from groundwater
9:45	E. Brivio Sforza – Dept. of Earth and Environmental Sciences, University of Milano-Bicocca, Italy	Microalgal-based carbon encapsulated iron nanoparticles as novel adsorbents for PFAS removal: from dye proxies to target compounds
10:00	P. Cinfrignini – Dept. of Physics and Astronomy, University of Florence, Italy	Separation of gold from wastewater via microporous polymeric materials
10:15	B. Cerea – Dept. of Information Engineering, University of Brescia, Italy	Waste based hydrogels for environmental remediation and agricultural applications

10:30-11:15 Coffee break

All posters are on display

Time	Speaker	Title
11:15	B. Rosso – Institute of Polar Sciences, National Research Council, Italy	From inland waters to the coast: characterizing small microplastics (<100 µm) and plastic additives across the Venice Lagoon drainage system
11:30	L. Spagnuolo – Dept. Chemistry and Industrial Chemistry, University of Pisa, Italy	Safe-by-design immobilization of enzymes on cellulose nanocrystals through green bioconjugation strategies

11:45	L. Gabellini – Dept. of Chemistry “Ugo Schiff”, University of Florence and INSTM, Italy	Preparation and characterization of advanced catalytic materials for sustainable green energy conversion
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12:00 Mini-plenary lecture

Prof. Ansa Palojärvi, Natural Resources Institute (Luke), Turku, Finland. “The DeliSoil Project”

12.20 Mini-plenary lecture

Prof. Alessio Malcevski, Dept. Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy. “Biochar: a sustainable win-win approach?”

12:40-14:00 Lunch

14:00 Session: “Nanomaterials and nanotechnologies in health and food”

Chairs: Prof. Giovanni Tosi, University of Modena and Reggio Emilia, Department of Life Sciences, Modena, Italy

Prof. Andrea Caneschi, National Interuniversity Consortium of Material Science and Technology (INSTM), Florence, Italy.

14:00 Plenary lecture

Prof. Giovanni Tosi, University of Modena and Reggio Emilia, Department of Life Sciences, Modena, Italy. “Italian Nanomedicine Platform and Europe Environment”

14:30 Short presentations

Time	Speaker	Title
14:30	M. Castelluccio – Dept. of Medicine and Surgery, University of Parma, Italy	Nanoplastics interfere with osteogenic differentiation of human mesenchymal stromal cells
14:45	R. Caraffi – Dept. Life Sciences, University of Modena and Reggio Emilia, Italy	One-step self-assembly of lactoferrin nanoparticles for gene delivery
15:00	G. Danese – Italian National Institute of Health, Italy	Asymmetric flow field-flow fractionation (AF4) coupled to multiple on-line detectors for the biomonitoring of polystyrene nanoparticles in human urine and serum
15:15	G. Piccinini – Dept. of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy	A nanoceria-based multifunctional strategy to counteract early diabetic cardiomyopathy

15:30-16:15 Coffee break
All posters are on display

Time	Speaker	Title
16:15	C. Pagiatakis – Dept. of Biotechnology and Life Sciences, University of Insubria, Italy	Metal nanoparticles change the transcription profile via epigenetic modulation
16:30	C. Vannucchi – Dept. of Chemistry 'Ugo Schiff', University of Florence, Italy	Natural active-based NLC hydrogels combining pomegranate oil and <i>Sedum telephium</i> polysaccharides for pediatric burn management

16:45 Pitch presentations of 10 selected posters (5 minutes)

17:40 Award ceremony for three best oral presentations and one poster presentation

18:00 Conclusion from the organizer Prof. Nelson Marmioli

18:30 Closure



Training course: “Regulation, Legislation and Safety of Soil Improvers in Agriculture and Food Processing” First announcement

Date and time: 10th April 2026 from 9.00 to 17.00

Location: Auditorium Morgagni, University of Florence, Italy

Course Content:

The course is organized in three sessions:

- EU Regulatory Framework
- Soil Health Assessment: Key Indicators and Methodologies
- Sustainable Soil Improvers: Technologies, Risk Assessment, and Biosafety Challenges

Target audience:

Young scientists, practitioners, stakeholders from EU and beyond.

The participant should have an interest in soil improvers derived from agri-food, in their production, safety assessment, and application.

Practical aspects: Fees: Course registration and participation are free, thanks to Horizon Europe programme **Registration:** register by filling out the form: <https://forms.gle/yumBBa3tX6dRRL9G9>, or use the QR code, or email to delisoiltraining@gmail.com by 20th March '26 (maximum 50 participants)



Organising committee: CINSA: Nelson Marmioli, Marina Caldara, Luca Pagano, Elena Maestri, Caterina Agrimonti, Sara Graziano; **ENEA:** Annamaria Bevivino, Nicola Colonna, Silvia Tabacchioni, Luciana Di Gregorio, Andrea Visca, Manuela Costanzo, Lorenzo Nolfi, Arianna Bindo, in collaboration with **the University of Florence, Italy**



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Poster Session: “Biochar as innovative nanomaterial”

Calamandrei R., Magnetic Resonance Center (CERM), Department of Chemistry "Ugo Schiff", Consorzio Interuniversitario Risonanze Magnetiche di Metalloproteine (CIRMMMP), University of Florence, Italy. *Solid-state NMR for the characterization of hybrid protein-nanoparticles systems.*

Carlo S., Interdepartmental Center for Energy and Environment (CIDEA), University of Parma, Italy. *Biochar and microbial consortia in basil cropping plant physiology and soil microbiome.*

Haouas A., Interdepartmental Center for Energy and Environment (CIDEA), University of Parma, Italy. *Environmental safety and valorization potential of chars produced from municipal plastic waste in a pilot-scale pyro-gasification process.*

Mignini A., Department of Life, Health and Environmental Sciences, University of L'Aquila, Italy. *Biochar as nanocarrier of endophytic bacteria for Helianthus annuus.*

Mumtaz A., Department of Chemistry "Ugo Schiff", University of Florence, Italy. *Development of biochar & graphene oxide bio-based composite adsorbents for CUPs removal.*

Sabira O., Division of Biomaterial Sciences, Department of Zoology, Sree Neelakanta Government Sanskrit College, India. *Novel synthesis of carbon dots from the defensive secretion of Luprops tristis: characterization and evaluation of antimicrobial, anticancer, and antioxidant activities.*

Scanferla V., National Interuniversity Consortium for Environmental Sciences (CINSA), Italy. *Biochars derived from three agri-food residues beyond soil improvers. Morphological, physiological and molecular effects on tomato (Solanum lycopersicum L) and wheat (Triticum durum Desf) plants.*

Poster Session: “Nanomaterials and biofertilizers in agriculture”

Bindo A., Department for Sustainability, ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy; Department of Agricultural, Forest and Food Sciences (DISAFA), University of Turin, Italy. *Biochar-based soil improvers and microbial amendments shape functional rhizosphere microbial communities in tomato fields.*

Caccialupi G., Department of Life Sciences, University of Modena and Reggio Emilia, Italy. *Agronomic innovations in the cultivation of grain sorghum for the resilience of cropping systems.*

Diya A.M., Department of Botany, University of Calicut, India; Department of Chemistry, CHRIST, India. *Carbon dots enhance UV tolerance via light conversion, photosensitization and nutritional improvement in rice.*

Iosa I., Interdepartmental Center on Safety, Technologies and Agri-food Innovation (SITEIA.PARMA), University of Parma, Italy. *Improving crop resilience through nanobiotechnological approaches.*

Joel J.M., Dept. of Botany, University of Calicut, India. *Integrative use of AMF and calcium oxide nanoparticles enhances mycorrhizal colonization and orchestrates redox homeostasis and photosynthetic performance under NaCl stress in rice.*

Kanerva L., University of Eastern Finland, Finland. *Biofertilizer inoculation alters greenhouse gas and volatile organic compound emissions in Triticum aestivum seedlings.*

Lorenz C., ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy. *Plant Growth-Promoting Bacteria as a sustainable method to enhance drought tolerance in tomato and hemp.*

Nolfi L., Department for Sustainability, ENEA, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy; Department of Agriculture and Forest Sciences, University of Tuscia, Italy. *The hidden life of wheat soils.*

Pilotto L., Department of Agrifood, Environmental and Animal Sciences, University of Udine, Italy. *Circular economy and sustainable agriculture: the Cleopatra project Nanohydroxyapatite from biowastes as smart nanofertilizer.*

Purice L., Politecnico di Torino, Italy. *Laboratory investigation of the subsoil transport of sulphur nanoparticles used in viticulture.*

Rustichelli D., Department of Physical and Chemical Sciences (DSFC), University of L'Aquila, Italy; National Interuniversity Consortium of Materials Science and Technology (INSTM), Italy. *Adsorption and controlled release of functionalized metal salts in zeolites with different porosity for agricultural applications.*

Swetha N., Department of Botany, University of Calicut, India. *Nascent g-C₃N₄ and micronutrient doped g-C₃N₄ priming enhances abiotic stress tolerance potential in Oryza sativa*

Poster Session: “Nanotechnologies in environmental health”

Accornero N., IUSS Pavia, Italy; Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy. *Atmospheric particulate matter, health/environmental risk and the role of green and blue spaces: VeBS as Nature Based Solution.*

Armenia I., Department of Biotechnology and Life Sciences, University of Insubria, Italy. *Chitosan nanocarriers for CRISPR/Cas9 delivery in Hermetia illucens for PETase expression.*

Bardelli R., Centro Ricerche Produzioni Animali (CRPA), Italy. *A case of study: Application of best practices to improve the sustainability of dairy farms in Italy.*

Cerea B., Department of Information Engineering, University of Brescia, Italy; CNR-INO, Italy. *Hybrid waste-based chitosan hydrogels for simultaneous adsorption and photodegradation of organic pollutants in water.*

Ciani M., Department of Agriculture, Food, Environment and Forestry (DAGRI), University of Florence, Italy. *Cyanobacteria as green biofactories: synthesis of silver nanoparticles and their antifungal potential against plant pathogens.*

Cinelli P., Department of Civil Industrial Engineering, University of Pisa, Italy; Institute for Physical and Chemical Processes, National Research Council, Italy. *Polybutylenesuccinate-co-adipate (PBSA), a versatile, highly biodegradable matrix polymer for composites and nanocomposites with silica and nano cellulose.*

Corami F., Institute of Polar Sciences, National Research Council, Italy; Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University of Venice, Italy. *Anthropogenic tracers in Venice Lagoon and in its drainage basin: characterization of small microplastics (< 100 µm) and plastic additives in sediments.*

di Domenico K., Italian National Institute of Health, Italy. *Eco-anxiety and Urban Health: The Impact of Nature Loss in the Italian Context.*

Dos Anjos Guimarães G.A., Laboratório de Oceanografia Biológica and Centro de Estudos Avançados da Biodiversidade, Programa de Pós-Graduação em Ciências Ambientais (PPGCA), Universidade Federal do Pará, Brazil. *Microplastic contamination in the Amazon River Delta: a first integrative approach.*

Dos Anjos Guimarães G. A., Instituto de Ciências Exatas e Tecnologia, Universidade Federal do Amazonas, Brazil; Instituto de Geociências, Universidade Federal do Pará, Brazil. *Severe drought intensifies microplastic accumulation in surface waters and sediments of the Amazon River.*

Dos Anjos Guimarães G. A., Laboratório de Oceanografia Biológica and Centro de Estudos Avançados da Biodiversidade, Universidade Federal do Pará, Brazil. *Spatial heterogeneity and local control of microplastic distribution in Amazonian rivers.*

Firdous K.A., Department of Botany, Sree Neelakanta Government Sanskrit College, India. *Green synthesis of silver nanoparticles using *Alternanthera tenella* Colla: multifunctional bioactivities, metal sensing, and enhancement of chromium phytoextraction.*

Lacchetti I., Environmental and Health Department, Italian National Institute of Health, Italy. *Assessing nanoplastic neurotoxicity with the zebrafish embryo model.*

Lova P., Department of Chemistry and Industrial Chemistry, University of Genova, Italy. *Boosting photocatalytic performance in thin-film systems.*

Mancini A., Italian National Institute of Health, Italy. *Biodiversity restoration and nanotechnologies.*

Palombella G., Ca' Foscari University of Venice, Italy; Institute of Polar Sciences, National Research Council, Italy. *What are we missing? Plastic additives in a drinking water source revealed by non-targeted screening.*

Peralta I., Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy. *Untargeted UHPLC-HRMS combined with multivariate statistics to reveal the effect of nanoparticle-enriched biochars on metabolomics of basil.*

Resmi M.S., Department of Botany, Sree Neelakanta Government Sanskrit College, India. *Microbial and nanoparticle mediated enhancement of phytoextraction in *Alternanthera tenella* exposed to multi-metal stress.*

Ritarossi C., Italian National Institute of Health (ISS), Italy. *Towards new approach methodologies for micro- and nanoplastics hazard identification: comparative insights on polystyrene and biodegradable particles.*

Salzano de Luna M., Department of Chemical, Materials, and Production Engineering, University of Naples Federico II, Italy. *Soot-derived carbon aerogels as sustainable porous platforms for adsorption applications.*

Stefanović L., Interdepartmental Centre for Food Safety, Technologies and Innovation for Agri-food (SITEIA.PARMA), University of Parma, Italy. *Biochar as a driver of the life-supporting capacity of agricultural soil: effects on soil mesofauna.*

Tebaldi B.S., Universidade Federal do Rio de Janeiro, Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa em Engenharia, Brazil. *Abundance, characteristics, and export of microplastics in urban channels of Central Amazonia, Brazil.*

Tebaldi B.S., Universidade Federal do Rio de Janeiro, Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa em Engenharia, Brazil. *Spatial distribution and composition of solid waste pollution along the banks of the Amazon River, Brazil.*

Tebaldi B.S., Universidade Federal do Rio de Janeiro, Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa em Engenharia, Brazil. *Microplastic pollution in surface water and sediments of Lake Canaçari, Central Amazonia.*

Poster Session: “Nanomaterials and nanotechnologies in health and food”

Alberti S., Department of Chemistry and Industrial Chemistry, University of Genova, Italy. *Microplastic contamination in samples of nephrological interest revealed by micro-Raman spectroscopy.*

Anderlini A., Department of Life Sciences, and HIP-TECH PhD Program, University of Modena and Reggio Emilia, Italy. *Formulation strategies for a natural-derived small molecule against iron overload disorders.*

Barone L., Department of Biotechnology and Life Sciences, University of Insubria, Italy. *Aged polystyrene leachates affect human dental pulp stem cells.*

Battistini B., National Institute of Health, Italy. *Metal-based nanoparticles in tattooed individuals: insights from human biomonitoring before and after laser-assisted tattoo removal.*

Berto M., Department of Life Sciences, University of Modena and Reggio Emilia, Italy. *Detection of biomarkers through organic electronic sensors.*

Calisi N., Department of Industrial Engineering, University of Florence, Italy; National Interuniversity Consortium of Materials Science and Technology (INSTM), Italy. *Flexible inorganic perovskite thin-films via PVD for real-time dosimetry: from radiotherapy to lunar exploration.*

Condello M., National Center for Drug Research and Evaluation, National Institute of Health, Italy. *Plant-derived nanovesicles: a new drug delivery system for cancer therapy.*

Cuoghi S., Health Innovative Products and Technologies (HIP-TECH) PhD Program and Department of Life Sciences, University of Modena and Reggio Emilia, Italy. *Electrospun PVA nanofibers embedding LNPs for regenerative medicine: a proof-of-concept study.*

Luche S., Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy. *A quantum model organism for quantum dots study.*

Maffei G., Department of Biological, Geological and Environmental Science, University of Bologna, Italy. *NAM-based approaches to understand the toxicological profile of ultrafine PM.*

Salmoiraghi G., Department of Chemistry, Life Sciences and Environmental Sustainability, University of Parma, Italy. *Polymethylmethacrylate nanoplastics mitigate cadmium effects on human mesenchymal stromal cells.*

Sedani G., Interdepartmental Center for Energy and Environment (CIDEA), University of Parma, Italy. *Nanoengineered surfaces to reduce adhesion of microbes.*

Sforzi L., Department of Chemistry “Ugo Schiff”, University of Florence, Italy. *More than just fish: experimental design for microplastic analysis in lipid-rich food.*

Tagliavini S., Dept. Life Science and Health Innovative Products and Technologies (HIP-TECH) PhD Program, University of Modena and Reggio Emilia, Italy. *PLGA–mannose nanoparticles produced by scalable microfluidics for cancer therapy.*

Yousefniayehromi Z., Department of Agricultural, Food, Environmental and Animal Sciences, University of Udine, Italy; *Impedimetric aptasensor for the rapid detection of Escherichia coli in biological samples.*

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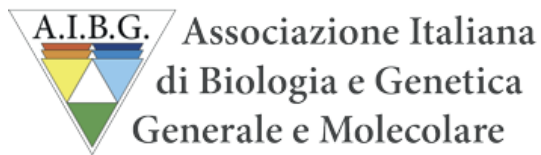
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