European Research Council

ERC Advanced Grants 2008 - LIFE SCIENCES

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Rank	Title	First name	Name	Host institution	Host country	Acronym	Project title	Panel
	Prof.	Rudolf	Aebersold	Eidgenoessische Technische Hochschule Zurich	CH	PROTEOMICS v3.0	Proteomics v3.0: Development, Implementation and Dissemination of a Third Generation Proteomics Technology	LS2
	Prof.	Per Erik	Ahlberg	Uppsala University	SE	Bone Scan	Traces in the bones: reconstructing the lost soft anatomy of the earliest vertebrates through ultra-high resolution synchrotron scanning.	LS8
	Prof.	Diego Sebastian	Amigorena	Institut Curie	FR	PhagoDC	Integrative phagosomal biology: antigen presentation and developmental programs in dendritic cells	LS6
	Prof.	Johan Henri	Auwerx	Ecole Polytechnique Fédérale de Lausanne	CH	Sirtuins	Phenogenomics of sirtuin corepressor family	LS4
	Prof.	Hilmar	Bading	Ruprecht-Karls Universität Heidelberg	DE	Nuclear Calcium	The biology of nuclear calcium: general principles of adaptations and strategies to develop a light-induced signaling enhancer	LS5
	Prof.	Naama	Barkai	Weizmann institute of science	IL	VarB	Variability and Robustness in Bio-molecular systems	LS2
	Prof.	Konrad	Basler	University of Zurich	CH	Drosophilasignaling	Signaling Pathways Controlling Patterning, Growth and Final Size of Drosophila Limbs	LS3
	Prof.	David	Baulcombe	Chancellor, Masters and Scholars of the University of Cambridge	UK	REVOLUTION	RNA silencing in regulation and evolution	LS2
	Dr.	Maria A.	Blasco	Centro Nacional Investigaciones Oncologicas	ES	TEL STEM CELL	From telomere chromatin to stem cell biology	LS1
	Prof.	Michael	Brecht	Humboldt-Universität zu Berlin	DE	Neuro-behavior	From Neuron to Behavior	LS5
	Prof.	Matteo	Carandini	University College London	UK	CORTEX	Computations by Neurons and Populations in Visual Cortex	LS5
	Prof.	Felice	Cervone	Università di Roma Sapienza	IT	FUEL-PATH	Exploiting the saccharification potential of pathogenic microorganisms to improve biofuel production from plants.	LS9
	Prof.	Reinhart J.M.	Ceulemans	Universiteit Antwerpen	BE	POPFULL	System analysis of a bio-energy plantation: full greenhouse gas balance and energy accounting	LS9
	Dr.	Daniel	Choquet	Centre National de la Recherche Scientifique	FR	Nano-Dyn-Syn	Nano-Scale Organization Dynamics and Functions of Synapses: from single molecule tracking to the physiopathology of excitatory synaptic transmission	LS5
	Prof.	Paul	Christou	Universitat de Lleida	ES	BIOFORCE	Simultaneous multi-pathway engineering in crop plants through combinatorial genetic transformation: Creating nutritionally biofortified cereal grains for food security	LS9
	Prof.	Johannes Carolus	Clevers	Koninklijke Nederlandse Akademie van Wetenschappen - KNAW	NL	StemCellMark	LGR receptors mark adult stem cells in multiple mammalian tissues	LS3
	Prof.	Pascale	Cossart	Institut Pasteur	FR	MODELIST	Understanding the infection by the bacterium Listeria monocytogenes as a way to address key issues in biology	LS6
	Dr.	François-Loic	Cosset	Institut National de la Santé et de la Recherche Médicale	FR	HEPCENT	Molecular Analysis of Hepatitis C Virus Neutralization and Entry For the Development of Novel Antiviral Immunopreventive Strategies	LS7
	Prof.	Giulio	Cossu	Fondazione Centro San Raffaele del Monte Tabor	IT	Stem cells for DMD	Novel strategies for the cell therapy of muscular dystrophies	LS7
	Prof.	Caroline	Dean	John Innes Centre	UK	ENVGENE	Dissection of environmentally-mediated epigenetic silencing	LS2
	Dr.	Barry	Dickson	Forschungsinstiut fuer molekulare Pathologie GmbH	AT	Fru circuit	Neural basis of Drosophila mating behaviours	LS5
	Prof.	Stefanie	Dimmeler	Johann Wolfgang Goethe - Universitaet Frankfurt am Main	DE	ANGIOMIRS	microRNAs in vascular homeostasis	LS4
	Prof.	Denis	Duboule	Ecole Polytechnique Federale de Lausanne	CH	SystemsHox.ch	A System Approach to Hox Genes Regulation in Vertebrates	LS3
	Prof.	Jean-Marc	Egly	Groupement d'Intérêt Economique - Centre Européen de Recherche en Biologie	FR	TransReAct	TFIIH as a crucial actor in genome expression and repair	LS1
	Prof.	John	Endler	University of Exeter	UK	SensoryEvolution	Using Sensory Biology and Environmental Conditions to Predict the direction of Evolution	LS8
	Prof.	Patrik	Ernfors	Karolinska Institutet	SE	STEMRENEWAL	Identification of a new mechanism of stem cell self-renewal; direct implications on self-repair and tumor initiating cells in the brain	LS5
	Dr.	Nicolas	Galtier	Centre National de la Recherche Scientifique	FR	PopPhyl	Population phylogenomics: linking molecular evolution to species biology	LS8
	Prof.	Pierre	Gönczy	Ecole Polytechnique Fédérale de Lausanne	CH	CENDUP	Decoding the mechanisms of centrosome duplication	LS3
	Prof.	Christian	Griesinger	Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V.	DE	hiddentimeNMR	NMR detected nanosecond to microsecond dynamics for biomolecular recognition dynamics	LS1
	Prof.	Piet	Gros	Universiteit Utrecht	NL	COCO	The molecular complexity of the complement system	LS1
	Prof.	Ingrid	Grummt	Deutsches Krebsforschungszentrum	DE	Ribogenes	The role of noncoding RNA in sense and antisense or orientation in epigenetic control of rRNA genes	LS2
	Prof.	Ilkka Aulis	Hanski	Helsingin yliopisto	FI	Spatialdynamics	Ecological, molecular, and evolutionary spatial dynamics	LS8
	Prof.	Ari	Helenius	Eidgenössische Technische Hochschule Zurich	CH	ViRNA	Cellular biology of virus infection	LS6
	Prof.	Jeremy Martin	Henley	University of Bristol	UK	SUMOBRAIN	Mechanisms and consequences of synaptic SUMOylation in health and disease	LS5
	Prof.	Jürgen	Hennig	Universitätsklinikum Freiburg für die Medizinische Fakultät der Albert-Ludw	DE	OVOC	Ultra Fast Magnetic Resonance Imaging using One-Voxel-One-Coil Acquisition	LS7
	Prof.	Jan Hendrik Jozef	Hoeijmakers	Erasmus University Medical Center	NL	DamAge	DNA damage and the connection with cancer, premature aging and longevity	LS1
	Prof.	Carlos	Ibanez	Karolinska Institutet	SE	ALK7	Metabolic control by the TGF-² superfamily receptor ALK7: A novel regulator of insulin secretion, fat accumulation and energy balance	LS4
	Prof.	Howard Trevor	Jacobs	University of Tampere	FI	MITO BY-PASS	Molecular by-pass therapy for mitochondrial dysfunction	LS4
	Prof.	Michael Silvester Maria	Jetten	Stichting Katholieke Universiteit - Radboud University	NL	anammox	Anaerobic ammonium oxidizing bacteria: unique prokayotes with exceptional properties	LS8
	Prof.	Sebastian Lennox	Johnston	Imperial College London	UK	MoRIAE	Human and mouse models of rhinovirus induced acute asthma exacerbations	LS4

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	Prof.	Jonathan	Jones	Sainsbury Laboratory	UK	ALBUGON	Genomics and effectoromics to understand defence suppression and disease resistance in Arabidopsis-Albugo candida interactions	LS6
	Prof.	George	Kordas	National Center for Scientific Research Demokritos	EL	NANOTHERAPY	A Novel Nano-container drug carrier for targeted treatment of prostate cancer	LS7
	Prof.	Dimitri Michael	Kullmann	University College London	UK	InterPlasticity	Long-term synaptic plasticity in interneurons: mechanisms and computational significance	LS5
	Prof.	Kevin Neville	Laland	University Court of the University of St Andrews	UK	EVOCULTURE	The Evolution of Culture	LS8
	Prof.	Thomas	Langer	University of Cologne	DE	Mitoscaffold	Mitochondrial membrane organization by protein scaffolds and lipid dynamics	LS3
	Prof.	Bruno	Lemaitre	Ecole Polytechnique de Lausanne	CH	GutDroso	Gut immunity and homeostasis in Drosophila	LS6
	Prof.	Joachim	Lingner	Ecole Polytechnique Fédérale de Lausanne	CH	TERRA	Telomeric Repeat Containing RNA: Biogenesis, Composition and Function	LS1
	Prof.	Michael	Lisanti	IGBMC (Institute of Genetics and Mol Biol of the Cell)	FR	CAPER_BREAST CANCE	CAPER in Invasive Breast Cancer	LS7
	Prof.	Martin	Lohse	Julius-Maximilians-Universität Würzburg	DE	TOPAS	Towards the Quantal Nature of Receptor/cAMP Signals	LS7
	Prof.	Eiliv	Lund	Universitetet i Tomsø	NO	TICE	Transcriptomics in Cancer Epidemiology	LS7
	Prof.	Alberto	Mantovani	Humanitas Mirasole SpA	IT	HIIS	The humoral innate immune system: long pentraxins as a paradigm	LS6
	Prof.	William	Martin	Heinrich-Heine Universität Düsseldorf	DE	NETWORKORIGINS	A biological and chemical network approach to the study of biochemical origins, early cellular evolution, and gene distributions across genomes	LS8
	Prof.	Andreas	Mayer	Université de Lausanne	CH	ORGANELL	Organelle homeostasis:	LS3
	Prof.	Nicholas	Mazarakis	Imperial College London	UK	IRLVGTMND	Improved retrograde lentiviral vectors for gene therapy in motor neuron diseases	LS7
	Prof.	Frank Daniel	McKeon	Université Louis Pasteur	FR	INFLAMMATORICS	Novel Mechanisms of Airway Inflammation	LS6
	Mr.	Marcel	Mechali	Centre National de Recherche Scientifique	FR	ORICODE	Unraveling the code of DNA replication origins and its link with cell identity	LS1
	Prof.	Søren Kragh	Moestrup	Aarhus Universitet	DK	TROJA	Targeting Receptors Of Jointly Assembled Ligand-Drug Constructs	LS7
	Prof.	Edvard Ingjald	Moser	Norwegian University of Science and Technology	NO	CIRCUIT	Neural circuits for space representation in the mammalian cortex	LS5
	Dr.	Andrea	Musacchio	Istituto Europeo di Oncologia Srl	IT	KINCON	Molecular bases of kinetochore-microtubule attachment and their implications for cell cycle control.	LS1
	Prof.	Michal	Neeman	Weizmann Institute of Science	IL	IMAGO	Imaging regulatory pathways of angiogenesis	LS7
	Prof.	Vasilis	Ntziachristos	Technische Universitaet Muenchen	DE	MSOT	MSOT: Next Generation in-vivo imaging platform for post-genome biology and medicine	LS7
	Prof.	Bernhard Örn	Palsson	University of Iceland (Haskoli Islands)	IS	SYSTEM_Us	Systems Biology of Human Metabolism	LS2
	Prof.	Päivi	Peltomäki	Helsingin yliopisto	FI	Episusceptibility	Epigenome and Cancer Susceptibility	LS7
	Prof.	Josef Martin	Penninger	Institut fuer Molekulare Biotechnolgie GmbH	AT	COMBINE	From flies to humans combining whole genome screens and tissue specific gene targeting to identify novel pathways involved in cancer and metastases	LS4
	Prof.	Benedita	Rocha	National Institut for Health and Medical Research	FR	CD8 T Cells	Development and differentiation of CD8 T lymphocytes	LS6
	Prof.	Philippe	Sansonetti	Institut Pasteur	FR	HOMEOEPITH	Homeostasis and rupture of the gut epithelium in the presence of commensals and pathogens	LS6
	Dr.	Vincent	Savolainen	Imperial College of Science, Technology and Medicine	UK	OriGene	Understanding the Origin of Species: Ecological Genomics and Transcriptomics on Oceanic Islands	LS8
	Prof.	Ben J.G.	Scheres	Utrecht University	NL	SysArc	Systems Biology to understand Plant Architecture	LS3
	Prof.	Michael David	Schneider	Imperial College London	UK	CADRE	Cardiac Death and Regeneration	LS4
	Prof.	Christopher Joseph	Schofield	Chancellor, Masters and Scholars of the University of Oxford	UK	MOOSE	Molecular Mechanism of Oxygen Sensing by Enzymes	LS1
	Prof.	Michal	Schwartz	Weizmann Institute of Science	IL	Immune_memory aging	Can immune system rejuvenation restore age-related memory loss?	LS5
	Prof.	Luis	Serrano	Fundació Privada Centre de Regulació Genòmica	ES	CellDoctor	Quantitative understanding of a living system and its engineering as a cellular organelle	LS2
	Dr.	Manuel	Serrano	Centro Nacional Investigaciones Oncologicas	ES	CANCER&AGEING	Commom mechanisms underlying cancer and ageing	LS1
	Prof.	Ehud	Shapiro	Weizmann Institute of Science	IL	Biomolecular_comp	Biomolecular computers	LS9
	Dr.	Brigitta	Stockinger	Medical Research Council	UK	AhRimmunity	The influence of Aryl hydrocarbon receptor ligands on protective and pathological immune responses	LS6
	Prof.	Jussi	Taipale	National Public Health Institute	FI	GrowthControl	Dissecting the transcriptional mechanisms controlling growth during normal development and cancer	LS2
	Dr.	Alan	Tunnacliffe	Chancellor, Masters and Scholars of the University of Cambridge	UK	DRYLIFE	Surviving the dry state: engineering a desiccation-tolerant mammalian cell	LS9
	Prof.	Michael David	Tyers	University of Edinburgh	UK	SCG	Systematic Chemical Genetic Interrogation of Biological Networks	LS2
	Prof.	Fritz	Vollrath	Chancellor, Masters and Scholars of the University of Oxford	UK	SABIP	Silks as Biomimetic Ideals for Polymers: SABIP	LS9
	Prof.	Gunnar	von Heijne	Stockholms Universitet	SE	MEMFOLD	New approaches to the study of membrane-protein folding in vivo and in silico	LS1
	Prof.	Erwin F.	Wagner	Fundación Centro Nacional de Investigaciones Oncológicas Carlos III	ES	AP-1-Fun	AP-1 (Fos/Jun) Functions in Physiology and Disease	LS4
	Prof.	Stuart	West	University of Edinburgh	UK	Cooperation	Evolutionary explanations for cooperation: microbes to humans	LS8
	Dr.	Thorsten	Wiegand	Helmholtz - Zentrum für Umweltforschung GmbH - UFZ	DE	SPATIODIVERSITY	Towards a Unified Spatial Theory of Biodiversity	LS8
	Prof.	Juleen Rae	Zierath	Karolinska Institutet	SE	ICEBERG	Discovery of Type 2 Diabetes Targets	LS4
85	Prof.	Harald Alfred	Stenmark	University of Oslo	NO	PI3K-III complex	The PI3K-III complex: Function in cell regulation and tumour suppression	LS3
86	Prof.	Hans-Reimer	Rodewald	Universität Ulm (University of Ulm)	DE	Mast-cell-functions	Genetically defined and selectively mast cell-deficient mouse model to unravel the immunological roles of mast cells	LS6

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87	Dr.	Giacomo	Cavalli	Centre National de la Recherche Scientifique	FR	FlyingPolycomb	Polycomb in development, genome regulation and cancer	LS2
88	Prof.	Mart	Saarma	Helsingin yliopisto	FI	CDNFPark	Biology and therapeutic potential of a novel family of neurotrophic factors	LS5
89	Prof.	Kari Kustaa	Alitalo	Helsingin yliopisto	FI	B-COR	Novel biological functions and therapeutic potential of vascular endothelial growth factor-b	LS3
90	Prof.	Greet	Van den Berghe	Katholieke Universiteit Leuven	BE	EMOF	Endocrine and metabolic aspects of organ failure in critical illness: perspectives for prevention and therapy	LS4