

IC PATHFINDER OPEN - 2022 CALL

Please note that this is a list of proposals that have been selected for funding. Having suggested the evaluation does not constitute a formal commitment for funding. The final decision on the proposals to be funded will only be taken upon finalisation of the grant preparation.

Acronym	Short description	Coordinating organisation	Country coordinator	Duration (months)
4D-NMR	Single-Molecule Nuclear Magnetic Resonance Microscopy for Complex Spin Systems	UNIVERSITÄT LINZ	AT	36
BABOTS	BABOTS: The design and control of small swimming biological animal robots	UNIVERSITE DE NAMUR ASBL	BE	48
FITNESS	Flexible Intelligence Near-field Sensing Skins	UNIVERSITE CATHOLIQUE DE LOUVAIN	BE	48
BRAINFORM	Wireless deep BRAIN STimulation (V)Cough engineered Multifunctional nanomaterials	FRIEDRICH-ALEXANDER-UNIVERSITÄT ERLANGEN-NÜRNBERG	DE	48
ArtPac	Artificial Placenta (ArtPac) - Miniaturized Integrated Lung and Kidney Support for Critically Ill Newborns	KLINIKUM NÜRNBERG	DE	48
reaCox	Fibre-based plasmonic micro reactor for flow chemistry	GOTTFRIED WILHELM LEIBNIZ UNIVERSITÄT HANNOVER	DE	48
AGEUS	AGEUS - A Novel EEG Ultrasound Device for Functional Brain Imaging and Neurostimulation	FRANKHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	DE	48
QUANTIC	Quantum Generative Adversarial Networks with photonic Integrated Circuits (QUANTIC)	KAHRUS UNIVERSITÄT	DK	48
SoftSach	Minimally-invasive Soft-Robot Assisted Deep-Brain Localized Therapeutics Delivery for Neurological Disorders	IRIDYMA TECHNOLOGIES KAI EREVENAS	EL	36
NEUROPIC	Neuro-electro-optomechanical programmable integrated circuits	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	48
OSIRIUS	On-chip tomographic microscopy: a paradigm Shift for Revolutionizing lab-on-a-chip bioimaging technology	DAS PHOTONICS SL	ES	36
RETINAGER	REAL-TIME MOLECULAR IMAGING WITH UNPREPARED RESOLUTION	UNIVERSIDAD CARLOS III DE MADRID	ES	42
APTAGEAD	A novel, first-in-its-kind aptamer-based LYTACS to address the unmet clinical need of diabetic wounds	Unicobtech SL	ES	60
QUADRATURE	SCALABLE MULTI-CHIP QUANTUM ARCHITECTURES ENABLED BY CRYOGENIC WIRELESS / QUANTUM-CONCURRENT NETWORK-IN-PACKAGE	UNIVERSITAT POLITÈCNICA DE VALÈNCIA	ES	48
SKINREV	SKIN MICROBIAL DEVICES	UNIVERSIDAD POMPEU FABRA	ES	48
FUNAMBULIST	Functional Nucleic Acids as Versatile Smart Building Blocks in Non-Conventional Solvents	UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA	ES	36
DARWIN	Pollinator assisted plant natural selection and breeding under climate change pressure	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	42
THOR	building vascular networks and Blood-Brain Barriers through a Biomimetic manufacturing Technology for the fabrication of human tissues and Organs	UNIVERSIDAD POLITÈCNICA DE MADRID	ES	48
MORVIC	Mobile Bio-Lab to support first response in Abovirus outbreaks	IRIDION SL	ES	48
PiezoSpin	Piezo-driven theranostic: A revolutionary multifaceted actuator to repair the injured spinal cord	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	48
BRaw	Bioalytic membranes for micro/nano plastic degradation within waste water effluents	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES	42
SCOLD	Strong-coupling-enhanced nanocrystal array organic light emitting diode	HALTO KORKEAKOULUSIATTO SR	FI	36
HOLDEN	Ethical Design of Holography with Dense wireless Networks	HALTO KORKEAKOULUSIATTO SR	FI	36
VORTEX-4-FUSION	Laser vortex beams with extreme orbital angular momentum for anaerobic fusion (V4F)	TAMPEREN KORKEAKOULUSIATTO SR	FI	48
Live-Mirror	ULTRA-LIGHT, SELF-CORRECTING, 'LIVE' MIRRORS: Lowering the areal density of mirrors and maximizing performance with non-abrasive, additive, 3D printed novel technology.	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR	48
IA2D	Intelligent design of adenovirus vectors (IA2D)	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	FR	48
V-IF-Spin3D	Low-field 3D magnetic resonance spinometry for advanced regional exploration of respiratory diseases	UNIVERSITE PARIS-SACLAY	FR	48
AI-HAND	Advanced intelligent stimulation device: HAND movement restoration	INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE	FR	42
METAFLEX	Metastatic: Synchronic Sutures	UNIVERSITE PARIS-SACLAY	FR	48
BAYFLEX	BAYesian Inference with FLEXible electronics for biomedical Applications	UNIVERSITE PARIS-SACLAY	FR	42
VIBRIZING	Vibrations of rare particles: scintig light	UNIVERSITE LYON 1 CLAUDE BERNARD	FR	48
BioLaser	Proof of principle by larvae biofactory for biopolymer plastic production	THE PROVOST FELLOWS FOUNDATION SCHOLARS & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY & UNDIVIDED TRINITY OF QUEEN ELIZABETH NEAR DUBLIN	IE	36
RT-SuperES	Real Time high contrast Super Resolution Imaging of ES Cell States	THE HEBREW UNIVERSITY OF JERUSALEM	IL	48
SustainW	Sustainable Bioprocessed Wax Coating for Multi-Functional Crop Protection	TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY	IL	48
Pronexus	Pronex Brain Oxygenation and Metabolic EU Sensing: Feed the Brain	UNIVERSITA DEGLI STUDI DI PADOVA	IT	48
PERSEUS	2D Material Based Multiple Dicotherapy Against Metastatic Disease Using a Radically New Computed Tomography Approach	CONSIGLIO NAZIONALE DELLE RICERCHE	IT	48
PROP	PROP: Propagation in Atmosphere	INSTITUTE DI MESSICO	IT	36
SpinMech	A synaptic mechanobiomechanical technology to repair brain connectivity	UNIVERSITA DEGLI STUDI DI TRESTE	IT	60
3D-BRICCS	3D Biobridged high-performance diva-carbon nanotube digital electronics	FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	IT	36
NAP	tailN-on-a-chip brain for monitoring individual sleep habits	UNIVERSITA DI PISA	IT	42
PLANKT-ON	Plankton-like Protocells for Artificial Photosynthesis Targeting Carbon neutral Energy Vectors	CONSORZIO INTERUNIVERSITARIO NAZIONALE PER LA SCIENZA E TECNOLOGIA DEI MATERIALI	IT	36
ZERAF	ZERO-carbon building enabling Adaptive opaque Facade technology	ACCADEMIA EUROPEA DI BOLZANO	IT	48
IVM-4PAP	Development of an In-Vivo Brillouin Microscope (with application to Protein Aggregation-based Pathologies)	FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	IT	42
REPRESSIT	REPRESSIT: A novel class of clinical immune checkpoint inhibitors	STICHTING NEDERLANDSE WETENSCHAPPELIJK ONDERZOEK INSTITUTEN	NL	60
FastMOT	Fast gated superconducting nanowire camera for multi-functional optical tomograph	SINGLE QUANTUM BV	NL	48
KIDNEY	breakthrough technologies for an implantable artificial kidney	UNIVERSITAIR MEDISCH CENTRUM UTRECHT	NL	48
3D-Brain	Revolutionary high-resolution human 3D brain organoid platform integrating AI-based analytics	ERASMUS UNIVERSITAIR MEDISCH CENTRUM ROTTERDAM	NL	60
PULSE	3D Printing of Ultra-fidelity tissues using Space for anti-aging solutions on Earth	UNIVERSITEIT MAASTRICHT	NL	60
NANO-ENGINE	A revolutionary cell programming platform based on the targeted nano-delivery of a transposon gene editing system	Nanocoil Therapeutics bv	NL	36
BELIEVE	First Closed-loop non-Invasive Seizure Prevention System	Alpha Brain Technologies	NL	36
RESPIRE	RECONFIGURABLE SUPERCONDUCTING AND PHOTONIC TECHNOLOGIES OF THE FUTURE	SINGLE QUANTUM BV	NL	48
3DSeinet	3D spheroids derived from single cells for discovering stochastic patterns behind metastasis	LABORATORIO IBERICO INTERNACIONAL DE NANOTECNOLOGIA LIN	PT	48
CAR-T-REX	CAR-T cells Reixed to prevent Exhaustion in the tumour microenvironment	STEMMATTERS, BIOTECNOLOGIA E MEDICINA REGENERATIVA SA	PT	48
BIOPHE	Biofunctional interdigital Electrodes	CHAMBERS TRENDA HOSPIZOLA AB	SE	36
bioSWITCH	Bioorthogonal implantable ionic switch to Temporally Control the Local Release of Chemotherapeutics	UNIFORMIS UNIVERSITÄT	SE	36
4to2	Breaking the Resolution Limit in Two-Photon Microscopy Using Negative Photochromism	CHAMBERS TRENDA HOSPIZOLA AB	SE	36
Precision	Modular time-of-flight PET imager	INSTITUT JOZSEF STEJAN	SI	60