

Final Report of the Joint Bilateral Agreement CNR/RFBR
Triennial Programme 2021-2023

Considering the General Agreement signed on 21 November, 2013 and the joint call for the bilateral project programme launched on 29th April, 2020

Both Parties agreed on funding up to 10 projects in the framework of the joint program. The criteria used by RFBR and CNR for the selection of the winning projects are the following:

- ✓
- ✓ we decided to finance **projects with the highest score** from different scientific area;
- ✓ we decided to finance projects which received a RFBR score of minimum **89** and a CNR score of minimum **17**.

After the evaluation step performed independently by both Parties, CNR and RFBR agreed on the following final ranking list of the financed proposals:

Joint Research project	Italian project leader	Russian project leader
Micelles encapsulation of SMYD3 irreversible inhibitors for effective anticancer drug delivery	Dott. ALBERTO DEL RIO Institute of Organic Synthesis and Photoreactivity (ISOF- Cnr)	Dott. ALEXANDER SHTIL Laboratory of Medicinal Chemistry, Chemistry Department of Lomonosov State University, Moscow
Mesoporous silica nanocarriers incorporating plasmonic Cu(2-x)S nanocrystals, fluorophores and 5-fluorouracil and functionalized with FZD10 antibody for the targeted photo-induced therapy of colorectal cancer	Dott.ssa NICOLETTA DE PALO Institute for Chemical-Physical Processes (IPCF-Cnr)	Dott.ssa ASIJA MUSTAFINA Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center of Russian Academy of Sciences
Hardware implementation of a polariton neural network for neuromorphic computing.	Dott. DANIELE SANVITTO CNR Nanotec, Institute of Nanotechnology (NANO- Cnr)	Dott.ssa NINA VORONOVA National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Lung-On-Chip with complex functionalities and acoustoelectronic actuators for studies of viral pathogenesis and repurposing of antiviral drugs	Dott. LUCA NUNZIO FRANCIOSO Istituto per la Microelettronica ed i Microsistemi (IMM- Cnr)	Dott. VLADIMIR ANISIMKIN Kotel'nikov Institute of Radio Engineering and Electronics of RAS

Joint Research project	Italian project leader	Russian project leader
Development of laser implantation technology of production of fullerene containers for prospective Be neutron capture therapy of cancer.	Dott. ALESSANDRO MATTONI Institute of Materials (IOM- Cnr)	Dott. EUGENE TKALYA National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Novel approaches to study Intellectual Disability related to Coffin-Siris syndrome (CSS) in the model system <i>Drosophila melanogaster</i> , also in relation to environmental pollutants	Dott.ssa FILOMENA ANNA DIGILIO Institute of research on terrestrial ecosystems (IRET- Cnr)	Dott. YULII SHLIDOVSKII Institute of Gene Biology , Russian Academy of Sciences , Moscow
Metal transporters as potential therapeutic targets in inherited disorders of copper metabolism	Dott.ssa ALESSIA INDRIERI Institute for Genetic and Biomedical Research (IRGB -Cnr)	Dott.ssa EKATERINA ILYECHOVA Federal State Budgetary Scientific Institution «Institute of Experimental Medicine», St. Petersburg
Molecular basis of rare neurological disorders caused by mutations in pyridoxal-5'-phosphate- and thiamine-diphosphate-binding proteins.	Dr. TRAMONTI ANGELA Institute of molecular biology and pathology (IBPM -Cnr)	Dr.ssa ANASTASIA GRAF Faculty of Biology Lomonosov Moscow State University

Joint Research project	Italian project leader	Russian project leader
Hardware realization of Reservoir computing and pattern recognition systems based on deterministic and stochastic organic memristive devices	Dott.ssa SILVIA BATTISTONI Institute of materials for electronics and magnetism (IMEM – Cnr)	Dott. VYACHESLAV DEMIN NRC Kurchatov Institute
Active resonant tunable dielectric microstructures for ultrafast photonics	Dott.ssa SILVIA SORIA HUGUET Institute of Applied Physics (IFAC Nello Carrara- Cnr)	Dott.ssa TATJANA MURZINA Department of Physics - Lomonosov Moscow State University

for

National Research Council of Italy

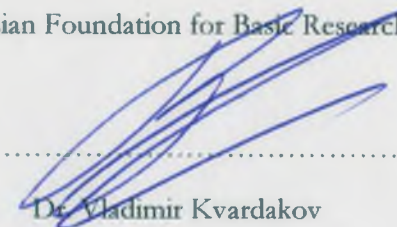


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