



RESOLUTION OF THE COMFUTURO THIRD EDITION CALL 24 NOVEMBER 2022

Following the criteria reflected in [ComFuturo's Call Guidelines](#), the present document reflects the resolution of the call, which results from the candidates' punctuations in the external evaluation process of proposals (relative weight 80%) and the results of the personal interviews (relative weight 20%).

Taking into account the above-mentioned assessments, the following information shows the candidatures proposed for funding and the corresponding reserve list when such list exists.

To be qualified for a fellowship, the candidate must have obtained an overall final score of at least 3.5 over 5 (70%). Therefore, any candidate who has not obtained this minimum score has been excluded from the process.

There may be candidates who have exceeded this minimum but are nonetheless not reflected in the corresponding reserve list. This is because each reserve list includes a maximum number of positions equal to the number of selected candidates in that research line.

General thematic line, Group 1: Social Sciences and Humanities

Project	Researcher
Land property rights and class politics: evidence from Catalonia	Falcone, Stefano

Reserve list:

No list for this line in this group

General thematic line, Group 2: Mathematical, physical, chemical and engineering sciences

Project	Researcher
Energy-efficient operation for scaling up quantum computing	García-Abadillo Uriel, José Carlos
Template-directed stapling - towards functional helical peptides	Núñez Villanueva, Diego
4D bioprinting of hybrid electroactive materials for bone healing applications	Ferrández Montero, Ana

Reserve list, in order of priority:

Project	Researcher
Deep-learning Sonic-RAY tomography for architectural heritage digital reconstruction and structural diagnosis	Ortega Heras, Javier
Bio-LEDs through simulations	Biffi, Giulia
Chemical synthesis and multifunctionality of magnetocaloric Heusler nanomaterials	López Sánchez, Jesús



General thematic line, Group 3: Life Sciences

Project	Researcher
A cryocorrelative, high-resolution microscopy approach for the study of the innate immunity activation by immunogenic cell death	Muriel López, Olivia
Biodiversity to address animal origins: the origin of animal genomic regulation	Álvarez Presas, Marta
Cellular signal transduction with antenna-resolved trans bi-layer crossing hotspots	Van Zanten, Thomas Sebastiaan
Impact of climate change on monogenetic eruptions	De Bolós Granados, Xavier

Reserve list, in order of priority:

Project	Researcher
Exposome high-resolution mass spectrometry data analysis of endocrine disrupting chemicals in children	Garí de Barbarà, Mercedes
Targeting Galpha11 protein for treatment of uveal melanoma	Chaves Arquero, Belén
Integrating functioning connectivity to improve conservation management	Blanco Cartagena, Andreu
Energy performance metamodels of traditional and innovative materials to mitigate overheating in cities	Alchapar, Noelia

Specific Research lines

• Artificial photosynthesis oriented to chemicals

Project	Researcher
Tailored multifunctional nanophotocatalytic devices: a tactic-to-practice greenway for capture and conversion of CO ₂	Chacón Rosales, Gustavo Javier

Reserve list:

No list for this line

• Waste to aromatics

Project	Researcher
Revalorization of lignin and aromatics in yeast	del Cerro Sánchez, Carlos

Reserve list:

No list for this line



• **New high-performance stainless steels**

Project	Researcher
Lean austenitic stainless steel composite microstructure with enhanced mechanical properties	Morales Rivas, Lucía

Reserve list:

No list for this line

• **Personalized medicine in oncology**

Project	Researcher
Harnessing new programmed cell death processes for safer cancer therapy	Uribe Ríos, Mary Luz

Reserve list:

No list for this line

• **Quantum-safe digital society**

Project	Researcher
Variational quantum optical simulators	Muñoz de las Heras, Alberto

Reserve list:

Project	Researcher
Connecting quantum hopfield networks	Fiorelli, Eliana

• **Sustainable and digital management of the water cycle**

Project	Researcher
Bioplastics decomposition and effects on freshwater ecosystems under global change threats	Bonet Sánchez, Berta

Reserve list:

Project	Researcher
Toxicological risk assessment of rivers with metabolomics and metagenomics	Puig Castellví, Francesc

• **Sustainable energy through the generation/storage/distribution of green hydrogen**

Project	Researcher
Nanoparticulate high entropy materials as low-loading Ir/Ru oxygen evolution catalysts in acid media	Ruiz Esquiús, Jonathan

Reserve list:

No list for this line