



## List of SERI-funded ERC Starting and Consolidator Grants

**Information as of 7 November 2022** - Please note that this list is not conclusive and is being updated continuously, starting with the newest projects.

### ➤ SERI-funded ERC Starting Grants

Acronym	Full title	Principal Investigator/ Institution	EU
SPREAD	Globalized trade and the accidental spread of invasive species	BERTELSMEIER Cleo University of Lausanne	1'515'915
I'M AGEING	Integrated Microphysiological-omic approach to identify blood proteins reverting vascular AGEING	BERSINI Simone Università della Svizzera italiana	2'647'966
E-CONVERT	Three-terminal particle-exchange heat engines for efficient energy conversion at the nanoscale	PERRIN Mickael Lucien Swiss Federal Laboratories for Materials Sciences and Technology (Empa) & Swiss Federal Institute of Technology Zurich (ETHZ)	2'003'582
CoGS	Collective Guilt and Shame	MATHESON Benjamin University of Bern	1'658'664
Strong-H-cQED	Hybrid Circuit Quantum Electrodynamics in the Strong and Ultra-Strong Coupling Regime	SCARLINO Pasquale Swiss Federal Institute of Technology Lausanne (EPFL)	2'211'252
MorphoReg	Spatio-temporal dynamics of mechano-chemical signalling in zebrafish bone regeneration	DE SIMONE Alessandro University of Geneva	1'659'299
XrayConnectomics	Connectivity constraints of attractor-like dynamics and fundamental computations in neuronal circuits	WANNER Adrian Paul Scherrer Institut	1'659'299



Acronym	Full title	Principal Investigator/ Institution	EU
MOANA	Mechanistic model simulations of the marine biological carbon pump	LAUFKOETTER Charlotte University of Bern	1'659'162
ASSISTED	Assisted Dying in European Writing and Visual Culture: Reciprocal Interactions between Law, Medicine, and the Arts since 2000	ELSNER Anna Magdalena University of St-Gallen	1'658'126
DARKSKIES	Measuring the self-interaction cross-section of dark matter with all-sky surveys	HARVEY David Swiss Federal Institute of Technology Lausanne (EPFL)	1'647'224
COOLCCAT	COherent Operation of a Logical Concatenated CAT qubit	GRIMM Alexander Paul Scherrer Institut	2'762'856
MitoControl	Mitochondria-driven redox control of motivational drives	KEMPF Anissa University of Basel	1'650'362
IMPOSSIBLE	Impossibility Results in Computational Complexity	GÖÖS Mika Swiss Federal Institute of Technology Lausanne (EPFL)	1'648'111
GEOSYM	Harnessing Geometry and Symmetry in Optimization for DataScience	BOUMAL Nicolas Swiss Federal Institute of Technology Lausanne (EPFL)	1'645'555
ARTISTE	Anomalous non-Reciprocal Topological networks for robuST microwavE devices	FLEURY Romain Swiss Federal Institute of Technology Lausanne (EPFL)	1'658'971
FoBEx	Food Webs and Biodiversity Change in an Extreme World	THAKUR Madhav University of Bern	1'658'747
VoICOPE	Climate impact and human consequences of past volcanic eruptions	HUHTAMAA Heli University of Bern	1'618'243



Acronym	Full title	Principal Investigator/ Institution	EU
SAND	Smart and Autonomous Neurostimulation Devices for Chronic Neurological Disorders	SHOARAN Mahsa Swiss Federal Institute of Technology Lausanne (EPFL)	1'658'039
FIREPATH	Dynamic microstructural MRI to track the full path of neuronal activity across the human brain	JELESCU Ileana Lausanne University Hospital (CHUV)	1'659'300
2ATMO	Production of Secondary Atmospheres	SOSSI Paolo Swiss Federal Institute of Technology Zurich (ETHZ)	1'900'125
TENSE	Irregular solutions of the Transport, Euler and Navier-Stokes Equations	COLOMBO Maria Swiss Federal Institute of Technology Lausanne (EPFL)	1'544'974
CURATE	CURATE: The data practices of European law enforcement and border control	LEESE Matthias Swiss Federal Institute of Technology Zurich (ETHZ)	1'651'067
TRIDENT	Rigorous and Practical Joint Analysis of Data Processing and Machine Learning: Theory and Systems	ZHANG Ce Swiss Federal Institute of Technology Zurich (ETHZ)	1'656'489
STRESSIG	Heritability of stress receptor signatures in the germline Father-Son-Talks	GAPP Katharina Swiss Federal Institute of Technology Zurich (ETHZ)	1'658'491
TAILSS	Tools from AI for Law and Social Science	ASH Elliott Swiss Federal Institute of Technology Zurich (ETHZ)	1'659'300
META-MORPHOSIS	Identifying how life cycle variation tras biodiversity in changing environments over time and space	FABRE Anne-Claire University of Bern	1'657'710



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Education and Research EAER  
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Research and Innovation SERI**

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EU Framework Programmes

Acronym	Full title	Principal Investigator/ Institution	EU
HEALTHSENSE	Wearable health monitors enabled by flame-aerosol engineering	GUENTNER Andreas Swiss Federal Institute of Technology Zurich (ETHZ)	1'658'161
DriveTransformation	Understanding the Molecular Machines Driving Natural Transformation	HOSPENTHAL Manuela Swiss Federal Institute of Technology Zurich (ETHZ)	1'659'300
TransMed	Transparent Machine Learning in Medicine: development and application of interpretable and explainable models	VOGT Julia Swiss Federal Institute of Technology Zurich (ETHZ)	1'658'864
CULTURES ADAPT	Animal culture under change: a landscape-level analysis of socio-cognitive responses to human impact	APLIN Lucy University of Zurich	1'659'079
PROMISE	Proactive Microarchitectural Security	RAZAVI Kaveh Swiss Federal Institute of Technology Zurich (ETHZ)	1'658'806



➤ **SERI-funded ERC Consolidator Grants**

Acronym	Full title	Principal Investigator/ Institution	Direct funding by SERI (CHF)
DEBATE	Deciphering the role of B cells and antibodies during tuberculosis	KING Carolyn University of Basel	2'201'864
PROFEM	Improving Female Migrants' Labour Market Positioning – An Intersectional Approach to Occupational Segregation Processes Across Countries and Over Time.	STEINMETZ Stephanie University of Lausanne	2'099'693
FiatLux	A Complete View of Galaxies at Cosmic Dawn	OESCH Pascal University of Geneva	2'206'558
GeneREPAIR	Establishing DNA double-strand break independent genome editing approaches to treat monogenetic brain disorders	SCHWANK Gerald University of Zurich	2'205'996
mifeePs	Decoding microbiota feedbacks on plants	SCHLAEPPI Klaus University of Basel	2'206'600
CavitySuperTop	Cavity-induced superconductivity and topological states of matter	KLINOVA Jelena University of Basel	2'163'888
RACE-GO	Rapid Active Coronagraphy of Exoplanets from a Ground Observatory	KUEHN Jonas Guillaume University of Bern	2'762'939
AI-PERCEIVE	Robust Human-centric Computer Vision for Advanced AI-Agents	HILLIGES Otmar Swiss Federal Institute of Technology Zurich (ETHZ)	2'212'400
Lipo Trace	Tracing single-cell Lipidomes	D'ANGELO Giovanni Swiss Federal Institute of Technology Lausanne (EPFL)	2'069'704



Acronym	Full title	Principal Investigator/ Institution	Direct funding by SERI (CHF)
ISAC	Integrated Structural Analysis of the Centriole	GUICHARD Paul University of Geneva	2'177'638
QEDMaterial	Cavity Quantum Materials Electrodynamics	CAVIGLIA Andrea University of Geneva	1'999'257
ProbQuant	Probability and complex quantum systems	KNOWLES Antti University of Geneva	2'148'601
TuLiP	Developing the Chemistry for Tunable Liquid Metal Nanoparticles towards Reconfigurable Materials	BUONSANTI Raffaella Swiss Federal Institute of Technology Lausanne (EPFL)	2'480'889
Cys-Code	Unmasking context-specific functional protein cysteines in living systems: understanding spatiotemporal stress signaling and precision ligand-target design	AYE Yimon Swiss Federal Institute of Technology Lausanne (EPFL)	2'206'600
deTermINT	Premature termination of RNA polymerase II transcription: From mechanism to molecular basis of gene specificity	JONAS Stephanie Swiss Federal Institute of Technology Zurich (ETHZ)	2'206'600
DDisQS	Driven and Dissipative Quantum Simulators	BRANTUT Jean-Philippe Swiss Federal Institute of Technology Lausanne (EPFL)	2'186'514
ProteusDrone	Meta-morphic tri-modal mobility for robotics (ProteusDrone)	KOVAC Mirko Swiss Federal Laboratories for Materials Sciences and Technology (Empa)	2'196'190
COLLABORO	Adaptive history of human socio-cognitive development	MIGLIANO Andrea University of Zurich	2'206'321
muEDM	Search for the muon electric dipole moment using the frozen-spin technique	SCHMIDT WELLENBURG Philipp Paul Scherrer Institut	2'189'735



Acronym	Full title	Principal Investigator/ Institution	Direct funding by SERI (CHF)
SVEN	Raphe-to-habenula — a serotonin subsystem for valence encoding	MAMELI Manuel University of Lausanne	2'206'350
POTCO	Polyhedral Techniques in Combinatorial Optimization	SVENSSON Ola Swiss Federal Institute of Technology Lausanne (EPFL)	1'894'123
TDP-43 transitions	Analysis of structure-function transitions of TDP-43 for mechanistic understanding of neurodegenerative diseases	POLYMENIDOU Magdalini University of Zurich	2'203'617
EXPAT	Experiments on Particles in Turbulence across Scales and Regimes	COLETTI Filippo Swiss Federal Institute of Technology Zurich (ETHZ)	3'298'055
cryOcean	Cryo-Electron Tomography for the Ocean: Molecular Architecture and Photosynthetic Adaptation of Marine Algae	ENGEL Benjamin University of Basel	2'205'282
SenseLife	Remote sensing of living organisms with full Stokes spectro-polarimetry	DEMORY Brice Olivier University of Bern	2'200'670
Epi-Mnemo	DNA-templated mechanisms of memory storage	GRAEFF Johannes Swiss Federal Institute of Technology Lausanne (EPFL)	2'206'577
MechanoBody	Mechanical Optimization of Non-antibody Binding Scaffolds	NASH Michael University of Basel	2'205'262
NEQS	Neural Quantum Simulation	CARLEO Giuseppe Swiss Federal Institute of Technology Lausanne (EPFL)	2'206'600



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EU Framework Programmes

Acronym	Full title	Principal Investigator/ Institution	Direct funding by SERI (CHF)
CANWAS	Canopy Waves - Volatile Information Transfer Across Multiple Plants	ERB Matthias University of Bern	3'146'612