

## ERC Starting Grants 2022

### List of Principal Investigators invited for funding from the reserve list

#### All domains

*The final list of successful candidates is provisional. The Trade and Cooperation Agreement between the European Union and the United Kingdom allows for associating the UK to the current EU research and innovation funding programme, Horizon Europe, subject to the adoption of a Protocol. As this Protocol has not been adopted so far, the UK is still considered "non-associated" to Horizon Europe. Therefore, the successful proposals of applicants based in a country in the process of associating to Horizon Europe will be eligible for funding only if the relevant Horizon Europe association agreement applies by the time of the signature of the grant agreement. However, successful applicants from UK host institutions can still be funded, provided that they move to a host institution in an eligible country.*

| Last name   | First name | Host Institution local name          | Host Institution name                      | Host Country | Acronym        | Title   | Panel |
|-------------|------------|--------------------------------------|--|--------------|----------------|---|-------|
| Christakis  | Maria      | Technische Universität Wien          | Vienna University of Technology            | AT           | MirandaTesting | Testing Program Analyzers Ad Absurdum   | PE6   |
| Felten      | Sebastian  | Universität Wien                     | University of Vienna                       | AT           | SCARCE         | Sustained Concerns: Administration of Mineral Resources in Central Europe, 1550-1850  | SH6   |
| Dodeigne    | Jeremy     | Université de Namur                  | University of Namur                        | BE           | POLSTYLE       | New trends or old habits? Stability and changes of political styles since 1960  | SH2   |
| Jacquet     | Vincent    | Université de Namur                  | University of Namur                        | BE           | CITIZEN_IMPACT | Citizen Assemblies in Europe: window dressing or transformative instruments?  | SH2   |
| Masschelein | Joleen     | Vlaams Instituut voor Biotechnologie | Flanders Institute for Biotechnology (VIB) | BE           | MiStiC         | Microbial Synthetic in vivo Cell Therapy Systems  | LS9   |
| Merrill     | Elizabeth  | Universiteit Gent                    | Ghent University                           | BE           | CCPEMA         | Copying As Common Practice in Early Modern Architecture   | SH5   |
| Pivodic     | Lara       | Vrije Universiteit Brussel           | Free University of Brussels (VUB)          | BE           | TRAJECT        | Uncovering commonalities and differences: Towards a novel framework for identifying end-of-life trajectories of older people with serious chronic illness | SH7   |

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|---------------|-------------|--|-------------------------------------|--------------|-------------|---|-------|
| Radermecker   | Anne-Sophie | Université Libre de Bruxelles                          | Free University of Brussels (ULB)   | BE           | MOOVA       | Making Old Objects Valuable Again. The Cultural, Economic Challenges and Sustainability Opportunities of Antiques in the 21st Century | SH5   |
| Spyropoulos   | Georgios    | Universiteit Gent                                      | Ghent University                    | BE           | aTONE       | Soft optoelectronics and ion-based circuits for diagnostics and closed-loop neuromodulation of the auditory pathway                   | PE7   |
| Mpekris       | Fotios      | University of Cyprus                                   | University of Cyprus                | CY           | MMSCancer   | Mechano-modulation of tumor microenvironment with mechanotherapeutics and sonopermeation to optimize nano-immunotherapy               | PE8   |
| Andergassen   | Daniel      | Technische Universität München                         | Technical University of Munich      | DE           | EscapeX     | Uncovering the missing X factors to understand sex bias in cardiovascular disease   | LS2   |
| Arroyo Rabasa | Adolfo      | Rheinische Friedrich-Wilhelms-Universität Bonn         | University of Bonn                  | DE           | ConFine     | Concentrations and Fine Properties of PDE-constrained measures  | PE1   |
| Basu          | Raunak      | Universitätsmedizin Göttingen Georg-August-Universität | University Medical Center Göttingen | DE           | ChoiceSpace | Task-relevant cognitive maps and their role in spatial decision-making  | LS5   |
| Dai           | Angela      | Technische Universität München                         | Technical University of Munich      | DE           | SpatialSem  | Spatial 3D Semantic Understanding for Perception in the Wild  | PE6   |

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|-----------|------------|---|----------------------------------|--------------|-------------|---|-------|
| Defenu    | Nicolò     | Ruprecht-Karls-Universität Heidelberg             | University of Heidelberg         | DE           | QLR-Net     | Quantum Long-Range Networks   | PE2   |
| Franken   | Tanja      | Friedrich-Alexander-Universität Erlangen-Nürnberg | University of Erlangen-Nuremberg | DE           | DynaMMO     | Tackling limitations of future relevant thermo-chemical reactions by exploiting the dynamic surface behaviour of complex mixed metal oxides | PE8   |
| Gaertner  | Florian    | Ludwig-Maximilians-Universität München            | University of Munich (LMU)       | DE           | MEKanics    | Cell mechanics of megakaryocytes in 3D tissues - deciphering mechanobiology of platelet formation   | LS3   |
| Gumpert   | Anna       | Eberhard Karls Universität Tübingen               | University of Tübingen           | DE           | ORGANDICT   | Firm organization and the adoption of information and communication technologies  | SH1   |
| Holder    | Tobias     | Universität Zu Köln                               | University of Cologne            | DE           | QuantumCUSP | New Horizons in Quantum Transport: From band structure geometry to emergent curved spacetime  | PE3   |
| Kastl     | Christoph  | Technische Universität München                    | Technical University of Munich   | DE           | 2DTopS      | TOP-down Superlattice engineering of 2D solid-state quantum matter  | PE3   |
| Li        | Yongguo    | Universitätsklinikum Bonn                         | University Medical Centre Bonn   | DE           | BATOFF      | Turning off the furnace: the intracellular brake systems for brown fat thermogenesis  | LS4   |

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| Lockhart    | Guglielmo Paul | Rheinische Friedrich-Wilhelms-Universität Bonn                            | University of Bonn  | DE           | EXTENDED         | Extended degrees of freedom in QFT  | PE2   |
| Milovanovic | Dragomir       | Deutsches Zentrum für Neurodegenerative Erkrankungen e.V                  | German Centre for Neurodegenerative Diseases - Helmholtz Centre | DE           | MEMLESSINTERFACE | Interface between Membraneless Organelles and Membranes                               | LS1   |
| Pariso      | Francesco      | Helmholtz-Zentrum Potsdam Deutsches GeoForschungsZentrum                  | Helmholtz Centre Potsdam German Research Centre for Geosciences | DE           | PhI3             | Physics-informed machine learning to forecast injection-induced seismicity            | PE8   |
| Pithan      | Felix          | Alfred-Wegener-Institut Helmholtz- Zentrum für Polar- und Meeresforschung | Alfred Wegener Institute for Polar and Marine Research          | DE           | A3M-transform    | Understanding Arctic amplification of climate change through air-mass transformations | PE10  |
| Pradhan     | Prajal         | Potsdam-Institut für Klimafolgenforschung                                 | Potsdam Institute for Climate Impact Research                   | DE           | BeyondSDG        | Transformation towards long-term sustainability beyond Sustainable Development Goals  | SH7   |
| Tasdogan    | Alpaslan       | Universitätsklinikum Essen  | Essen University Hospital                                       | DE           | METATARGET       | Targeting the Metabolic Dependencies of Metastatic Tumor Cells                        | LS4   |
| Tittl       | Andreas        | Ludwig-Maximilians-Universität München                                    | University of Munich (LMU)                                      | DE           | METANEXT         | Atomically layered materials for next-generation metasurfaces                         | PE3   |
| Larsen      | Martin         | Aarhus Universitet  | Aarhus University   | DK           | POLICITY         | The Politics of Citizen Opposition to Urban Development                               | SH2   |

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| Racimo           | Fernando   | Københavns Universitet                                   | University of Copenhagen                     | DK           | STAMP             | Spatiotemporal Analytical Modelling for Paleobiology  | LS8   |
| Somyajit         | Kumar      | Syddansk Universitet                                     | University of Southern Denmark               | DK           | META-SURVEILLANCE | The molecular nexus coupling Cell Metabolism to Cell cycle and Genome Surveillance                    | LS1   |
| Zhou             | You        | Københavns Universitet                                   | University of Copenhagen                     | DK           | InitialConditions | Initial Conditions for Quark and Gluon Matter Formation at the LHC                                    | PE2   |
| Zylicz           | Jan        | Københavns Universitet                                   | University of Copenhagen                     | DK           | ChroMeta          | Unravelling specificity of epi-metabolic regulation in mouse development                              | LS3   |
| Liodakis         | Ioannis    | Foundation for Research and Technology Hellas            | Greek Foundation for Research and Technology | EL           | BOOTES            | Black hole Optical-polarization TimE-domain Survey  | PE9   |
| Affo             | Silvia     | Institut d'Investigacions Biomèdiques August Pi i Sunyer | IDAPS  | ES           | DynamHet          | Deciphering the dynamic-plasticity and heterogeneity of cancer-associated fibroblasts                 | LS4   |
| Garcia De Marina | Hector     | Universidad de Granada                                   | University of Granada                        | ES           | iSwarm            | Controlling imperfect robot swarms  | PE7   |
| Ibanez Pereda    | Jaime      | Universidad de Zaragoza                                  | University of Zaragoza                       | ES           | ECHOES            | Extracting the Human Motor Null Space from Muscles - A new framework to measure human neural activity | PE7   |

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|-------------------|------------|---|--|--------------|--------------|---|-------|
| Muñoz Rojo        | Miguel     | Agencia Estatal Consejo Superior de Investigaciones Científicas | Spanish National Research Council (CSIC)       | ES           | THERMO2DEAL  | THERmal MOdulators based on novel 2D mxEne materials for nearly isotherMAL battery operation  | PE8   |
| Perez             | Daniel     | Universitat Politècnica de València                             | Polytechnic University of Valencia             | ES           | LS-Photonics | Large-scale Multicore Smart Photonics: Using advanced design and configuration protocols to develop the largest-scale programmable photonic processor | PE7   |
| Rodriguez Barreto | Deiene     | Universidad de La Laguna  | University of La Laguna                        | ES           | EPIAQUA      | Unravelling the epigenetic mechanisms underlying nutritional programming for sustainable aquaculture  | LS9   |
| Lian              | Junhe      | Aalto-yliopisto   | Aalto University                               | FI           | HIGMAM       | Hierarchical gradient metals by additive manufacturing  | PE8   |
| Ehrlacher         | Virginie   | Ecole Nationale des Ponts et Chaussées                          | Ecole Nationale des Ponts et Chaussées         | FR           | HighLEAP     | High-dimensional mathematical methods for Large Agent and Particle systems  | PE1   |
| Ibrahim           | Daniel     | Centre National de la Recherche Scientifique (CNRS)             | National Center for Scientific Research (CNRS) | FR           | SYNREG       | Designing synthetic regulatory domains to understand gene expression  | LS2   |
| Ligneul           | Romain     | Centre National de la Recherche Scientifique (CNRS)             | National Center for Scientific Research (CNRS) | FR           | CRACK-5HT    | Cross-species Regulation of Action by Controllability: a Keystone of 5-HT signalling?   | LS5   |

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| Mondet        | Fanny      | Institut national de recherche pour l'agriculture, l'alimentation et l'environnement | INRAE  | FR           | BEE HEALTHY      | If you are not healthy you are out: how honey bees develop resilience towards invasive species events with an immune system at the colony level | LS8   |
| Nord          | Ashley     | Centre National de la Recherche Scientifique (CNRS)                                  | National Center for Scientific Research (CNRS) | FR           | PHYBION          | Physics of Bacterial Biofilm Nucleation   | PE3   |
| Pisani        | Alice      | Centre National de la Recherche Scientifique (CNRS)                                  | National Center for Scientific Research (CNRS) | FR           | COSMOBEST        | COSMOlogy BEyond Standard Techniques: a program to exploit cosmic voids for precision cosmology   | PE9   |
| Tonnabel      | Jeanne     | Centre National de la Recherche Scientifique (CNRS)                                  | National Center for Scientific Research (CNRS) | FR           | SEXIPLANTS       | The scope for sexual selection in plants  | LS8   |
| Berecz        | Ágoston    | Közép-európai Egyetem  | Central European University                    | HU           | BENASTA          | Becoming National against the State: Popular discontent and adherence to minority nationalisms in late nineteenth-century Eastern Europe        | SH6   |
| Murphy        | Susan      | Trinity College Dublin   | Trinity College Dublin                         | IE           | GEOFORMATIONS    | Geographies of dynamic governance assemblages in development cooperation civil society spaces   | SH7   |
| Cohen-Hanegbi | Naama      | Tel Aviv University  | Tel Aviv University                            | IL           | MedPlaceboEffect | Medieval Placebo Effect: Hope and Belief in Healthcare in Christian Southern Europe 1100-1500   | SH6   |



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| Schwartz-Ziv | Miriam     | The Hebrew University of Jerusalem                                | The Hebrew University of Jerusalem               | IL           | TechFin       | Is the Presence of Technology Improving Corporations and Increasing the Prosperity of Investors and Individuals?   | SH1   |
| Shlezinger   | Neta       | The Hebrew University of Jerusalem                                | The Hebrew University of Jerusalem               | IL           | MycoviralPath | The role of fungal viruses in shaping fungal pathogenesis and mammalian host responses                             | LS6   |
| Bartoletti   | Stefania   | Consiglio Nazionale delle Ricerche                                | Italian National Research council                | IT           | FIND-OUT      | Federated and distributed inference leveraging sensing and communication in the computing continuum                | PE7   |
| Bertero      | Alessandro | Università degli Studi di Torino                                  | University of Turin                              | IT           | TRANS-3       | Beyond the chromosome: unravelling the interplay between inter-chromosomal genome architecture and mRNA biogenesis | LS1   |
| Dordevic     | Luka       | Università degli Studi di Padova                                  | University of Padova                             | IT           | PhotoDark     | Photocatalytic Reactions Under Light and Dark with Transient Supramolecular Assemblies                             | PE5   |
| Hoeksema     | Marten     | Academisch Medisch Centrum Bij de Universiteit Van Amsterdam      | Academic Medical Centre, University of Amsterdam | NL           | CYTOMAC       | Cytokine signaling in macrophages: beyond JAK-STAT   | LS6   |
| Jochems      | Simon      | Academisch Ziekenhuis Leiden - Leids Universitair Medisch Centrum | Leiden University Medical Center (LUMC)          | NL           | DailySAM      | Understanding respiratory tract infections through minimally-invasive, daily nasal sampling in children            | LS7   |
| Kroon        | Jeffrey    | Academisch Medisch Centrum Bij de Universiteit Van Amsterdam      | Academic Medical Centre, University of Amsterdam | NL           | ENDOMET-STEER | Endothelial metabolism dictates the bone marrow niche and the plaque microenvironment                              | LS4   |

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| R Holtman   | Inge       | Academisch Ziekenhuis Groningen    | Academic Medical Centre, Groningen   | NL           | TRANS-PSYCH    | Transcriptional Regulation Assessed in Neuronal Subtypes in three major interrelated Psychiatric disorders            | LS5   |
| Snijder     | Joost      | Universiteit Utrecht               | Utrecht University                   | NL           | FLAVIR         | Universal building blocks for antigen presentation to uncover the flavivirus-directed antibody response               | LS6   |
| Landy       | Jack       | UiT Norges arktiske universitet    | UiT: The Arctic University of Norway | NO           | SI3D           | Arctic Summer Sea Ice in 3D   | PE10  |
| Brylak      | Agnieszka  | Uniwersytet Warszawski             | University of Warsaw                 | PL           | TEOTL          | The concept of teotl: a complex approach to the principal religious category of pre-Hispanic Central Mexico           | SH6   |
| Skowron     | Piotr      | Uniwersytet Warszawski             | University of Warsaw                 | PL           | PRO-DEMOCRATIC | Proportional Algorithms for Democratic Decisions  | PE6   |
| Baryshnikov | Glib       | Linköping Universitet              | Linköping University                 | SE           | LUMOR          | Theory and principles of luminescent organic radical materials for OLED and sensor applications                       | PE4   |
| Bjorkman    | Anne       | Göteborgs universitet              | University of Gothenburg             | SE           | ArcticEDGE     | Consequences of warming-driven vegetation change for Arctic carbon cycling and feedbacks to the global climate system | LS8   |
| Majek       | Michal     | Univerzita Komenského v Bratislave | Comenius University Bratislava       | SK           | CAPELE         | Chemical Catalysis with Piezoelectric Materials   | PE5   |

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| Bolla     | Jani Reddy | University of Oxford                                 | University of Oxford                                 | UK           | ChIAM     | Molecular architecture and mechanism of the chloroplast's beta-barrel assembly machinery | LS1   |
| Bruned    | Yvain      | University of Edinburgh                              | University of Edinburgh                              | UK           | LoRDeT    | Low Regularity Dynamics via Decorated Trees  | PE1   |
| Byrne     | Michael    | University of St Andrews                             | University of St Andrews                             | UK           | GLOBAL-EX | GLOBAL-EX: A GLOBAL theory for EXtreme land temperatures in a changing climate           | PE10  |
| Cepi      | Paulo      | Imperial College of Science, Technology and Medicine | Imperial College of Science, Technology and Medicine | UK           | REFRAME   | A new climate feedback framework   | PE10  |
| Cochrane  | Stephen    | Queen's University Belfast                           | Queen's University Belfast                           | UK           | NEW HOPE  | NEW Approaches to Overcome the Problem of Antimicrobial Resistance                       | PE5   |
| Collins   | Sean       | University of Leeds                                  | University of Leeds                                  | UK           | AMICI     | Amorphous Microstructure Imaging at Composite Interfaces in Metal–Organic Frameworks     | PE4   |
| Deniz     | Ozgen      | Imperial College of Science, Technology and Medicine | Imperial College of Science, Technology and Medicine | UK           | FITEAML   | Functional Interrogation of Transposable Elements in Acute Myeloid Leukaemia             | LS2   |
| Devlin    | Jack       | Imperial College of Science, Technology and Medicine | Imperial College of Science, Technology and Medicine | UK           | APTE      | Astroparticle Physics with a Trapped Electron  | PE2   |

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| Felice    | Ryan       | University College London   | University College London | UK           | BRAIN-DRAIN       | The Consequences of Encephalization: Testing Trade-offs in Cranial Evolution                           | LS8   |
| Foerster  | Jakob      | University of Oxford        | University of Oxford      | UK           | SHAIC1            | Towards Scalable Human-AI Coordination from First Principles   | PE6   |
| French    | Alice      | University of Bristol       | University of Bristol     | UK           | SePrSI            | Sensory processing during sleep  | LS5   |
| Gola      | Pawel      | University of Edinburgh     | University of Edinburgh   | UK           | MULTDIMENSORTING  | Multidimensional Sorting with Imperfectly Transferable Utility   | SH1   |
| Mikolai   | Julia      | University of St Andrews    | University of St Andrews  | UK           | ChildLives        | Family complexity and inequalities in children's lives in Europe: A child-centred life course approach | SH7   |
| Ruth      | Katherine  | University of Exeter        | University of Exeter      | UK           | HEALTH-PM         | Using genetics to understand the role of hormones in postmenopausal health                             | LS2   |
| Uhlemann  | Cora       | Newcastle University        | Newcastle University      | UK           | LSS_BeyondAverage | Probing cosmic large-scale structure beyond the average  | PE9   |
| Vezzoli   | Andrea     | University of Liverpool     | University of Liverpool   | UK           | SPUD              | Single-Photon Unimolecular Devices   | PE4   |

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| Zhou      | Rong       | University of Cambridge     | University of Cambridge | UK           | MPGSVA  | Mod p geometry of Shimura varieties and applications | PE1   |