

**EUROPEAN
SCIENCE
FOUNDATION**
SETTING SCIENCE AGENDAS FOR EUROPE

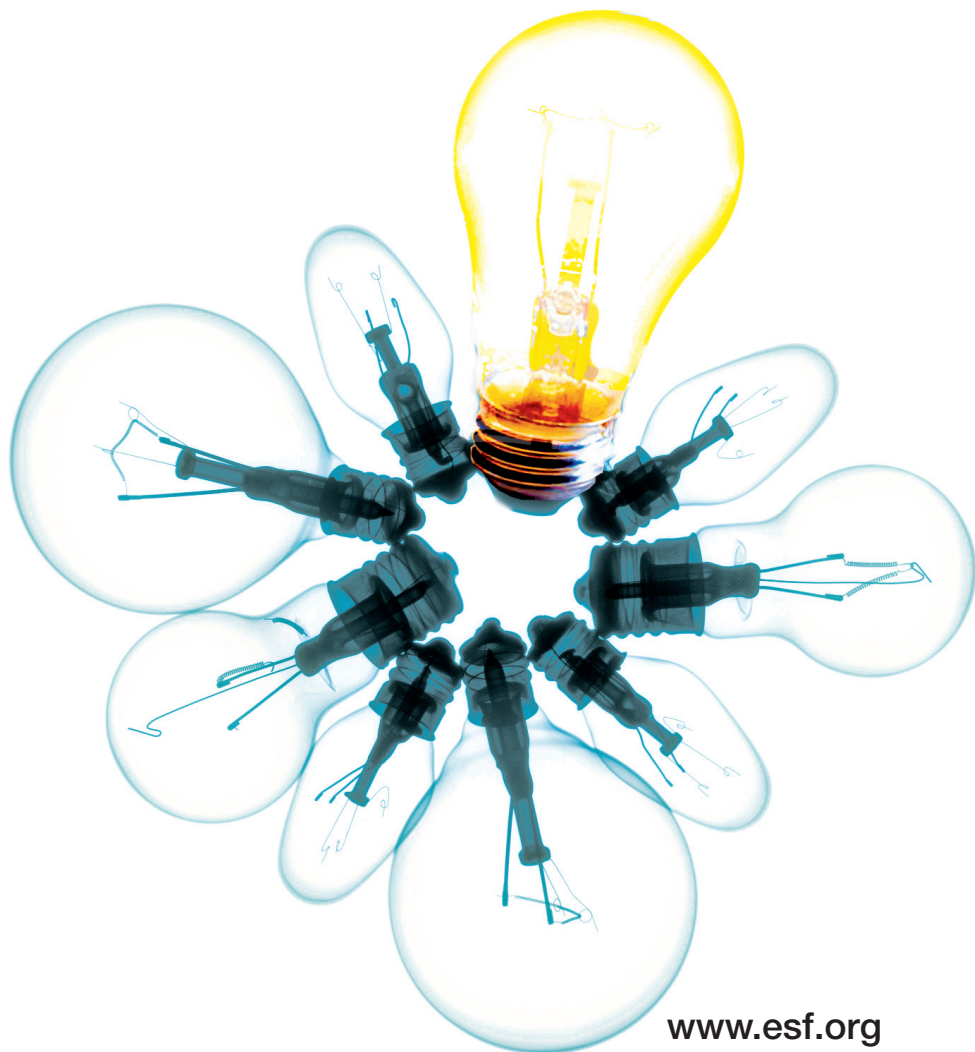
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★ **EUROHORCs**
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EURYI

European Young Investigator Awards (EURYI)

EURYI 4TH Call for Applications

OPENS 1ST SEPTEMBER 2006 –
CLOSES 30TH NOVEMBER 2006



www.esf.org

In 2003, the European Heads of Research Councils (EuroHORCs), wishing to contribute to the building of the European Research Area, joined together, in collaboration with the European Science Foundation (ESF), to create the European Young Investigator (EURYI) Awards. The aim of EURYI Awards is to attract outstanding young researchers, from all over the world, to work in Europe for the further development of European science, contributing to the building up of the next generation of leading European researchers.

EURYI Awards, normally held for 5 years, promote scientific excellence, with wide international recognition, by supporting these distinguished researchers to develop and pursue an independent research career, including developing a research group where appropriate. The funding available will support research aimed at opening up new lines of research including novel methodologies.

The EURYI Awards scheme was launched in September 2003 with the first annual call for proposals. The first 25 awards were made in 2004, a second group of 25 in 2005, and a third group of 25 in July 2006 as a result of the third call. The fourth annual call for proposals is being launched on 1st September 2006 with Participating Organisations from 15 countries.

Applicant eligibility

Open to researchers from anywhere in the world who are between 2 and 8 years after receiving their PhD at the closing date of the call, taking into account career breaks.

Applicants for EURYI Awards are expected to have an excellent research record and to show the potential to become world-class leaders in their areas of research. The selection criteria for EURYI Awards are

- the research quality and potential of the applicant,
- the originality as well as the groundbreaking character of the research proposal and its feasibility,
- the potential of the applicant and the proposed research programme to improve the position of European research at world level.

Key Award characteristics

- Award holders are expected to devote their full working time to research and activities related to the proposal.
- The award will last for a 5 year period, subject to satisfactory progress.
- The total value of an award will normally be no less than k€ 750 over 5 years and shall not exceed a maximum of k€ 1250.
- Awards must be held at a host institution in a country participating in the EURYI Award scheme.

Applications

Applications are submitted to the Participating Organisation of the country where the award will be held. Assessment of applications is undertaken in two stages, firstly at national level and then at European level. The European Science Foundation manages the European phase of the review process and coordinates the funding.

Applicants are strongly advised to check with the relevant Participating Organisation for any local conditions or deadlines.

Participating Organisations of the 4th Call

- **Fonds zur Förderung der wissenschaftlichen Forschung in Österreich (FWF)**
Austrian Science Fund, Austria
- **Grantová agentura České republiky (GAČR)**
Czech Science Foundation, Czech Republic
- **Suomen Akatemia/Finlands Akademi**
Academy of Finland, Finland
- **Centre National de la Recherche Scientifique (CNRS)**
National Centre for Scientific Research, France
- **Institut National de la Santé et de la Recherche Médicale (INSERM)**
National Institute for Health and Medical Research, France
- **Deutsche Forschungsgemeinschaft (DFG)**
German Research Foundation, Germany
- **EONIKO ΙΑΡΥΜΑ ΕΡΕΥΝΩΝ (NHRF)**
National Hellenic Research Foundation, Greece
- **Országos Tudományos Kutatási Alapprogramok (OTKA)**
Hungarian Scientific Research Fund, Hungary
- **Consiglio Nazionale delle Ricerche (CNR)**
National Research Council, Italy
- **Istituto Nazionale di Fisica Nucleare (INFN)**
National Institute for Nuclear Physics, Italy
- **Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO)**
Netherlands Organisation for Scientific Research, Netherlands
- **Fundacja na rzecz Nauki Polskiej (FNP)**
Foundation for Polish Science, Poland
- **Fundação para a Ciência e a Tecnologia (FCT)**
Foundation for Science and Technology, Portugal
- **Consejo Superior de Investigaciones Científicas (CSIC)**
Council for Scientific Research, Spain
- **Vetenskapsrådet (VR)**
Swedish Research Council, Sweden
- **Schweizerischer Nationalfonds (SNF)**
Swiss National Science Foundation, Switzerland
- **Türkiye Bilimsel ve Teknolojik Araştırma Kurumu (TÜBİTAK)**
The Scientific and Technological Research Council of Turkey, Turkey

The work of the European Science Foundation in implementing and coordinating the EURYI Award scheme is supported by funds from the European Commission's Sixth Framework Programme under Contract n°. ERAC-CT-2003-510191

Awardees 2004

Reuven AGAMI

Genome wide search for DNA damage checkpoint functions in human cells.

Andrius BALTUSKA

Towards nonlinear time-resolved spectroscopy with attosecond X-ray pulses.

Sjef BARBIERS

European dialect syntax.

Jordi BASCOMPTE

Networks on plant-animal interactions: the architecture of biodiversity.

Mihail-Dumitru BARBOIU

Dynamic adaptative materials for separation and sensing microsystems.

Svetlana BERDYUGINA

Molecules in magnetized solar and stellar Atmospheres.

Adriano CAMPS CARMONA

Passive advanced unit (PAU): A hybrid L-band radiometer, GNSS-reflectometer and IR-radiometer for passive remote sensing of the ocean.

Andrea CAVALLERI

Femtosecond time-resolved x-ray studies of critical phenomena in strongly correlated materials.

Raffaele COLOMBELLI

Towards nano-photonics: quantum cascade photonic crystal surface-emitting lasers and normal-incidence detectors.

Jens EISERT

Multi-particle entanglement in critical and distributed quantum systems.

Monika HENZINGER

Efficient algorithms for the World Wide Web.

Zsuzsanna IZSVAK

Sleeping Beauty transposition: biology and applications in vertebrates.

Etienne Paul KOECHLIN

Executive control and the functional organisation of the human prefrontal cortex.

Oscar MARIN

Genetics of cortical interneuron development: modelling interneuron function in health and disease.

Maria MOTA

The role of host cell factors in the full development of the malaria parasite inside hepatocytes.

Thomas MUSSWEILER

Psychological relativity - comparison processes in judgement, behaviour and affect.

Brian O'NEILL

Demography, uncertainty and learning in integrated assessment models of climate change.

Francesc POSAS

Function and regulation of SAPK signalling pathways in eukaryotic cells.

Miguel Angel DEL POZO

Role of Caveolin-1 in the regulation of membrane microdomain trafficking, intergrain signaling, and tumour suppression.

Alexey RAK

Rab proteins & their partners: towards a comprehensive structural model of the role of GTPases in vesicular transport.

Jacob REICHEL

Integrated quantum devices: atomic Bose-Einstein condensates on nanofabricated chips.

Albertus SCHENNING

Supramolecular electronics by oligonucleotide templated self-assembly of pi-conjugated oligomers.

Ole SIGMUND

Synthesis and topology optimization of optomechanical systems.

Bas VAN STEENSEL

Whole genome analysis of the regulation of chromatin structure and gene expression.

Nikolaos TAGMATARCHIS

Functionalisation of carbon nanotubes encapsulating novel carbon-based materials.

Awardees 2005

Matthew ALBERT

Apoptotic cell death and immunity.

Dario ALFÈ

Quantum Monte Carlo techniques for planetary geophysics and heterogeneous catalysis.

Adrian BACHTOLD

Quantum probes based on carbon nanotubes.

Matthew BATE

The formulation of stars and planets: radiation hydrodynamical and magnetohydrodynamical simulations.

Ilka BRUNNER

D-branes in curved backgrounds.

Snorre CHRISTIANSEN

Numerical analysis of simulation of geometric wave equations.

Edwin CUPPEN

Exploiting natural and induced genetic variation in the laboratory rat.

Valentina EMILIANI-SIRTORI

Wave-front engineered microscopy for the investigation of signal emission in neurons and glial cells.

Daniel GERLICH

A systems biology approach to mitosis.

Igor GORNYI

Quantum transport in nanostructures.

Yrjö HELARIUTTA

Molecular basis of cambial development using underlying tree growth.

Casper HOOGENRAAD

Regulation of glutamate receptors during plasticity and learning.

Andrei KHLOBYSTOV

Non-covalent assembly of functional nanostructures.

Bernard KNAEPEN

Modelling and simulation of turbulent conductive flows in the limit of low magnetic Reynolds number.

Susana MARCOS CELESTINO

Physical and technological approaches to the understanding and correction of myopia and presbyopia.

Patrick MERALDI

Functional and proteomics-based analyses of human kinetochores.

Angelos MICHAELIDES

Unravelling the mysteries of the water-solid interface with statistical mechanics and ab initio simulations.

Zoltan NUSSER

Sensory information processing: understanding the neuronal representation of odours.

Lucas PELKMANS

Systems analysis of caveolae- and lipid raft-mediated endocytosis in multicellular physiology.

Pasquale PISTONE

The impact of European law on the relations with third countries in the field.

Robert TER HAAR ROMENY

Identity and migration: Christian minorities in the Middle East and in diaspora.

Archana SINGH-MANOUX

Determinants of health inequalities in ageing populations: evidence from the French Gazel and British Whitehall-II cohort studies.

Stephen SMARTT

The lives of massive stars from birth to supernova.

François TADDEI

Causes and consequences of natural patterns of phenotypic variability, aging and death in cellular lineages.

Päivi TORMA

Nanoscale quantum systems interacting with fields: ultracold gases and molecular electronics.

Awardees 2006

André ALEMAN

Insight in psychosis: new insights from cognitive neuropsychiatry.

Déborah BOURC'HIS

Genomic and functional analysis of genomic imprinting.

Örjan Christer CARLBORG

Understanding the biology of multifactorial traits – unique animal models and novel bioinformatics tools lead the way.

Massimiliano CAVALLINI

Dynamics of molecules on organic transistors.

Ove CHRISTIANSEN

Quantum Molecular Dynamics.

Mirjam ERNESTUS

Acoustic reduction in European languages.

Pascal FRIES

Mechanisms of neuronal interactions and their cognitive top-down control.

Francesca FUNICIELLO

Convergent margins and seismogenesis: defining the risk of great earthquakes by using statistical data and modelling

Frédéric GEISSMANN

Differentiation and functions of cells of the mononuclear phagocyte system.

Nicolas GOMPEL

An integrative analysis of the mechanisms of phenotypic novelty: form and behaviour evolution in flies.

Jesper GRODAL

Homotopical group theory – the mathematics of symmetry and deformation.

Klaus HALLATSCHEK

Zonal flows.

Joost HOENDEROP

Regulation of the epithelial Ca²⁺ channel by extracellular calciotropic factors.

Frank KEPPLER

Origin, fate and impact of biospheric climate-relevant trace gases during global change.

Dieter Chichung LIE

Regulation of quiescence in adult hippocampal neural stem cells.

Nicolas MANO

A miniature membrane-less biofuel cell operating under physiological conditions.

Paloma MAS

Understanding the biological clock in *Arabidopsis thaliana*: global approaches to study mechanisms of clock function.

Juha Kalevi PAKKALA

Birth and transmission of a Holy Tradition.

Christos PANAGOPOULOS

Emergent complexity in electronically frustrated correlated electron systems.

Ulrich PFEIFFER

Terahertz imaging arrays using metamaterial integrated components.

Anna QVARNSTROM

Speciation and evolution in hybrid zones.

Arno RAUSCHENBEUTEL

Glass Fibre Quantum Optics.

Gábor TAMAS

Novel roles for identified GABAergic neurons in networks of the cerebral cortex.

Manuel TORILLHON

Multi-physics scientific computing.

Willem VAN WESTRENEN

Full Moon: novel constraints on the origin and evolution of the lunar interior and the early Earth.

For more information on the EURYI scheme, calls for applications, guidance for applications, terms of award and the projects of EURYI awardees, visit www.esf.org/euryi

European Science Foundation

The European Science Foundation (ESF) provides a platform for its Member Organisations to advance European research and explore new directions for research at the European level.

Established in 1974 as an independent non-governmental organisation, the ESF currently serves 78 Member Organisations across 30 countries.

EuroHORCs

EuroHORCs (European Heads of Research Councils) is the association of the Heads of public national research and research funding organisations in Europe.

EuroHORCs seek to enhance the role of the national research and research funding organisations in Europe through creating a platform for discussion, initiating joint activities and strengthening their influence on European research policy.



1 quai Lezay-Marnésia | BP 90015
67080 Strasbourg cedex | France
Tel: +33 (0)3 88 76 71 00 | Fax: +33 (0)3 88 37 05 32
www.esf.org

c/o NWO | 300 Laan van Nieuw Oost Indië
PO Box 93138 | 2509 AC The Hague | Netherlands
Tel: +31 (0)70 344 0525 | Fax: +31 (0)70 344 0819
www.eurohorcs.org