

ERC Advanced Grants 2022

List of Principal Investigators selected for funding

The statistics and final list of successful candidates are 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
TANAKA	Elly	Forschungsinstitut für Molekulare Pathologie Ges.m.b.H	The Research Institute of Molecular Pathology	AT	RegLimbNervate	Re-innervation during successful and unsuccessful limb regeneration	LS3
CALLEWAERT	Nico	Vlaams Instituut voor Biotechnologie	Flanders Institute for Biotechnology (VIB)	BE	GlycoCAR	Targeting of glycosylation pathways to empower CAR-T therapy of solid tumors.	LS7
MARTEL	An	Universiteit Gent	Ghent University	BE	GLOSSI	Targeting skin glycosylation patterns to protect threatened salamanders from disease driven extinction	LS9
HOLCAPEK	Michal	Univerzita Pardubice	University of Pardubice	CZ	ONCOLIPID	Oncolipidomics: Why is lipidomic dysregulation pattern in blood similar for various cancers?	LS2
BOEGER	Rainer	Universitätsklinikum Hamburg-Eppendorf	University Hospital Hamburg	DE	NO PRESSURE	Regulation of the L-arginine – ADMA – Nitric Oxide (NO) Pathway in the Pulmonary Vascular Response to Hypoxia and its Role for Survival of High-Risk COPD Patients	LS7
CHASE	Jonathan	Martin-Luther-Universität Halle-Wittenberg	University of Halle	DE	MetaChange	Biodiversity change across time and space in the Anthropocene: Leveraging metacommunity modelling, land-use change, and open data to achieve deeper understanding	LS8
EILERS	Martin	Julius-Maximilians-Universität Würzburg	University of Würzburg	DE	SENATR	Sensing Aberrant Transcription by MYC Multimers	LS4
GROSS	Cornelius	European Molecular Biology Laboratory	European Molecular Biology Laboratory	DE	TERRITORY	The neural basis of dynamic territorial aggression and fear	LS5
LATZ	Eicke	Universitätsklinikum Bonn	University Medical Centre Bonn	DE	4D-SKINFLAM	Spatio-temporal integration of skin inflammation	LS6
MEISSNER	Alexander	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	Max Planck Society	DE	CancerEpigenome	Dissecting the cancer epigenome – fundamental lessons from developmental biology	LS2
SCHULMAN	Brenda A.	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	Max Planck Society	DE	UPSmeetMet	Ubiquitin-Proteasome System crosstalk with Metabolism	LS1

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SIGRIST	Stephan	Freie Universität Berlin	Free University of Berlin	DE	SynProtect	The synaptic active zone as a signaling hub for sleep homeostasis and resilience	LS5
ZEISER	Robert	Universitätsklinikum Freiburg	University Medical Center Freiburg	DE	AlloCure	Deciphering cellular signalling to cure graft-versus-host disease (GVHD) and leukemia relapse	LS6
BRICKMAN	Joshua Mark	Københavns Universitet	University of Copenhagen	DK	SENCE	Signaling decoded in ENhanCEr states – a molecular basis for plasticity in development and differentiation	LS3
MONTOYA	Guillermo	Københavns Universitet	University of Copenhagen	DK	INTETOOLS	Repurposing of CAST Systems as Next-Generation Tools for Genome Engineering of Mammalian Cells	LS9
MARTINEZ-GONZALEZ	Miguel Angel	Universidad de Navarra	University of Navarra	ES	UNATI	A non-inferiority randomized trial testing an advice of moderate drinking pattern versus advice on abstinence on major disease and mortality	LS7
ROCA-CUSACHS	Pere	Institut de Bioenginyeria de Catalunya	Institute for Bioengineering of Catalonia	ES	MechanoSynth	Engineering synthetic mechanotransduction through nucleocytoplasmic transport	LS3
RUIZ-TRILLO	Ignacio	Universitat Pompeu Fabra	Pompeu Fabra University	ES	MISSINGRELATIVES	Search for the missing unicellular relatives of animals	LS8
TENA-SEMPERE	Manuel	Universidad de Cordoba	University of Cordoba	ES	DOPA-Kiss	Dissecting the Brain Basis of Obesity-Induced Pubertal Alterations: A View to a Kiss	LS4
LAINE	Anna-Liisa	Helsingin yliopisto	University of Helsinki	FI	Co-EvoChange	Coevolutionary Consequences of Biodiversity Change	LS8
BENDAHMANE	Abdelhafid	Institut national de recherche pour l'agriculture, l'alimentation et l'environnement	INRAE	FR	NectarGland	Improving flower attractiveness for pollinators: Study of developmental, morphological and chemical cues in relation to bee foraging	LS9
BOURC'HIS	Deborah	Institut national de la santé et de la recherche médicale	National Institute of Health and Medical Research (INSERM)	FR	HOTIMAGE	HOst-Transposon Interactions in the MAle GERmline	LS2

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LENORMAND	Thomas	Centre National de la Recherche Scientifique (CNRS)	National Center for Scientific Research (CNRS)	FR	RegEvol	The evolution of cis and trans-regulators in eukaryotes	LS8
MITHIEUX	Gilles	Centre National de la Recherche Scientifique (CNRS)	National Center for Scientific Research (CNRS)	FR	IGN	Intestinal Gluconeogenesis: Emerging Regulator of Energy Homeostasis	LS4
VERNOUX	Teva	Centre National de la Recherche Scientifique (CNRS)	National Center for Scientific Research (CNRS)	FR	TEMPO	How plant cells set the tempo of rhythmic shoot construction	LS3
DAWSON	Kenneth	University College Dublin	University College Dublin	IE	FunctionalNanoTher	Functional Nanoscale Therapeutics	LS7
FASS	Deborah	Weizmann Institute of Science	Weizmann Institute of Science	IL	MOLECULAR MUCUS	Molecular Mechanisms for Construction of Protective Mucus Hydrogels	LS1
HADANY	Lilach	Tel Aviv University	Tel Aviv University	IL	PLANT BIOACOUSTICS	Plant bioacoustics: on the emission and reception of airborne sounds by plants, and their adaptive value.	LS8
SAMUELS	Yardena	Weizmann Institute of Science	Weizmann Institute of Science	IL	Mel-Immune	An integrative genetic approach for the exploration of melanoma immunological interactions	LS4
SLUTSKY	Inna	Tel Aviv University	Tel Aviv University	IL	DormantAD	The Silent Phase of Alzheimer's Disease: From Brain States to Homeostatic Failures	LS5
YARDEN	Yosef	Weizmann Institute of Science	Weizmann Institute of Science	IL	ResistSOS	Overcoming Resistance to Anti-cancer Drugs by Blocking Mutation-prone DNA Polymerases and the SOS Response	LS7
AURICCHIO	Alberto	Fondazione Telethon	Fondazione Telethon	IT	EXPEDITE	EXPanding AAV gene therapy by EDITing	LS7
BALLABIO	Andrea	Fondazione Telethon	Fondazione Telethon	IT	INCANTAR	Targeting Inherited Cancer Syndromes	LS4
MATTEVI	Andrea	Università degli Studi di Pavia	University of Pavia	IT	MetaQ	When enzymes join forces: unmasking a mitochondrial biosynthetic engine	LS1

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PICCOLO	Stefano	Università degli Studi di Padova	University of Padua	IT	CHARTAGING	Charting the Token of Time: Yap/Taz Transcriptional Regulators at the Roots of Aging	LS4
RAPPUOLI	Rino	Fondazione Toscana Life Sciences	Toscana Life Sciences, Siena	IT	PROACTIVE	PROposing Action to ConTrol and Impede betacoronavirus Emergencies	LS7
DE VRIES	Elga	VU Medisch Centrum	VU Medical Centre Amsterdam	NL	BRAIN	Bioactive lipids Regulate Adaptive Immune responses in Neurodegeneration: novel target for treatment?	LS5
KLAVER	Caroline	Erasmus Universitair Medisch Centrum Rotterdam	Erasmus Medical Center Rotterdam	NL	CONTROL-MYOPIA	Myopia control in the real world: treatments, target, timing, and terminus	LS7
MANSVELDER	Huibert	Vrije Universiteit Amsterdam	VU Amsterdam	NL	FASTHUMANNEURON	A novel theory of human cortical microcircuit function: Dedicated neuronal networks for fast cellular and synaptic computation	LS5
PASSIER	Robert	Universiteit Twente	University of Twente	NL	HEART2BEAT	Advanced human models of the heart to understand cardiovascular disease	LS7
SÆTHER	Bernt-Erik	Norges teknisk-naturvitenskapelige universitet Trondheim	Norwegian University of Science and Technology Trondheim	NO	EcoEvoRescue	Eco-Evolutionary Rescue of Fragmented Populations	LS8
DZIEMBOWSKI	Andrzej	Międzynarodowy Instytut Biologii Molekularnej i Komórkowej	International Institute of Molecular and Cell Biology	PL	ViveRNA	Principles of endogenous and therapeutic mRNA turnover in vivo	LS2
GORDO	Isabel	Fundação Calouste Gulbenkian	Calouste Gulbenkian Foundation	PT	EvoInHi	Evolution in the Gut in Health and Disease	LS8
MOTA	Maria Manuel	Instituto de Medicina Molecular	Institute of Molecular Medicine, Lisbon	PT	PASSAGE	Plasmodium liver stage schizogony: high replication and genetic diversity	LS3
PINHO	Mariana	Universidade NOVA de Lisboa	NOVA University of Lisbon	PT	MissingLinks	Finding the missing links in the bacterial cell cycle	LS6
VEIGA FERNANDES	Henrique	Fundação Champalimaud	Champalimaud Foundation	PT	NeurImmKisses	Architecture of Peripheral Neuroimmune Circuits and Synapses	LS6
BACKHED	Fredrik	Göteborgs universitet	University of Gothenburg	SE	IMPACT	Imidazole propionate and fibrosis in cardiometabolic diseases	LS4

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CASTELO-BRANCO	Gonçalo	Karolinska Institutet	Karolinska Institute	SE	SingleMS	Unveiling the functional outcome of single nucleotide polymorphisms and variants in oligodendroglia in multiple sclerosis	LS7
DEINDL	Sebastian	Uppsala Universitet	Uppsala University	SE	DONUTS	Dependence Of NUCleosome Transactions on Sequence	LS1
ERIKSSON	Maria	Karolinska Institutet	Karolinska Institute	SE	SOMATICART	Somatic mutations in vascular-wall function and age-associated disease	LS4
HANSSON	Oskar	Lunds universitet	Lund University	SE	ADVANCE-AD	Novel biomarkers for improving diagnostics, prognostics, and treatments of Alzheimer's disease	LS7
HÖGBERG	Björn	Karolinska Institutet	Karolinska Institute	SE	qScope	The sequencing microscope - a path to look at the molecules of biology	LS9
BILL	Roslyn	Aston University	Aston University	UK	FORTIFY	From Molecular Physiology to Biophysics of the Glymphatic System: a Regulatory Role for Aquaporin-4	LS1
BROCKDORFF	Neil	University of Oxford	University of Oxford	UK	INTACTRNA	Integrated analysis of cis-acting translocated RNAs	LS2
CHEN	Yin	University of Warwick	University of Warwick	UK	EcoMethane	An integrated ecophysiology and omics study of phosphorus limitation in methane-oxidising bacteria (EcoMethane)	LS8
COULSON	Tim	University of Oxford	University of Oxford	UK	Biotic Change	Why do some types of biotic change produce predictable ecological, evolutionary and life history strategy change	LS8
EATON	Philip Eaton	Queen Mary University of London	Queen Mary University of London	UK	BeyondSNO	Signalling beyond protein S-nitrosylation – determining the roles of nitroxyl and hydroxylamine	LS4
HARRIS	Kenneth	University College London	University College London	UK	TRANSCORTEX	Computations of transcriptomic neuron types in cortex	LS5

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LAMB	Sallie	University of Exeter	University of Exeter	UK	STEPPING OUT	STEPPING OUT: Understanding the ground truth and mechanisms of falls and balance instability in community dwelling older people.	LS7
MACLEAN	Craig	University of Oxford	University of Oxford	UK	EEDARP	Ecological and Evolutionary Drivers of Antibiotic Resistance in Patients	LS8
MIGUEL-ALIAGA	Irene	Imperial College of Science, Technology and Medicine	Imperial College of Science, Technology and Medicine	UK	GutOrigami	The Geometry of Inter-Organ Communication	LS3
ROBINSON	Carol	University of Oxford	University of Oxford	UK	IMPLEMENT	Integral Membrane Proteins and Lipids Ejected from the Membranes of Native Tissues	LS1
SOUTOGLOU	Evi	University of Sussex	University of Sussex	UK	ChromoSENSOR	The shielding role of the nuclear periphery against the genetic and non-genetic consequences of DNA damage	LS1
TEICHMANN	Sarah	Genome Research Limited	Genome Research Limited	UK	ThyDESIGN	Learning from the thymic human cell atlas for T cell engineering	LS2