

EIC Pathfinder Challenges - 2022 Call

Acronym	Title	Coordinating organisation	Country coordinator	Duration (months)
VanillaFlow	Artificial Intelligence Guided Development of Vanillin-based Flow Batteries	Ecolyte GmbH	AT	36
KERMIT	Kidney Disease Sweat sensor patch for Early diagnosis and Remote Monitoring	SILICON AUSTRIA LABS GMBH	AT	36
Mi-DNA DISC	Microbe-synthesised DNA Nanostructures for Display-controlled Storage Cartridges	AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH	AT	48
Mi-Hy	Microbial Hydroponics: Circular Sustainable Electrobiosynthesis	KATHOLIEKE UNIVERSITEIT LEUVEN	BE	48
HEISINGBERG	Spatial Quantum Optical Annealer for Spin Hamiltonians	UBITECH LIMITED	CY	48
ECOMO	Electrocatalytic cascade for bulk reduction of CO ₂ to CO coupled to fermentative production of high value diamine monomers	TECHNISCHE UNIVERSITAET MUENCHEN	DE	36
SULPHURREAL	An innovative thermochemical cycle based on solid sulphur for integrated long-term storage of solar thermal energy	DEUTSCHES ZENTRUM FUR LUFT - UND RAUMFAHRT EV	DE	36
CARDIOREPAIR	Comprehensive Analysis of RBM20-induced Dilated Cardiomyopathies using Omics Approaches and Repair Interventions	EUROPEAN MOLECULAR BIOLOGY LABORATORY	DE	60
VOCORDER	Towards the ultimate breath analysis -based continuous healthcare	ARGOS MESSTECHNIK GMBH	DE	42
MuSiC4Diabetes	Unobtrusive Continuous Multi-Metabolite Monitoring for a Physiological Care of Insulin-treated Diabetes	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	DE	48
ALECTRA	A new Electrochemical concept for Mid- to Long-term storage of Electrical energy in green liquid Ammonia	AARHUS UNIVERSITET	DK	48
SUPERVAL	Sustainable Photo-Electrochemical Valorization of flue gases	FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA	ES	36
CONFETI	Green valorization of CO ₂ and Nitrogen compounds for making fertilizers	UNIVERSIDAD AUTONOMA DE BARCELONA	ES	36
ICONIC	Integrated Conversion of Nitrate and Carbonate streams	FUNDACIO INSTITUT DE CIENCIES FOTONIQUES	ES	36
PUSH-CCC	PUSHING THE LIMITS OF LARGE-SCALE ENERGY STORAGE: OPTIMIZED COMBINED CYCLE CAES	RIEGOSUR, S.A.	ES	48
HIPERZAB	High performing electrically rechargeable zinc-air batteries for sustainable mid-term energy storage	CENTRO DE INVESTIGACION COOPERATIVA DE ENERGIAS ALTERNATIVAS FUNDACION, CIC ENERGIGUNE FUNDAZIOA	ES	48
WOUNDSENS	A Paradigm Shift in Health Monitoring with Electrospun Enzymatic Neomaterials	EVOENZYME SL	ES	48
HYDROCOW	Hydrogen oxidizing bacteria engineered to valorize CO ₂ for whey protein production	SOLAR FOODS OY	FI	48
MIRACLE	Multiomics based Risk stratification of Atherosclerotic Cardiovascular disease	ITA-SUOMEN YLIOPISTO	FI	48
STIMULUS	Speckle Technology and Digital Biomarkers of Microvascular Function for Monitoring Cardiovascular Diseases	TURUN YLIOPISTO	FI	48
Nav1.5-CARED	Nav1.5 regulation fine-tuning as a therapy for cardiac Conduction and Arrhythmic diseases at Risk of sudden Death	INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE	FR	60
HYPERION	Proof of concept of affordable and scalable DNA data storage by developing a writing technology based on enzymatic DNA synthesis with a very dense semiconductor integrated circuit (CMOS chip)	DNA SCRIPT SAS	FR	48
VeriQuB	Efficient Verification of Quantum computing architectures with Bosons	INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET AUTOMATIQUE	FR	48
DISCO	DNA-based Infrastructure for Storage and Computation	NATIONAL UNIVERSITY OF IRELAND MAYNOOTH	IE	60
DIDAX	Computational, Chemical and Biotechnology Solutions to Improved DNA Data Storage: from In-Product Information and Cryptography to Long-Term Archiving	TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY	IL	48
Muspell	Medium to long term thermal energy storage system with embedded heat pumping capability	ACCADEMIA EUROPEA DI BOLZANO	IT	48
M-TES	Metallic phase change material-composites for Thermal Energy management based on Self-encapsulated microstructure	POLITECNICO DI MILANO	IT	36
IMPACT	Cardiogenomics meets Artificial Intelligence: a step forward in arrhythmogenic cardiomyopathy diagnosis and treatment	UNIVERSITA DEGLI STUDI DI PADOVA	IT	36
IV-Lab	In-vessel implantable smart sensing device for personalised medicine	FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA	IT	48
Q-ONE	Quantum Optical Networks based on Exciton-polaritons	CONSIGLIO NAZIONALE DELLE RICERCHE	IT	48
ARTEMIS	molecular Materials for on-chip integrated quantum light source	CONSIGLIO NAZIONALE DELLE RICERCHE	IT	48
IQARO	Spin-orbitronic Quantum bits in Reconfigurable 2D-Oxides	CONSIGLIO NAZIONALE DELLE RICERCHE	IT	48
FERROMON	Ferrotransmons and Ferrogatemons for Scalable Superconducting Quantum Computers	UNIVERSITA DEGLI STUDI DI NAPOLI FEDERICO II	IT	24
TargetMI	A Multi-Omics Approach for Novel Drug Targets, Biomarkers and Risk Algorithms for Myocardial Infarction	UNIVERSITA TA MALTA	MT	60
B-specific	B-specific: B-cell related gene and protein markers with prognostic and therapeutic value for CVD	UNIVERSITEIT LEIDEN	NL	48
DCM-NEXT	Enabling advances in diagnosis, patient stratification and treatment for dilated cardiomyopathy patients and families.	ACADEMISCH MEDISCH CENTRUM BIJ DE UNIVERSITEIT VAN AMSTERDAM	NL	48
Breath-Sense	Miniaturized plasma emission spectroscopy-based breath analysis for unobtrusive at-home monitoring and prediction of COPD exacerbations	Respiro B.V.	NL	42
QuKIT	Quantum bits with Kitaev Transmons	TECHNISCHE UNIVERSITEIT DELFT	NL	48
ReZilent	Redox-mediated hybrid zinc-air flow batteries for more resilient integrated power systems	SINTEF ENERGI AS	NO	48
Blood2Power	Blood as energy source to power smart cardiac devices	IS3 - INSTITUTO DE INVESTIGACAO E INOVACAO EM SAUDE DA UNIVERSIDADE DO PORTO	PT	36
MINICOR	MILD Combustion with Nitrogen and Carbon Dioxide Reforming	LUNDS UNIVERSITET	SE	60
DURA-store	A dynamic, ultra-stable, random-access RNA retrieval database	KAROLINSKA INSTITUTET	SE	60
PEARL-DNA	Interoperable end-to-end platform of scalable and sustainable high-throughput technologies for DNA-based digital data storage	BIOSISTEMIKA, RAZISKAVE IN RAZVOJ DOO	SI	36
NEO	Next Generation Molecular Data Storage	IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE	UK	36