

**ERC Advanced Grants 2009 - Updated results (May 2010) -  
- LIFE SCIENCES -  
List of projects invited for funding (alphabetical order)**

Last name	First name	Host Institution	HI Country	Acronym	Project Title	Panel
AGUZZI	Adriano	Universität Zürich	CH	Prions	The prion protein in health and disease	LS5
ALMOUZNI - PETTINOTTI	Geneviève	Institut Curie	FR	Eccentric	Epigenetic challenges in centromere inheritance during the cell cycle	LS1
ALON	Uri	Weizmann Institute of Science	IL	DEPICT	Design principles and controllability of protein circuits	LS2
AMILS	Ricardo	Instituto Nacional de Tecnología Aeronáutica	ES	IPBSL	Science and technology development for in situ detection and characterization of subsurface life on the Iberian Pyritic Belt	LS8
ANTONARAKIS	Stylianos	Université de Genève	CH	HuCNC	Conserved Non-Coding Sequences; function, variability and phenotypic consequences	LS2
ARBER	Silvia	Novartis Forschungsstiftung, Zweigniederlassung Friedrich Miescher Institute for Biomedical Research	CH	Motor Circuits	Neuronal circuits controlling motor behavior	LS5
ATTWELL	David	University College London	UK	BrainPower	Brain energy supply and the consequences of its failure	LS5
BACH	Jean-François	Institut National de la Santé et de la Recherche Médicale (INSERM)	FR	HYGIENE	The HYGIENE Hypothesis: Revisiting the Concept by Integrating Epidemiology and Mechanistic Studies	LS7
BALLABIO	Andrea	Fondazione Telethon	IT	CLEAR	Modulating cellular clearance to cure human disease	LS2
BAN	Nenad	Eidgenössische Technische Hochschule Zürich	CH	Eukaryotic Ribosome	Structural studies of the eukaryotic ribosome by X-ray crystallography	LS1
BARBACID	Mariano	Fundación Centro Nacional de Investigaciones Oncológicas Carlos III	ES	RAS AHEAD	Ras Genes in Health and Disease	LS4
BARRAL	Yves	Eidgenössische Technische Hochschule Zürich	CH	BarrAge	Cell compartmentalization, individuation and diversity	LS3
BARTON	Nicholas Hamilton	Institute of Science and Technology Austria	AT	SelectionInformation	Limits to selection in biology and in evolutionary computation	LS8
BASELGA	Jose	Fundacio Privada Institut d'Investigacio Oncologica de Vall Hebron	ES	OVER-HER2	OVERcoming Resistance to anti-HER2 therapy	LS4
BENKIRANE	Monsef	Centre National de la Recherche Scientifique (CNRS)	FR	Silent HIV	Paving the way toward HIV eradication/control	LS6
BERNARDS	Rene	Stichting Het Nederlands Kanker Instituut	NL	FUNCTIONAL GENOMICS	Dissecting Genetic Dependencies in Cancer	LS2
BICKMORE	Wendy	Medical Research Council	UK	FunctionalEdge	Determining the roles of the nuclear periphery in mammalian genome function	LS2
BRAKEFIELD	Paul Martin	Universiteit Leiden	NL	EMARES	Exploring Morphospaces in Adaptive Radiations to unravel Ecological Speciation	LS8
BRITCH	Christine	University of Newcastle Upon Tyne	UK	Oncogenomics	Development of high throughput in vivo oncogenomic screening strategies in acute leukaemia	LS7
BROWN	Alistair James Petersen	The University Court of the University of Aberdeen	UK	STRIFE	Spatial and temporal regulation of the fungus-host interaction during life-threatening fungal infections	LS6
CAO	Yihai	Karolinska Institutet	SE	ANGIOFAT	New mechanisms of angiogenesis modulators in switching between white and brown adipose tissues	LS4
CARLIER	Marie-France	Centre National de la Recherche Scientifique (CNRS)	FR	forcefulactin	Coordinated regulation of actin dynamics in cell motility and morphogenesis : from molecules to reconstituted biomimetic assays	LS1
CHMEISSANI	Mokhtar	Institut de Física d'Altes Energies	ES	VIP	Voxel Imaging PET Pathfinder	LS7
COOPER	Julia	Cancer Research UK	UK	Telomeres in meiosis	Telomere function in meiosis	LS2
COULSON	Timothy Neal	Imperial College of Science, Technology and Medicine	UK	LEED	Linking ecological and evolutionary dynamics in theory, in the lab and in the field	LS8
COUVREUR	Patrick	Université Paris-Sud XI	FR	TERNANOMED	TERPENYLATION: An original concept for the discovery of new nanomedicines	LS7
DE VOS	Willem Meindert	Wageningen Universiteit	NL	MICROBESINSIDE	Exploitation of Our Intestinal Microbiota	LS9
DEHAENE	Stanislas	Commissariat à l'Energie Atomique (CEA)	FR	NEUROCONSC	Converging Criteria for Consciousness: Using neuroimaging methods to characterize subliminal and conscious processing	LS5
DIFFLEY	John	Cancer Research UK	UK	EUKDNAREP	The Initiation of Eukaryotic DNA Replication: Mechanism, Regulation and Role in Genome Stability	LS1
DIKIC	Ivan	Johann Wolfgang Goethe Universität Frankfurt am Main	DE	LineUb	Linear ubiquitin chains - novel cellular signals involved in inflammation and cancer	LS1
DOLAN	Liam	The Chancellor, Masters and Scholars of the University of Oxford	UK	EVO500	Origin of a cell differentiation mechanism and its evolution over 500 million years of life on land	LS3

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DUBINSKY	Zvy	Bar Ilan University	IL	CoralWarm	Corals and global warming: The Mediterranean versus the Red Sea	LS8
EATON	Suzanne	Max Planck Gesellschaft zur Förderung der Wissenschaften e.V.	DE	wing morphogenesis	A physical basis for wing morphogenesis and planar cell polarity	LS3
ELLEGREN	Hans	Uppsala Universitet	SE	NextGenMolEcol	Next Generation Molecular Ecology	LS8
ERRINGTON	Jeff	University of Newcastle Upon Tyne	UK	OPAL	Origins, proliferation and pathogenesis of L-form (cell wall deficient) bacteria	LS6
FISCHER	Alain	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	PIDIMMUN	Primary immunodeficiency diseases as models for the study of the immune system	LS6
FREITAS	Antonio	Institut Pasteur	FR	QSIG	Role of Quorum Sensing mechanisms in the Immune System's regulation	LS6
GIACCA	Mauro	International Centre for Genetic Engineering and Biotechnology	IT	FunSel	Generation of AAV-based, arrayed genetic libraries for in vivo functional selection: an innovative approach to identify secreted factors and microRNAs against degenerative	LS7
GIRAULT	Jean-Antoine	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	SMILE	Study of the molecular and cellular mechanisms of incentive learning	LS5
GROENEN	Martien	Wageningen Universiteit	NL	SeISweep	Molecular characterization of genetic factors in the pig under selection during speciation, domestication and breeding	LS9
GROSSNIKLAS	Ueli	Universität Zürich	CH	MEDEA	Mechanisms of Epigenetic regulation in Development, Evolution and Adaptation	LS2
GUALLAR	Victor	Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC-CNS)	ES	PELE	P.E.L.E (Protein Energy Landscape Exploration): a la carte drug design tools	LS7
GUIDOTTI	Luca G.	Fondazione Centro San Raffaele del Monte Tabor	IT	Liver IVM and HBV	Imaging liver immunopathology by intravital microscopy (IVM): a new approach to study the pathogenesis of hepatitis B virus (HBV) infection.	LS6
HAUSSER	Michael	University College London	UK	DENDRITE	Cellular and circuit determinants of dendritic computation	LS5
HEARD	Edith	Institut Curie	FR	EpigenetiX	Epigenetic regulation and monoallelic gene expression: the X-inactivation paradigm and beyond	LS2
HEDRICH	Rainer	Julius-Maximilians Universität Würzburg	DE	Carnivorom	Molecular basis of carnivory: Excitability, movement, and endocrinology of plant traps	LS9
HENGGE	Regine	Freie Universität Berlin	DE	SecMessBiofilm	Cyclic-di-GMP: New Concepts in Second Messenger Signaling and Bacterial Biofilm Formation	LS6
HOFMANN	Klaus Peter	Charité - Universitätsmedizin Berlin	DE	TUDOR	Towards Understanding the Structure and Dynamics of Receptor Proteins	LS1
HOUSTON	Alasdair Iain	University of Bristol	UK	Evomech	The evolution of mechanisms that control behaviour	LS8
HUTTNER	Wieland B.	Max Planck Gesellschaft zur Förderung der Wissenschaften e.V.	DE	NeuroMan	Identifying the genes responsible for the expansion of the human cerebral cortex	LS5
KELLER	Laurent	Université de Lausanne	CH	social life	The evolution of social life and division of labour	LS8
KELLER	Beat	Universität Zürich	CH	Durablereistance	Durable resistance against fungal plant pathogens	LS9
KLARESKOG	Lars	Karolinska Institutet	SE	PreventRA	Genes, environment and immunity in the pathogenesis of rheumatoid arthritis	LS7
KNOBLICH	Jürgen	Institut für Molekulare Biotechnologie GmbH	AT	NeuroSyStem	A Systems Level Approach to Proliferation and Differentiation Control in Neural Stem Cell Lineages	LS3
KOECHLIN	Etienne	Ecole Normale Supérieure	FR	FRONTEX	Decision-making and prefrontal executive function	LS5
LANZAVECCHIA	Antonio	Fondazione per l'Istituto di Ricerca in Biomedicina	CH	IMMUNExplore	New approaches to analyze and exploit the human B and T cell response against viruses	LS6
LEIGH	Irene May	University of Dundee	UK	TreatSkin	Tissue engineering to evaluate novel treatments for skin cancer and genetic disease	LS7
LEVITZKI	Alexander	The Hebrew University of Jerusalem	IL	targeting_cancer	Eradication of tumors by targeting dsRNA selectively to cancer cells and recruitment of the innate immune system	LS7
MAGURRAN	Anne	The University Court of the University of St Andrews	UK	BioTIME	Biological diversity in an inconstant world: temporal turnover in modified ecosystems	LS8
MAINEN	Zachary	Fundação Calouste Gulbenkian	PT	5HT-OPTOGENETICS	Optogenetic Analysis of Serotonin Function in the Mammalian Brain	LS5
MARTINEZ ARIAS	Alfonso	The Chancellor, Masters and Scholars of the University of Cambridge	UK	MOFDH	Molecular origin and function of dynamic heterogeneities in mouse ES cells and pre-implantation embryos	LS3
MOMBAERTS	Peter	Max Planck Gesellschaft zur Förderung der Wissenschaften e.V.	DE	ORGENECHOICE	Regulation of the expression of odorant receptor genes in mouse	LS5
MONYER	Hannah	Universitätsklinikum Heidelberg	DE	GABAcellsAndMemory	Linking GABAergic neurones to hippocampal-entorhinal system functions	LS5

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NALDINI	Luigi	Università Vita-Salute San Raffaele	IT	TARGETINGGENETHERAPY	Towards Safe and Effective Hematopoietic Stem Cell Gene Therapy: Targeting Integration to Genomic Safe Harbors and Exploiting Endogenous microRNA to Regulate Transgene	LS7
NEEFJES	Jacques	Netherlands Cancer Institute	NL	MHC Class II-omics	Towards understanding and manipulation of MHC class II antigen presentation	LS6
NIEHRS	Christof	Deutsches Krebsforschungszentrum	DE	DNA demethylase	Functions and mechanism of active DNA demethylation	LS3
NISSEN	Poul	Aarhus Universitet	DK	BIOMEMOS	Higher order structure and function of biomembranes	LS1
OSTERHAUS	Albert D. M. E.	Erasmus Universitair Medisch Centrum Rotterdam	NL	FLUPLAN	Novel strategies to combat future influenza pandemics	LS7
PALMER	Ed	Universitätsspital Basel	CH	TerraIncognita	T cell receptor $\alpha\beta$ : in control of signal initiation and T cell fate	LS6
PEMBERTON	Josephine Mary	The University of Edinburgh	UK	WEG	Wild Evolutionary Genomics	LS8
PODOLEANU	Adrian	University of Kent at Canterbury	UK	COGATIMABIO	Combined time domain and spectral domain coherence gating for imaging and biosensing	LS7
PONTING	Christopher Paul	Medical Research Council	UK	DARCGENs	Derived and Ancestral RNAs: Comparative Genomics and Evolution of ncRNAs	LS2
POURQUIE	Olivier	Centre Européen de Recherche en Biologie et Médecine	FR	BODYBUILT	Building The Vertebrate Body	LS3
REICHHART	Jean-Marc	Centre National de la Recherche Scientifique (CNRS)	FR	IMMUDROSO	Sensing and Signalling in the Innate Immune Response, using Drosophila as a Model.	LS6
RIZZOLATTI	Giacomo	Università degli Studi di Parma	IT	Cogsystems	Understanding actions and intentions of others	LS5
ROSENMUND	Christian	Charité - Universitätsmedizin Berlin	DE	SYNVLUT	Vesicular glutamate transporters as molecular regulators of neural communication	LS5
SCHERF	Artur	Centre National de la Recherche Scientifique (CNRS)	FR	PlasmoEscape	Monoallelic Gene Expression in Malaria Parasites: A Key Mechanisms in the Pathogen's Survival Strategy	LS6
SCHIBLER	Ulrich	Université de Genève	CH	TimeSignal	Signalling within the mammalian circadian timing system	LS1
SHELDON	Benjamin Conrad	The Chancellor, Masters and Scholars of the University of Oxford	UK	SOCECOL	Evolutionary Social Ecology in Wild Populations	LS8
SIXMA	Titia	Stichting Het Nederlands Kanker Instituut	NL	Ubiquitin balance	The balance of ubiquitin conjugation and deconjugation	LS1
SPECTOR	Tim David	King's College London	UK	EpiTwin	The role of epigenetic factors in the aetiology of common complex diseases using twins	LS9
STERN	Claudio Daniel	University College London	UK	GEMELLI	Gene networks controlling embryonic polarity, regulation and twinning	LS3
STEWART	Paul	The University of Birmingham	UK	PRECORT	Pre-receptor cortisol metabolism and human ageing	LS4
STOFFEL	Markus	Eidgenössische Technische Hochschule Zürich	CH	MetaboloMirs	Elucidation of MicroRNAs as Regulators of Metabolism and Targets for Therapeutic Intervention	LS4
SUPERTI-FURGA	Giulio	CEMM - Forschungszentrum für Molekulare Medizin GmbH	AT	i-FIVE	Interferon-focused Innate Immunity Interactome and Inhibitome	LS2
THINGSTAD	Tron Frede	Universitetet I Bergen	NO	MINOS	Microbial Network Organisation	LS8
UHLMANN	Frank	Cancer Research UK	UK	ChromoCond	A molecular view of chromosome condensation	LS3
VON MUTIUS	Erika	Ludwig-Maximilians-Universität München	DE	HERA	Host-environment interactions in the protection from asthma and allergies	LS7
WEBER	Christian	Universitätsklinikum Aachen	DE	Atheroprotect	Structure-Function Analysis of the Chemokine Interactome for Therapeutic Targeting and Imaging in Atherosclerosis	LS4
WEILL	Jean-Claude	Institut National de la Santé et de la Recherche Médicale (Inserm)	FR	Memo-B	The B cell memory program: cell fate determinants and functional diversity of B cell subsets	LS6
WEST	Stephen	Cancer Research UK	UK	DNArepair	Defects in DNA strand break repair and links to inheritable disease	LS1
YLA-HERTTUALA	Seppo	University of Kuopio	FI	FutureGenes	Gene transfer techniques in the treatment of cardiovascular diseases and malignant glioma	LS7
ZEILHOFER	Hanns Ulrich	Universität Zürich	CH	DHISP	Dorsal Horn Interneurons in Sensory Processing	LS5

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**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