Electrospinning is internationally recognized as one of the key nanotechnologies of the future. It is currently the most economical, versatile and efficient technology for manufacturing structures successfully used in numerous applications (energy, sensors, medicine, textiles, filtration, packaging, agriculture) due to their large surface area, high and adjustable porosity (e.g. controlled release systems), modular robustness (combination of components) and ease of functionalization (encapsulation, blending, surface functionalization). The use of solvents and green methods as well as materials from waste from agro-industrial chains represents one of the last frontiers towards a sustainable approach.

One hundred years after the foundation of the CNR, the workshop aims to promote the versatility of this technology and the advances achieved in this regard by research in the CNR, encouraged by the birth in Italy of enterprises dedicated both to the development of customized equipment and functional materials for applications in both R&D and various fields (such as smart textiles, advanced filtration systems, sustainable packaging, cosmetics, slow-release biomedical gauze, etc.). The workshop is part of the NANOINNOVATION2023 Conference.

As in previous editions, access to and participation in the event does not require any fee, but the online registration on the website is mandatory, both for the participants who will actively present, and for the auditors.