List of H2020 Technion ERC winners by panel

Panel	Name	Faculty	Acronym	Instrument	Project Title	Call
LS2	Reut Shalgi	Medicine	TranslationRegCode	STG	Cracking the Translation Regulatory Code	2015
LS2	Tomer Shlomi	Computer Science	CancerFluxome-1	STG	Cancer Cellular Metabolism across Space and Time	2016
LS2	Amit Zeisel	Biotech	TYPEWIRE	STG	Reconstructing wiring rules of in vivo neural networks using simultaneous single-cell connectomics and transcriptomics	2019
LS4	Lior Gepstein	Medicine	iPS-ChOp-AF	COG	Combining induced pluripotent stem cells, tissue engineering, optogenetic and chemogenetic concepts for the study and treatment of atrial fibrillation	2017
LS5	Asya Rolls	Medicine	NEIMO	STG	Neuronal regulation of immunity	2017
LS5	Shay Stern	Biology	BehavIndividuality	STG	Uncovering the basis of behavioral individuality across developmental time-scales	2019
LS7	Shy Shoham	Biomedical Engineering	HoloVision	COG	Advanced holographic optical neural stimulation for vision restoration and basic research	2014
LS7	Avi Schroeder	Chemical Engineering	BARCODE DIAGNOSTIC	STG	Next-Generation Personalized Diagnostic Nanotechnologies for Predicting Response to Cancer Medicine	2015
LS7	Josue Sznitman	BioMedical Engineering	RespMicroFlows	STG	Unravelling respiratory microflows in silico and in vitro: novel paths for targeted pulmonary delivery in infants and young children	2015
LS7	Yuval Shaked	Medicine	PhenoSwitch-1	COG	Phenotype switching: plasticity and/or differentiation of stromal cells and their progenitors within the tumour microenvironment regulate tumour fate.	2017
LS7	Shulamit Levenberg	Biomedical Engineering	VesselNet	COG	Engineering Composite Tissues for Facial Reconstruction	2018
LS8	Debbie Lindell	Biology	PhageDiff	COG	Distinct Infection Dynamics and Ecological Success among Closely Related Marine Cyanophages:Why the Differences?	2014
LS9	Shai Berlin	Medicine	MAGNIFISCENT	STG	mesoscale multi-mode MRI of molecular targets	2019
PE1	Emanuel Milman	Mathematics	CONC-VIA-RIEMANN	STG	High-Dimensional Convexity, Isoperimetry and Concentration via a Riemannian Vantage Point	2014
PE1	Uri Shapira	Mathematics	HD-App	STG	New horizons in homogeneous dynamics and its applications	2017
PE1	Emanuel Milman	Mathematics	ISOPERIMETRY	COG	Sharp Isoperimetric Inequalities - Old and New	2020
PE2	Carmel Rotschild	Mechanical Engineering	ThforPV	STG	New Thermodynamic for Frequency Conversion and Photovoltaics	2014
PE2	David Gershoni	Physics	DG-PESP-CS	ADG	Deterministic Generation of Polarization Entangled single Photons Cluster States	2015
PE2	Mordechai (Moti) Segev	Physics	Topo Ins Laser	ADG	Topological Insulator Laser	2017
PE2	Ido Kaminer	Electrical Engineering	NanoEP	STG	Enabling Novel Electron-Polariton Physics with Nanophotonic Platforms	2019

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PE2	Michael Krueger	Physics	ATTIDA	STG	Attosecond space-time imaging of coherent quantum dynamics	2019
PE3	Netanel Lindner	Physics	TOPFRONT	STG	Expanding the Topological Frontier in Quantum Matter: from Concepts to Future Applications	2014
PE3	Kinneret Keren	Physics	HYDRAMECHANICS-1	COG	Mechanical Aspects of Hydra Morphogenesis	2018
PE4	Amit Meller	Biomedical Engineering	NanoProt-ID-1	ADG	Proteome profiling using plasmonic nanopore sensors	2018
PE4 / LS2	Moran Bercovici	Mechanical Engineering	MetamorphChip	STG	Dynamic Microfluidic Structures for Analysis of Single Cell Systems	2015
PE5	Yehonadav Bekenstein	Materials	HeteroPlates	STG	Halide perovskite heterostructures based on 2D nanoplates building blocks for next generation optoelectronics	2020
PE5	Ilan Marek	Chemistry	BioMet	ADG	Selective Functionalization of Saturated Hydrocarbons	2017
PE5	Ashraf Brik	Chemistry	SynProAtCell-1	ADG	Delivery and On-Demand Activation of Chemically Synthesized and Uniquely Modified Proteins in Living Cells	2018
PE6	Anat Levin	Electrical Engineering	lightMaterInt	STG	Exploiting light and material interaction	2014
PE6	Nir Ailon	Computer Science	SpeedInfTradeoff	COG	Speed-Information Tradeoffs: Beyond Quasi-Entropy Analysis	2015
PE6	Moshe Tennenholtz	Industrial Engineering and Ma	MDDS	ADG	Mechanism Design for Data Science	2016
PE6	Yuval Ishai	Computer Science	NTSC	ADG	New Techniques for Secure Computation	2016
PE6	Mirela Ben-Chen	Computer Science	OPREP	STG	Operator Based Representations for Geometry Processing	2016
PE6	Keren Censor-Hillel	Computer Science	BANDWIDTH	STG	The cost of limited communication bandwidth in distributed computing	2017
PE6	Ronen Talmon	Electrical Engineering	DIFFOP	STG	Nonlinear Data and Signal Analysis with Diffusion Operators	2018
PE6	Yuval Filmus	Computer Science	HARMONIC	STG	Discrete harmonic analysis for computer science	2018
PE6	Roy Schwartz	Computer Science	SUBMODULAR	STG	The Power of Randomness and Continuity in Submodular Optimization	2019
PE6	Alex Bronstein	Computer Science	EARS	COG	Acoustics-based drone navigation and interaction	2019
PE7	Yonina Eldar	Electrical Engineering	BNYQ	COG	Breaking the Nyquist Barrier: A New Paradigm in Data Conversion and Transmission	2014
PE7	Shlomo Shamai	Electrical Engineering	CloudRadioNet	ADG	Cloud Wireless Networks: An Information Theoretic Framework	2015

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PE7	Shahar Kvatinsky	Electrical Engineering	Real-PIM-System	STG	Memristive In-Memory Processing System	2017
PE7	Oren Cohen	Physics	TIMP	COG	Ultrahigh-speed nanometer-scale microscopy	2018
PE7	Yoav Shechtman	Biomedical Engineering	5D-NanoTrack	STG	Five-Dimensional Localization Microscopy for Sub-Cellular Dynamics	2018
PE7	Lilac Amirav	Chemistry	NanoGraphy	STG	Plasmon Enhanced Photocatalytic Nano Lithography	2019
PE8	Beni Cukurel	Aerospace	ThermoTON	STG	Thermophone - a novel heat transfer based approach to global TOnal Noise cancellation in aviation	2018
PE8	Netanel Korin	Biomedical Engineering	VasoSurfer	COG	Engineering Interfacial Fluid Trapping for Localized Treatment of Brain Aneurysms	2020
PE9	Hagai Perets	Physics	SNeX	COG	The origins of thermonuclear supernova explosions	2019
PE	Yoav Schechner	Electrical Engineering	CloudCT	SYG	Climate CT- Cloud Tomography by Satellites for Better Climate Prediction	2018
SH2	Assaf Shwartz	Architecture	MAGNIFISCENT	STG	Beyond assuming co-benefits in Nature-based Solutions: Applying the niche concept for optimizing social and ecological outcomes	2019