

**ERC Starting Grant 2009 - First results - PHYSICAL SCIENCES and ENGINEERING**

**List of projects invited for funding (alphabetical order)**

**UPDATED 29/ 10/ 2009**

Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
ALIBERT	Yann	Universitaet Bern	CH	PLANETOGENESIS	Building the next generation of planet formation models: protoplanetary disks, internal structure, and formation of planetary systems	PE9
ARDHUIN	Fabrice	Institut Français pour la Recherche et l'Exploitation de la Mer	FR	IOWAGA	Interdisciplinary Ocean Wave for Geophysical and other applications	PE10
ARROYO	Marino	Universitat Politècnica de Catalunya	ES	PREDMODSIM	Predictive models and simulations in nano- and biomolecular mechanics: a multiscale approach	PE8
ASPELMEYER	Markus	Osterreichische Akademie der Wissenschaften	AT	QOM	Quantum Optomechanics: quantum foundations and quantum information on the micro- and nanoscale	PE2
BACH	Francis	Institut National de Recherche en Informatique et en Automatique	FR	SIERRA	SIERRA: Sparse Structured Methods for Machine Learning	PE6
BACKES	Michael	Saarland University	DE	END2ENDSECURITY	Practical design and analysis of certifiably secure protocols - theory and tools for end-to-end security	PE6
BALDINI	James	University of Durham	UK	HURRICANE	Past hurricane activity reconstructed using cave deposits: Have humans increased storm risk?	PE10
BARYCHEV	Andrei	SRON Netherlands Institute for Space Research	NL	TFPA	Study of Terahertz Focal Plain Arrays	PE9
BEC	Jérémie	Observatoire de la Côte d'Azur	FR	Atmoflex	Turbulent Transport in the Atmosphere: Fluctuations and Extreme Events	PE3
BEN-SASSON	Eli	Technion - Israel Institute of Technology	IL	PaC	Proofs and Computation	PE6
BENA	Iosif Lucian Razvan	Commissariat à l'Énergie Atomique (CEA)	FR	String-QCD-BH	String Theory, QCD and Black Holes	PE2
BERGER	Noam	Hebrew University of Jerusalem	IL	LimitTRandomMedia	Limit theorems for processes in random media	PE1
BIANCHINI	Stefano	Scuola Internazionale Superiore di Studi Avanzati	IT	ConLaws	Hyperbolic Systems of Conservation Laws: singular limits, properties of solutions and control problems	PE1
BIENSTMAN	Peter	Universiteit Gent	BE	NaResCo	Novel paradigms for massively parallel nanophotonic information processing	PE7
BOGONI	Antonella	Consorzio Nazionale Interuniversitario per le Telecomunicazioni	IT	PHODIR	PHOtonic-based full Digital Radar	PE7
BOJANCZYK	Mikolaj	Uniwersytet Warszawski	PL	Sosna	Expressive Power of Tree Logics	PE6
BOSCAIN	Ugo	Centre National de la Recherche Scientifique (CNRS)	FR	GeCoMethods	Geometric control methods for heat and Schroedinger equations	PE1
BOUILLON	Steven	Katholieke Universiteit Leuven	BE	AFRIVAL	AFrican RIVER basins And Lakes: catchment-scale carbon fluxes and transformations	PE10
BOURGEOIS	Frédéric	Université Libre de Bruxelles	BE	ContactMath	Legendrian contact homology and generating families	PE1
BRETTE	Romain	École Normale Supérieure	FR	SPIKEHEAR	Spiking neural models of auditory perception	PE6
BRIDLE	Sarah Louise	University College London	UK	CoGS	Capitalizing on Gravitational Shear	PE9
BROWAEYS	Antoine	Centre National de la Recherche Scientifique (CNRS)	FR	ARENA	Arrays of entangled atoms	PE2
CAPONE	Massimo	Consiglio Nazionale delle Ricerche	IT	SUPERBAD	Understanding high-temperature superconductivity from the foundations: Superconductivity as a cure of bad metallic behaviour	PE3
CAUPIN	Frédéric	École Normale Supérieure	FR	WASSR	Water anomalies in the stretched and supercooled regions	PE3
COATES	Tom	Imperial College of Science, Technology and Medicine	UK	GWT	Gromov-Witten Theory: Mirror Symmetry, Modular Forms, and Integrable Systems	PE1
CORANDER	Jukka Ilmari	Åbo Akademi	FI	SmartBayes	Intelligent Stochastic Computation Methods for Complex Statistical Model Learning	PE1
COSTAS	Miquel	Universitat de Girona	ES	BIDECASEOX	Bio-inspired Design of Catalysts for Selective Oxidations of C-H and C=C Bonds	PE5
CREMERS	Daniel	Rheinische Friedrich-Wilhelms-Universität Bonn	DE	ConvexVision	Convex Optimization Methods for Computer Vision and Image Analysis	PE6
CRUCIFIX	Michel	Université Catholique de Louvain	BE	ITOP	Integrated Theory and Observations of the Pleistocene	PE10
DADDI	Emanuele	Commissariat à l'Énergie Atomique (CEA)	FR	UPGAL	Understanding the Physics of Galaxy Formation and Evolution at High Redshift	PE9

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DETAVERNIER	Christophe	Universiteit Gent	BE	COCOON	Conformal coating of nanoporous materials	PE8
DINUR	Irit	Weizmann Institute of Science	IL	STRONGPCP	Strong Probabilistically Checkable Proofs	PE6
ERBAN	Radek	Chancellor, Masters and Scholars of the University of Oxford	UK	StoAndMulModInBio	Stochastic and Multiscale Modelling in Biology	PE1
ERNST	Thomas	Commissariat à l'Énergie Atomique (CEA)	FR	DELPHINS	Design And Elaboration of Multi-Physics Integrated Nanosystems	PE7
FILBET	Francis	Universite Claude Bernard Lyon 1	FR	NuSiKiMo	Numerical simulations and analysis of kinetic models - Applications to plasma physics	PE1
FONTCUBERTA I MORRAL	Anna	Ecole Polytechnique Fédérale de Lausanne	CH	UpCon	Ultra-Pure nanowire heterostructures and energy CONversion	PE5
FORSSÉN	Christian	Chalmers Tekniska Hoegskola AB	SE	ANSR	Ab initio approach to nuclear structure and reactions (++)	PE2
FRAGOULI	Christina	Ecole Polytechnique Fédérale de Lausanne	CH	NOWIRE	Network Coding for Wireless Networks	PE7
FRAUENRATH	Holger	Ecole Polytechnique Fédérale de Lausanne	CH	OrgEINanoCarbMater	A Universal Supramolecular Approach toward Organic Electronic Materials and Nanostructured Carbonaceous Materials from Molecular Precursors	PE5
GARCIA IRASTORZA	Igor	Universidad de Zaragoza	ES	TREX	Novel Developments in Time Projection Chambers (TPCs) for Rare Event Searches in Underground Astroparticle EXperiments	PE2
GERSHON	Tim	University of Warwick	UK	BSMwLHCb	Advanced techniques to Search for Physics Beyond the Standard Model with the LHCb Detector at CERN	PE2
GIULIANI	Alessandro	Università degli Studi Roma Tre	IT	CoMBoS	Collective phenomena in quantum and classical many body systems	PE1
GIUSTINO	Feliciano	Chancellor, Masters and Scholars of the University of Oxford	UK	ALIGN	Ab-initio computational modelling of photovoltaic interfaces	PE5
GORODNYK	Oleksandr	University of Bristol	UK	DynRigDiophGeom	Dynamics of Large Group Actions, Rigidity, and Diophantine Geometry	PE1
GROBERT	Nicole	Chancellor, Masters and Scholars of the University of Oxford	UK	DEDIGROWTH	Dedicated growth of novel 1-dimensional materials for emerging nanotechnological applications	PE5
GROZEMA	Ferdinand	Technische Universiteit Delft	NL	SingFiss	Singlet exciton fission as a route to more efficient dye-sensitized solar cells	PE4
GUIDONI	Leonardo	Sapienza - Università di Roma	IT	MultiscaleChemBio	Electronic Structure of Chemical and Biochemical Systems: Multiscale Approach with Electron Correlation	PE4
HEIKKILÄ	Tero Tapio	Teknillinen Korkeakoulu	FI	Heatronics	Mesoscopic heatronics: thermal and nonequilibrium effects and fluctuations in nanoelectronics	PE3
HEIRI	Oliver	Universiteit Utrecht	NL	RECONMET	Reconstruction of methane flux from lakes: development and application of a new approach	PE10
HELMI	Amina	Rijksuniversiteit Groningen	NL	Galactica	Dynamical imprints of the evolutionary history of the Milky Way	PE9
HERRMANN	Andreas	Rijksuniversiteit Groningen	NL	NUCLEOPOLY	DNA Block Copolymers: New Architectures and Applications	PE5
HEYMANS	Catherine	The University of Edinburgh	UK	FORCE	Fine Observations of the Rate of Cosmic Expansion: Combining the powers of Weak Gravitational Lensing and Baryon Acoustic Oscillations as Probes of Dark Energy	PE9
HOFFMANN-VOGEL	Regina	Universität Karlsruhe (Technische Hochschule)	DE	NANOCONTACTS	Structural and electronic properties of nanoscale metallic contacts fabricated by thermally assisted electromigration	PE3
KEEVASH	Peter	Queen Mary and Westfield College, University of London	UK	EC	Extremal Combinatorics	PE1
KIS	Andras	Ecole Polytechnique Fédérale de Lausanne	CH	FLATRONICS	Electronic devices based on nanolayers	PE3
KOEHL	Michael Karl	The Chancellor, Masters and Scholars of the University of Cambridge	UK	Atomion	Exploring hybrid quantum systems of ultracold atoms and ions	PE2
KROS	Alexander	Universiteit Leiden	NL	DirectDelivery	Controlled fusion of liposomes and cells: a new pathway for direct drug delivery	PE5
LAURITSEN	Jeppe Vang	Aarhus Universitet	DK	OxideSynergy	Understanding the Atomic Scale Synergies of Catalytically Active Nanoclusters on Metal Oxide Surfaces	PE4
LEI	Yong	Westfälische Wilhelms-Universität Münster	DE	ThreeDSurface	Three-Dimensional Surface Nano-Patterning: Concepts, Challenges and Applications	PE5

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Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
LIDDLE	Stephen	University of Nottingham	UK	UNCLE	UNCLE: Uranium in Non-Conventional Ligand Environments	PE5
LIMPERT	Jens	Friedrich-Schiller-Universität Jena	DE	PECS	Powerful and Efficient EUV Coherent Light Sources	PE3
LINDELL	Yehuda	Bar-Ilan University	IL	LAST	Large Scale Privacy-Preserving Technology in the Digital World - Infrastructure and Applications	PE6
MANNA	Liberato	Fondazione Istituto Italiano di Tecnologia	IT	NANO-ARCH	Assembly of Colloidal Nanocrystals into Unconventional Types of Nanocomposite Architectures with Advanced Properties	PE5
MARKAKI	Athina	The Chancellor, Masters and Scholars of the University of Cambridge	UK	AFFINITY	Actuation of Ferromagnetic Fibre Networks to improve Implant Longevity	PE8
MARTÍNEZ DE LA FUENTE	Jesús	Universidad de Zaragoza	ES	NANOPUZZLE	Multifunctional Magnetic Nanoparticles: Towards Smart Drugs Design	PE5
MEIJLER	Michael	Ben-Gurion University of the Negev	IL	QUORUMPROBES	An Integrated Chemical Platform to Elucidate Eukaryotic Sensing of Bacterial Crosstalk	PE5
MOLINARI	Jean-François	Ecole Polytechnique Fédérale de Lausanne	CH	UFO	Uncovering the origins of friction	PE8
MURRAY	Benjamin	University of Leeds	UK	ICE	Laboratory and modelling studies of ice nucleation and crystallisation in the Earth's atmosphere	PE10
NÖLL	Gilbert	Universität Siegen	DE	Dodecin	Construction of a Molecular Crane Based on the Flavoprotein Dodecin	PE4
O'BRIEN	Fergal Joseph	Royal College of Surgeons in Ireland	IE	CollRegen	Collagen scaffolds for bone regeneration: applied biomaterials, bioreactor and stem cell technology	PE8
O'BRIEN	Jeremy Lloyd	University of Bristol	UK	IQP	Integrated quantum photonics	PE2
OUDEYER	Pierre-Yves	Institut National de Recherche en Informatique et en Automatique	FR	EXPLORERS	EXPLORERS: Exploring epigenetic robotics: raising intelligence in machines	PE6
OXENLØWE	Leif Katsuo	Danmarks Tekniske Universitet	DK	SOCRATES	Serial Optical Communications for Advanced Terabit Ethernet Systems	PE7
PALOMARES	Emilio	Fundació Privada Institut Català d'Investigació Química (ICIQ)	ES	PolyDot	Control of the Electronic Properties in Hybrid- Quantum Dot/Polymer-Materials for Energy Production	PE4
PAPATHANASIOU	Athanasios	National Technical University of Athens	EL	HYDROFAKIR	Roughness design towards reversible non- / full-wetting surfaces: From Fakir Droplets to Liquid Films	PE8
PFEIFFER	Franz	Technische Universität München	DE	x-ray-bioimaging	X-ray phase-contrast imaging for biomedical applications	PE3
PRINS	Leonard Jan	Università degli Studi di Padova	IT	DYCOCA	DYNAMIC COVALENT CAPTURE: Dynamic Chemistry for Biomolecular Recognition and Catalysis	PE5
PULKKI	Ville	Teknillinen Korkeakoulu	FI	TePeSS	Technologies and psychophysics of spatial sound	PE7
PUMERA	Martin	University of Neuchatel	CH	LabChip_Multiplex	Simultaneous Detection of Multiple DNA and Protein Targets on Paramagnetic Beads Packed in Microfluidic Channels using Quantum Dots as Tracers	PE4
QUÉRÉ	Fabien	Commissariat à l'Energie Atomique (CEA)	FR	PLASMOPT	Ultrahigh-Intensity Plasma Optics	PE2
RAMON	Jan	Katholieke Universiteit Leuven	BE	MiGraNT	Mining Graphs and Networks: a Theory-based approach	PE6
RODRIGUEZ-VILLEGAS	Esther Olivia	Imperial College of Science, Technology and Medicine	UK	WEEG	"Chips on the go": towards truly wearable EEG systems	PE7
ROKE	Sylvie	Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V.	DE	MINE	Molecular Interfacial structure and dynamics of Nanoscopic droplets in Emulsions (MINE)	PE4
SANTOS	Nuno Miguel	Centro de Investigacao em Astronomia e Astrofisica da Universidade do Porto Associacao	PT	EXOEarths	EXtra-solar planets and stellar astrophysics: towards the detection of Other Earths	PE9
SARIG	Omri Moshe	Weizmann Institute of Science	IL	ErgodicNonCompact	Ergodic theory on non compact spaces	PE1
SCHERMAN	Oren Alexander	Chancellor, Masters and Scholars of the University of Cambridge	UK	ASPiRe	Aqueous Supramolecular Polymers and Peptide Conjugates in Reversible Systems	PE5
SCHLEIN	Benjamin	Chancellor, Masters and Scholars of the University of Cambridge	UK	MAQD	Mathematical Aspects of Quantum Dynamics	PE1
SHARON	Eran	Hebrew University of Jerusalem	IL	SoftGrowth	Growth and Shaping of Soft Tissue	PE5
SHARON	Michal	Weizmann Institute of Science	IL	LARGEMS	The Dynamic Composition of Protein Complexes: A New Perspective in Structural Biology	PE4

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SILLANPÄÄ	Mika Antero	Teknillinen Korkeakoulu	FI	NEMSQED	Electromechanical quantum coherent systems	PE3
STOLL	Heather Marie	Universidad de Oviedo	ES	PACE	Precedents for Algal Adaptation to Atmospheric CO2: New indicators for eukaryotic algal response to the last 60 million years of CO2 variation	PE10
SZEIDER	Stefan	University of Durham	UK	COMPLEX REASON	The Parameterized Complexity of Reasoning Problems	PE6
TREPS	Nicolas	Université Pierre et Marie Curie - Paris 6	FR	Frecquam	Frequency Combs Quantum Metrology	PE2
TROISI	Alessandro	University Of Warwick	UK	MIMESIs	Microscopic Modelling of Excitonic Solar Cell Interfaces	PE4
TSHUVA (GOLDBERG)	Edit	Hebrew University of Jerusalem	IL	SmartDrugEntities	Sophisticated Well-Targeted Therapeutic Entities based on Biologically Compatible Ti(IV) Active Cores and Building Blocks	PE5
TSOGKA	Chrysoula	Foundation for Research and Technology Hellas	EL	ADAPTIVES	Algorithmic Development and Analysis of Pioneer Techniques for Imaging with waVES	PE1
TUYTELAARS	Tinne	Katholieke Universiteit Leuven	BE	COGNIMUND	Cognitive Image Understanding: Image representations and Multimodal learning	PE6
VAN DER WIEL	Wilfred Gerard	Universiteit Twente	NL	HI-ONE	Hybrid Inorganic-Organic NanoElectronics	PE3
VAN SPEYBROECK	Veronique	Universiteit Gent	BE	KINPOR	First principle chemical kinetics in nanoporous materials	PE4
VARELA DEL ARCO	Maria	Universidad Complutense de Madrid	ES	STEMOX	Under the light of electrons	PE3
VERDE	Licia	Consejo Superior de Investigaciones Científicas	ES	Phys.LSS	Cosmological Physics with future large-scale structure surveys	PE9
VERSTRAETE	Frank	Universität Wien	AT	QUERG	Quantum entanglement and the renormalization group	PE2
WAHL	Nathalie	Københavns Universitet	DK	2-3-AUT	Surfaces, 3-manifolds and automorphism groups	PE1
WALLRAFF	Andreas Joachim	Eidgenössische Technische Hochschule Zürich	CH	HYBRIDQED	Hybrid Cavity Quantum Electrodynamics with Atoms and Circuits	PE3
WILSON	Andrew	University of Leeds	UK	PROTEOFOLD	Proteomimetic Foldamers: Towards Future Therapeutics and Designer Enzymes	PE5
WOOKEY	James	University of Bristol	UK	CoMITAC	An integrated geoscientific study of the thermodynamics and composition of the Earth's core-mantle interface	PE10
YELIN	Dvir	Technion - Israel Institute of Technology	IL	MINT	Multiphoton Ionization Nano-Therapy	PE7

**Panel structure**

**Physical Sciences & Engineering**

- PE1 Mathematical foundations
- PE2 Fundamental constituents of matter
- PE3 Condensed matter physics
- PE4 Physical and Analytical Chemical sciences
- PE5 Materials and Synthesis
- PE6 Computer science and informatics
- PE7 Systems and communication engineering
- PE8 Products and process engineering
- PE9 Universe sciences
- PE10 Earth system science

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Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
AKERMAN	Colin	Chancellor, Masters and Scholars of the University of Oxford	UK	Active_Neurogenesis	Activity-dependent signaling in radial glial cells and their neuronal progeny	LS5
AZZALIN	Claus Maria	Eidgenössische Technische Hochschule Zürich	CH	BFTERRA	Biogenesis and Functions of Telomeric Repeat-containing RNA	LS1
BASTO	Renata	Institut Curie	FR	CentroStemCancer	Investigating the link between centrosomes, stem cells and cancer	LS3
BENN	Christine Stabell	Statens Serum Institut	DK	CHILIC	Child health intervention interactions in low-income countries	LS7
BENTIREs-ALJ	Mohamed	Novartis Forschungsstiftung, Zweigniederlassung Friedrich Miescher Institute for Biomedical Research	CH	PTPsBDC	The role of protein-tyrosine phosphatases in breast development and cancer	LS4
BRANZEI	Dana	IFOM Fondazione Istituto Firc di Oncologia Molecolare	IT	REPSUBREP	Regulatory mechanisms coordinating replication integrity and intra-S repair	LS1
CARAZO SALAS	Rafael Edgardo	Eidgenössische Technische Hochschule Zürich	CH	SYSGRO	'Systems' study of cellular growth, shape and polarity	LS2
CARLETON	Alan	Université de Genève	CH	NEUROCHEMS	From neurons to behavior: analysis of the mechanisms underlying sensory coding and plasticity in chemical senses	LS5
CARROLL	Jason Scott	Cancer Research UK	UK	ER_Partners	Chromatin Mediators of Estrogen Receptor Biology	LS4
CH'NG	QueeLim	King's College London	UK	NeuroAge	From Environment to Physiology: Neuroendocrine Circuits and Genetic Mechanisms that Modulate Ageing and Development	LS4
CHIARLE	Roberto	Dipartimento di Scienze Biomediche e Oncologia Umana	IT	LUNELY	ALK as a common target for the pathogenesis and therapy in lymphoma, lung carcinoma and neuroblastoma	LS4
CHOI	David	University College London	UK	HORAB	Source and efficacy of human olfactory ensheathing cells in the repair of brachial plexus avulsion	LS9
COHEN	Haim	Bar-Ilan University	IL	SIRAID	SIRT6 activation for countering age-related metabolic diseases	LS4
COSMA	Maria Pia	Fondazione Telethon	IT	RERE	Wnt/beta-Catenin Signalling Pathway Controls Reprogramming: The Basis Of Regeneration In Higher Vertebrates	LS3
COSSART	Rosa	Université de la Méditerranée - Aix Marseille II	FR	GABA networks	Maturation of functional cortical GABAergic microcircuits	LS5
COSTA	Rui	Fundação Calouste Gulbenkian	PT	Neurohabit	Neural mechanisms of action learning and action selection: from intent to habit	LS5
CREMER-SIXT	Sylvia Maria	Universität Regensburg	DE	SocialVaccines	Social Vaccination in Ant Colonies: from Individual Mechanisms to Society Effects	LS8
CRISTOFARI	Gael	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	RETROGENOMICS	Mechanisms of retrotransposition in humans and consequences on cancer genomic plasticity	LS1
CACERES	Mario	Universitat Autònoma de Barcelona	ES	INVVEST	Evolutionary and functional analysis of polymorphic inversions in the human genome	LS8
DE PALMA	Michele	Fondazione San Raffaele del Monte Tabor	IT	Tie2+Monocytes	Tie2-expressing monocytes: Role in tumor angiogenesis and therapeutic targeting	LS7
DEJARDIN	Jerome	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	PICHv2.0	The role of heterochromatin enzymes on the biology of their targets	LS2
DESNUES	Christelle	Centre National de la Recherche Scientifique (CNRS)	FR	PathoVirome	Viral metagenomics of human pathologies with unknown etiology	LS7
DIEZ	Stefan	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	DE	NanoTrans	Biomolecular Motor Systems: From Cellular Function to Nanotechnological Applications	LS3
ELSON	Daniel Stuart	Imperial College of Science, Technology and Medicine	UK	OPTIMISE	Optical Platform for Therapy and diagnostic Imaging in Minimally Invasive Surgical Endoscopy	LS7
FOSTER	Kevin Richard	Chancellor, Masters and Scholars of the University of Oxford	UK	InteractingMicrobes	Social Interactions in Microbes	LS8
FRANGAKIS	Achilleas	Johann Wolfgang Goethe Universitaet Frankfurt Am Main	DE	JTOMO	Study of the molecular organization of cell junctions by cryo-electron tomography	LS1
GANDON	Sylvain	Centre National de la Recherche Scientifique (CNRS)	FR	EvolEpid	Evolutionary Epidemiology of Infectious Diseases	LS8
HORNUNG	Veit	Universitätsklinikum Bonn	DE	AIM2 Inflammasome	Cytosolic recognition of foreign nucleic acids: Molecular and functional characterization of AIM2, a central player in DNA-triggered inflammasome activation	LS6
JORON	Mathieu	Centre National de la Recherche Scientifique (CNRS)	FR	MimEvol	Balancing selection and the molecular evolution of mimicry supergenes	LS8
KAESSMANN	Henrik	Universität de Lausanne	CH	SexGenTransEvolution	Sex-biased genome and transcriptome evolution in mammals	LS2
KATONA	István	Kísérleti Orvostudományi Kutatóintézet - Magyar Tudományos Akadémia	HU	BRAINCANNABINOIDS	Understanding the molecular blueprint and functional complexity of the endocannabinoid metabolome in the brain	LS5

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KIRIK	Deniz	Lunds Universitet	SE	TreatPD	Cell and gene therapy based approaches for treatment of Parkinson's disease: from models to clinics	LS5
KLAHOLZ	Bruno	Centre Européen de Recherche en Biologie et Médecine	FR	TRANSLATIONMACHIN	Integrative structure and function study of the bacterial and human protein synthesis machinery.	LS1
KLAUSBERGER	Thomas	Medizinische Universität Wien	AT	HIPPOCHRONOCIRCU	The chronocircuitry of the hippocampus during cognitive behaviour	LS5
KOPS	Geert Johannes Petrus	Universitair Medisch Centrum Utrecht	NL	KINSIGN	Guarding Genome Stability: Dynamic Control of Chromosome Segregation by Kinetochore Signalling Pathways	LS3
KURZ	Thimo Kasimir	University Of Dundee	UK	Nedd8andCRLligases	Regulation and Function of Cullin-Ring E3 ubiquitin ligases and the Nedd8 ubiquitin-like protein modification system	LS1
LASHUEL	Hilal	Ecole Polytechnique Fédérale de Lausanne	CH	Novel Tools in PD	Novel tools for real time monitoring and quantification of protein aggregation in Parkinson's disease and related neurodegenerative disorders	LS5
LEHTONEN	Sanna	Helsingin Yliopisto	FI	DiaDrug	Insulin resistance and diabetic nephropathy - development of novel in vivo models for drug discovery	LS9
LENNON-DUMENIL	Ana-Maria	Institut Curie	FR	STRAPACEMI	Spatio-temporal regulation of antigen presentation and cell migration	LS6
LICKERT	Heiko	Helmholtz Zentrum Muenchen Deutsches Forschungszentrum Fuer Gesundheit Und Umwel GMBH	DE	CiliaryDisease	Deciphering mechanisms of ciliary disease	LS3
LISBY	Michael	Københavns Universitet	DK	DeFact	DNA repair factories - how cells do biochemistry	LS1
LOPEZ-BENDITO	Guillermina Eloisa	Consejo Superior de Investigaciones Científicas	ES	RECORTHA	RECORTHA: Rewiring cortical areas through thalamocortical inputs	LS5
LOUDET	Olivier	Institut National de la Recherche Agronomique	FR	DECODE	Decoding the complexity of quantitative natural variation in Arabidopsis thaliana	LS2
LUYSSAERT	Sebastiaan	Laboratoire des Sciences du Climat et l'Environnement (LSCE)	FR	DOFOCO	Do forests cool the Earth? Reconciling sustained productivity and minimum climate response with portfolios of contrasting forest management strategies	LS9
MAESTRE GIL	Fernando Tomás	Universidad Rey Juan Carlos	ES	BIOCOM	Biotic community attributes and ecosystem functioning: implications for predicting and mitigating global change impacts	LS8
MANLEY	Suliana	Ecole Polytechnique Fédérale de Lausanne	CH	PALMassembly	Protein assembly: From the molecular scale to the mesoscale with super-resolution imaging	LS1
MAURICE	Madelon Maria	Universitair Medisch Centrum Utrecht	NL	MechWNTsignals	Mechanisms of Wnt Signaling Initiation	LS3
MCGREGOR	Alistair	Veterinärmedizinischen Universität Wien	AT	ESED	Evolution of sensory organ morphology: genetic analysis of eye size evolution in Drosophila	LS3
MEDALIA	Ohad	Ben-Gurion University of the Negev	IL	INCEL	Revealing the molecular architecture of integrin mediated cell adhesion	LS1
MEISTER	Gunter	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	DE	srnas	Small non-coding RNAs in cell function and disease	LS1
MICHAELIS	Jens	Ludwig-Maximilians-Universität München	DE	REMODELLING	ATP dependent nucleosome remodelling - Single molecule studies and super-resolution microscopy	LS1
MIRASTSCHUJSKI	Ursula	Medizinische Hochschule Hannover	DE	wound contraction	Keratinocytes and Matrix metalloproteinases: driving force of skin wound contraction?	LS9
MORILLON	Antonin	Centre National de la Recherche Scientifique (CNRS)	FR	EPIncrNA	Epigenetic and genome stability: non coding RNA-mediated chromatin modifications in S. cerevisiae	LS2
NAHMIA	Yaakov	Hebrew University of Jerusalem	IL	TMIHCV	Microfabrication-Based Rational Design of Transcriptional-Metabolic Intervention for the Treatment of Hepatitis C Virus (HCV) Infection	LS9
O'DOHERTY	John	Provost Fellows and Scholars of the College of the Holy and Undivided Trinity of Queen Elisabeth Near Dublin	IE	RLpharmfMRI	Beyond dopamine: Characterizing the computational functions of midbrain modulatory neurotransmitter systems in human reinforcement learning using model-based pharmacological fMRI	LS5
PAN HAMMARSTRÖM	Qiang	Karolinska Institutet	SE	ImmunoSwitch	Switch recombination: a model system for DNA editing and repair in human lymphocytes with relevance for primary immunodeficiency and cancer formation	LS6
PANOUSAKOPOULOU	Vily (Vassiliki)	Biomedical Research Foundation, Academy of Athens	EL	Opn-immunoregulation	Immune mechanisms of osteopontin-mediated protection in allergic airway disease	LS6
PERI	Francesca	Europäisches Laboratorium für Molekularbiologie	DE	FPMICROGLIA	Towards a dynamic quantitative understanding of neuronal microglial interactions	LS3
PRIETO	Maria-Pilar	Instituto de Agricultura Sostenible - Consejo Superior de Investigaciones Científicas	ES	swcd	Development of super-wheat crops by introgressing agronomic traits from related wild species	LS9
SALEH	Maria-Carla	Institut Pasteur	FR	AntiviralRNAi	RNAi-mediated viral immunity in insects	LS6
SANDBERG	Rickard	Karolinska Institutet	SE	Single-cell Genomics	Single-cell Gene Regulation in Differentiation and Pluripotency	LS2

**ERC Starting Grant 2009 - First results - LIFE SCIENCES**

**List of projects invited for funding (alphabetical order)**

**UPDATED 29/ 10/ 2009**

Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
SCHEENEN	Tom	Radboud Universiteit Nijmegen - Stichting Katholieke Universiteit	NL	EXACTA	Exploring the aggressiveness of prostate cancer to enable an individualised treatment approach	LS7
SCHNEIDER	Matthias	Universität Augsburg	DE	NanoBlood	A physical understanding of blood clotting and clotting disease New Concepts and Technologies	LS9
SCHRÖDER	Leif	Forschungsverbund Berlin e.V.	DE	BiosensorImaging	Hyperpolarized Biosensors in Molecular Imaging	LS7
SONG	Bing	University Court Of The University Of Aberdeen	UK	SciNscEF	Repair Spinal Cord Injury by Controlling Migration of Neural Stem Cells - multidisciplinary approaches of electric stimulation and nanotechnology	LS7
SONVEAUX	Pierre	Université Catholique de Louvain	BE	TUMETABO	Glycolytic contribution to cancer growth and metastasis	LS4
SPAGNOLI	Francesca M.	Max-Delbrück-Centrum für Molekulare Medizin	DE	HEPATOPANCREATIC	Mechanisms Underlying Cell Fate Decision Between Pancreas And Liver	LS7
STARK	Alexander	Forschungsinstitut Fuer Molekulare Pathologie Ges.m.b.H	AT	Regulatory Genomics	Regulatory Genomics in Drosophila	LS2
STROUS	Marc	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V.	DE	MASEM	Making Sense of Metagenomes	LS8
SUMBRE	German	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	Zebrafish Perception	Sensory perception: neural representation and modulation	LS5
SUMPTER	David	Uppsala Universitet	SE	ID-CAB	Individual differences in Collective Animal Behaviour	LS8
TEOTONIO	Henrique	Fundacao Calouste Gulbenkian	PT	EXPTEVOLCELEGANS	A study on the interaction among natural selection, mutation and recombination, with Caenorhabditis elegans experimental evolution	LS8
TREPAT GUIXER	Xavier	Universitat de Barcelona	ES	GenesForceMotion	Physical Forces Driving Collective Cell Migration: from Genes to Mechanism	LS3
VAN DEN BRINK	Gijs	Academisch Ziekenhuis Leiden - Leids Universitair Medisch Centrum	NL	Morphostasis	Morphostasis of the intestinal mucosa and it's deregulation in cancer and inflammation	LS4
VERSTREPEN	Kevin J.	VIB	BE	RepeatsAsMutators	The biological role of tandem repeats as hypervariable modules in genomes	LS2
VIGNUZZI	Marco	Institut Pasteur	FR	RNAvirusPopDivNVax	RNA virus population diversity, virulence, attenuation and vaccine development	LS6
VOEHRINGER	David	Ludwig-Maximilians-University Munich	DE	PAS	Persistence of allergic sensitization	LS6
VON MERING	Christian	Universität Zürich	CH	UMICIS	Uncultivated Microbes In Situ - a Computational Biology Approach to Determine Molecular Capabilities and Ecological Roles	LS2
WIGGE	Philip Anthony	John Innes Centre	UK	TEMPEST	Temperature perception and signal transduction in plants	LS3
ZUIDEMA	Pieter Alle	Universiteit Utrecht	NL	TROFOCLIM	Tropical forests and climate change: understanding links to predict future responses	LS8

**Panel structure**

**Life Sciences**

LS1 Molecular and Structural Biology and Biochemistry

LS2 Genetics, Genomics, Bioinformatics and Systems Biology

LS3 Cellular and Developmental Biology

LS4 Physiology, Pathophysiology and Endocrinology

LS5 Neurosciences and neural disorders

LS6 Immunity and infection

LS7 Diagnostic tools, therapies and public health

LS8 Evolutionary, population and environmental biology

LS9 Applied life sciences and biotechnology

**ERC Starting Grant 2009 - First results - SOCIAL SCIENCES and HUMANITIES**

**List of invited projects (in alphabetical order)**

**UPDATED 29/ 10/ 2009**

Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
ABU SHARKH	Miriam	Humboldt-Universität zu Berlin	DE	GloGender	Global Governance and Gender Disparities. Explaining Developments in Key Labor related Human Rights Indicators	SH2
ALBERNI	Anna	Universitat De Girona	ES	The Last Song	The Last Song of the Troubadours: Linguistic Codification and Construction of a Literary Canon in the Crown of Aragon (14th and 15th centuries)	SH5
ALGAN	Yann	Fondation Nationale des Sciences Politiques	FR	TRUST	Culture, Cooperation and Economics	SH2
BENIGNO	Pierpaolo	LUISS Libera Università Internazionale degli Studi Sociali Guido Carli	IT	MACROMOD	New Issues in Macro Modeling	SH1
BOSETTI	Valentina	Fondazione Eni Enrico Mattei	IT	ICARUS	Innovation for Climate chAnge mitigation: a study of energy R&d, its Uncertain effectiveness and Spillovers	SH3
BREMNER	Andrew J.	Goldsmiths' College	UK	HEMSDEV	Human Embodied MultiSensory Development: An investigation of the construction of embodied multisensory experience in human infancy and early childhood	SH4
BREMS	Eva	Universiteit Gent	BE	ECHR	Strengthening the European Court of Human Rights: More Accountability Through Better Legal Reasoning	SH2
BRUTER	Michael	London School of Economics and Political Science	UK	INMIVO	Inside the mind of a voter - Memory, Identity, and Electoral Psychology	SH2
BURLE	Boris	Centre National de la Recherche Scientifique (CNRS)	FR	ProReCont	Pro- and Re-active cognitive control	SH4
CANUDAS ROMO	Vladimir	Københavns Universitet	DK	LongevityByCause	Cause of Death Contribution to Longevity: Modeling Time Trends	SH3
CASARI	Marco	Alma Mater Studiorum-Universita di Bologna	IT	STRANGERS	Cooperation among strangers: experiments with social norms, institutions, and money	SH1
CIJSOUW	Michael Alexander	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e. V.	DE	QuantHistLing	Quantitative modeling of historical-comparative linguistics: Unraveling the phylogeny of native South American languages	SH4
COLOMBETTI	Giovanna	University of Exeter	UK	EMOTER	Emoting the Embodied Mind	SH4
DE HAAS	Hein Gysbert	Chancellor, Masters and Scholars of the University Of Oxford	UK	DEMIG	The determinants of international migration: A theoretical and empirical assessment of policy, origin and destination effects	SH3
DE MOOR	Martina	Universiteit Utrecht	NL	UnitedWeStand	The dynamics and consequences of institutions for collective action in pre-industrial Europe	SH6
DEGRYSE	Patrick	Katholieke Universiteit Leuven	BE	ARCHGLASS	Archaeometry and Archaeology of Ancient Glass Production as a Source for Ancient Technology and Trade of Raw Materials	SH6
ENFIELD	Nicholas James	Max Planck Institute for Psycholinguistics	NL	HSSLU	Human Sociality and Systems of Language Use	SH4
ESTEVE PALÓS	Albert	Centre d'Estudis Demogràfics	ES	WORLD FAM	Towards a Unified Analysis of World Population: Family Patterns in Multilevel Perspective	SH3
GANCIA	Gino	Centre de Recerca en Economia Internacional (CREI)	ES	GOPG	Globalization, Optimal Policies and Growth	SH1
GARNER	Natalia	Collegium Civitas	PL	PGPE	Public Goods through Private Eyes. Exploring Citizens' Attitudes to Public Goods and the State in Central Eastern Europe	SH2
GENNAIOLI	Nicola	Centre de Recerca en Economia Internacional (CREI)	ES	Inst&Glob	Institutions and Globalization	SH1



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**List of invited projects (in alphabetical order)**

**UPDATED 29/ 10/ 2009**

Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
GERWARTH	Robert Benjamin	University College Dublin - National University of Ireland, Dublin	IE	LIMOD	The Limits of Demobilization, 1917-1923: Paramilitary Violence in Europe and the Wider World	SH6
GIGLIONI	Guido	University Of London	UK	MOM	The medicine of the mind and natural philosophy in early modern England: A new interpretation of Francis Bacon	SH6
KEESE	Alexander	Centro de Estudos Africanos da Universidade do Porto	PT	ForcedLabourAfrica	Forced labour: an Afro-European heritage in sub-Saharan Africa (1930-1975)?	SH6
KNAFO	Ariel	Hebrew University of Jerusalem	IL	FromChildToParent	From the Child's Genes to Parental Environment and Back to the Child: Gene-environment Correlations in Early Social Development	SH4
KUIPERS	Giselinde Maniouchka Marije	Universiteit van Amsterdam	NL	BEAUTY	Towards a comparative sociology of beauty: The transnational modelling industry and the social shaping of beauty standards in six European countries	SH2
LEE	Sokbae	University College London	UK	ROMETA	Research on Microeconometrics: Econometric Theory and Applications	SH1
LINNEBO	Øystein	University of Bristol	UK	PPP	Plurals, Predicates, and Paradox: Towards a Type-Free Account	SH4
MAHLKE	Kirsten	Universität Konstanz	DE	NoT	Narratives of Terror and Disappearance. Fantastic Dimensions of Argentina's Collective Memory since the Military Dictatorship	SH5
MÄLKSOO	Lauri	Tartu University	EE	INTLAWRUSSIA	International Law and Non-liberal States: The Doctrine and Application of International Law in the Russian Federation	SH2
MESMAN	Judit	Universiteit Leiden	NL	Boys will be boys?	Boys will be boys? Gender differences in the socialization of disruptive behaviour in early childhood	SH4
NOSNITSIN	Denis	Universität Hamburg	DE	ETHIO-SPARE	Cultural Heritage of Christian Ethiopia: Salvation, Preservation and Research	SH5
OVERGAARD	Morten	Regionshospitalet Hammel Neurocenter	DK	MindRehab	Consciousness In basic Science And Neurorehabilitation	SH4
OZYUREK-HAGOORT	Asli	Radboud Universiteit Nijmegen - Stichting Katholieke Universiteit	NL	Language in our hand	Language in our hand: The role of modality in shaping spatial language development in deaf and hearing children	SH4
PURANAM	Phanish	London Business School	UK	ORGDESIGN	The Foundation of Organization Design	SH1
QUANDT	Thorsten	Universität Hohenheim	DE	SOFOGA	The social fabric of virtual life: A longitudinal multi-method study on the social foundations of online gaming	SH2
RANOCCHIA	Graziano	Consiglio Nazionale delle Ricerche	IT	PHerc	Interactive edition and interpretation of various works by Stoic and Epicurean philosophers surviving at Herculaneum	SH5
RUBIO-RAMIREZ	Juan	Centro de Estudios Monetarios y Financieros	ES	EDSGEL	Likelihood-based estimation of non-linear and non-normal DSGE models	SH1
SCHILTZ	Michael	Katholieke Universiteit Leuven	BE	JapanGreatDepression	'Dead End': An Economic and Cultural History of Japan in the Age of the Great Depression, 1927-1937	SH6
SKIRBEKK	Vegard	Internationales Institut für Angewandte Systemanalyse	AT	COHORT	The demography of skills and beliefs in Europe with a focus on cohort change	SH3
SZENTES	Balazs	University College London	UK	EATP	Evolutionary Approaches Towards Preferences	SH1
TENREYRO	Silvana	London School of Economics and Political Science	UK	fluctuations	Research on Economic Fluctuations and Globalization	SH1

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**List of invited projects (in alphabetical order)**

**UPDATED 29/ 10/ 2009**

Last Name	First Name	Host Institution	Host Country	Acronym	Project Title	Panel
TERVIÖ	Marko Juhani	Helsingin Kauppakorkeakoulu	FI	TLIM	Talent and Learning in Imperfect Markets	SH1
TURATI	Chiara	Università degli Studi di Milano-Bicocca	IT	ODMIR	The origins and development of the human mirror neuron system	SH4
TURCHETTI	Simone	University Of Manchester	UK	TEUS	The Earth Under Surveillance. Climate Change, Geophysics and the Cold War Legacy	SH2
VAN BIESEBROECK	Johannes	Katholieke Universiteit Leuven	BE	CHINA	Trade, Productivity, and Firm Capabilities in China's Manufacturing Sector	SH1
VAN STEENBERGEN	Jo	Universiteit Gent	BE	MMS	The Mamlukisation of the Mamluk Sultanate. Political Traditions and State Formation in 15th century Egypt and Syria	SH6
VON JAGOW	Bettina	Ludwig-Maximilians-Universität München	DE	JewCom	History of European-Jewish Communication in the 20th Century	SH5
WAERZEGGERS	Caroline	Vereniging Voor Christelijk Hoger Onderwijs Wetenschappelijk Onderzoek En Patiëntenzorg	NL	Babylon	By the Rivers of Babylon: New Perspectives on Second Temple Judaism from Cuneiform Texts	SH6
WASTELL	Sari	Goldsmiths' College	UK	BBSG	Bosnian Bones, Spanish Ghosts: 'Transitional Justice' and the Legal Shaping of Memory after Two Modern Conflicts	SH2
WEDDIGEN	Tristan	Universität Zürich	CH	TEXTILE	An Iconology of the Textile in Art and Architecture	SH5

**Panel structure**

**Social Sciences and Humanities**

- SH1 Individuals, institutions and markets
- SH2 Institutions, values, beliefs and behaviour
- SH3 Environment and society
- SH4 The Human Mind and its complexity
- SH5 Cultures and cultural production
- SH6 The study of the human past