

## Final Report of the Joint Bilateral Agreement CNR/Royal Society of London (UK)

### Biennial Programme 2024-2025

Considering the General Agreement signed on September 25, 2018, the joint call for the bilateral project program launched on April 12, 2023 and a recent exchange of emails between the Royal Society of London (UK) and CNR, both Parties have jointly decided to fund, within the framework of the future joint program, up to 5 projects granting 6.000 Euros per year for 2 years (a total of £12.000).

At the deadline fixed by the call, 35 proposals have been submitted to both Parties.

After the evaluation procedures performed independently by both Parties, the assessed projects obtaining the best average between CNR and RS evaluations, considering the different thematic areas, have been taken into account.

Despite the large number of good proposals received, the Parties agreed to finance the following proposals included in a final ranking list:

| Joint Research Project   | Italian Institution  | UK Institution  |
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| Resilience and vulnerability of water resources under drought conditions – new insights from integrated in-situ and remote sensing approaches revolution | Dr. CHRISTIAN MASSARI<br>Research institute for geo-hydrological protection (CNR-IRPI) | Dr. JOSIE GERIS<br>Northern Rivers Institute, School of Geosciences, University of Aberdeen |

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|---|---|--|
| Thin-film composite Membranes against Climate Change for gas stream treatment and CO2 separation (EMC2)       | Dr. ELISA ESPOSITO<br>Institute on Membrane Technology (CNR-ITM)                        | Dr. CHER HON LAU<br>Institute for Materials and Processes School of Engineering College of Science and Engineering University of Edinburgh |
| Modelling Exciton and Charge Transfer Dynamics in Multichromophoric Systems                                   | Dr. ROBERTO IMPROTA<br>Institute of biostructure and bioimaging (CNR-IBB)               | Dr. RACHEL CRESPO-OTERO<br>University College London   |
| SheepTreeSeq: Scalable analysis of sheep genome diversity using tree sequences                                | Dr. FILIPPO BISCARINI<br>Institute of agricultural biology and biotechnology (CNR-IBBA) | Dr. GREGOR GORJANC<br>University of Edinburgh  |
| Computational modelling and experimental validation of nutraceutical delivery from multi-functional particles | Dr. GIUSEPPE PONTRELLI<br>Institute for applied mathematics "Mauro Picone" (CNR-IAC)    | Dr. JOEL GIRON HERNANDEZ<br>Northumbria University, UK   |

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