



# **II Workshop** **PLASMA-BASED GREEN TECHNOLOGIES** **FOR SUSTAINABLE** **AGRIFOOD PRODUCTION**

**7**  
**October**  
**2024**

*Sede del workshop*



Via G. Capruzzi 326  
70124 Bari  
'FEDERICO II' hall



**Virtual Room**

*Networking meeting*  
Discussion about possible  
collaboration and project  
proposal



<https://istp-cnr-it.zoom.us/j/3497322331>

**II Workshop**  
*Tecnologie verdi al plasma per  
produzioni agroalimentari  
sostenibili – PlaTEC*

**MODERATORI**  
Rita Milvia De Miccolis Angelini  
DiSSPA – UNIBA

Paolo Francesco Ambrico  
ISTP – CNR

**Segreteria Organizzativa**  
Sebastiano Laera DiSSPA – UNIBA  
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10:30

**Registration**

11:00

**Opening and Welcome**

**Morning session (Chairperson: Paolo Francesco Ambrico – ISTP – CNR)**

11:30

**Fabrizio Esposito** – Institute for Plasma Science and Technology (ISTP) – CNR, Bari, Italy  
*A sustainable nitrogen fixation: from theory to practice*

11:55

**Ivo Furno** – École Polytechnique Fédérale de Lausanne (EPFL), Switzerland  
*Cold atmospheric plasmas applied to biology – from physics to biology, via chemistry*

12:20

**Nikola Skoro** – Institute of Physics Belgrade, University of Belgrade, Serbia  
*Exploring applications of cold atmospheric plasmas in agriculture treatment of plant cells and water*

12:45

**Mario Janda** – Comenius University in Bratislava – Slovakia  
*Tuning the composition of plasma-activated water for agricultural applications*

13:15

**LIGHT LUNCH**

**Afternoon session (Chairperson: Rita Milvia De Miccolis Angelini – DiSSPA – UNIBA)**

14:45

**Savino Longo** – Department of Chemistry (UNIBA), Italy  
*Molecular processes in cold plasmas*

15:10

**Ricardo Molina** – Institute of Advanced Chemistry of Catalonia (IQAC – CSIC), Spain  
*Improvement of seed germination under adverse climatic conditions by non-thermal plasma treatments*

15:35

**Carla G. Zilli** – Center for Biochemical and Physiological Research of CONICET, Argentina  
*Plasma innovations for agro-industry: from lab and field trials to industrial integration*

16:00

**Palma Rosa Rotondo** – DiSSPA–UNIBA, Italy  
**Domenico Aceto** – ISTP – CNR–Bari, Italy  
*Horizon Europe Seeds PlaTEC – Project activities report*

16:30

**Round table and closing remarks**



**UNIVERSITÀ**  
DEGLI STUDI DI BARI  
ALDO MORO  
DiSSPA – DIPARTIMENTO DI  
SCIENZE DEL SUOLO, DELLA  
PIANTA E DEGLI ALIMENTI



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Plasma-based green technologies for sustainable agrifood  
production



**HORIZON**  
**EUROPE**  
**SEEDS**

