

A sample of Research financed between 2008 and 2011

Because **Science has no boundaries**, the AXA Research Fund finances 220 research teams across the world, whose topics cover the whole Earth.



Do you want to know more?
www.axa-research.org



AXA
Research Fund

Through research protection

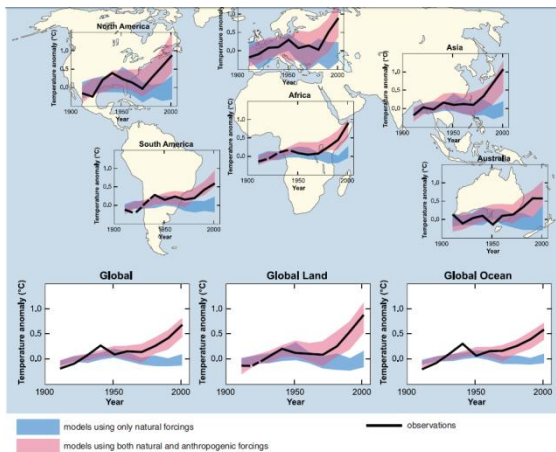
Why is it important for an insurer to support science now?

To understand reality and the future of risks, we need to:

- Promote reason against historical consensus:
the past will not explain the future anymore, even with some parameter adjustments
> Scientists role is to challenge and build new models
- Take scientific progress and unsolved questions in the public debate:
build a social consensus to implement scientific progress in the public debate
> For Scientists to make and share progress, we have to be supportive and attentive.

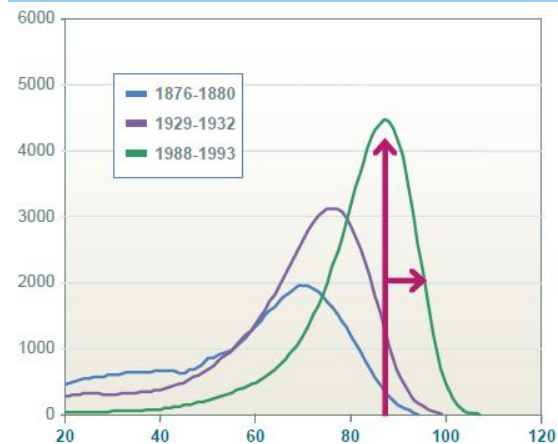
Environmental risks

Model the influence of human activity on climate change



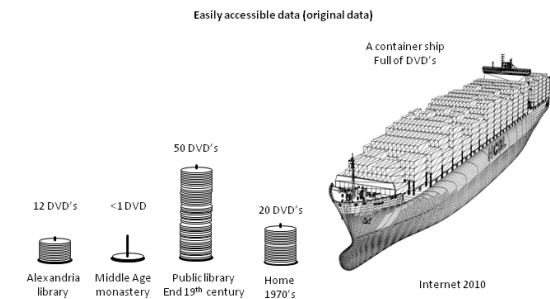
Life risks

Prevent new threats on human life notably due to population ageing



Socio-economic risks

Accessible data: from rarity to plenty



Through research, protection

n Protecting its clients and the community from risks is at the core of AXA's purpose

n Researching today will help better protecting tomorrow

n The AXA Research Fund will boost scientific progress and discoveries that contribute to understand and prevent environmental, life and societal risks.



Which fields do we support?

One global objective:
foster the understanding of major risks
in 3 main fields

Identifying
Mitigation/Prevention
Solutions

Understanding Causes
and Underlying
Phenomena

Environmental risks

Climate Change

Natural Hazards

Human driven
Environmental
Changes

Life risks

Aging and Long-term
Care

Biomedical Risks

Addictions
and Risky Behaviors

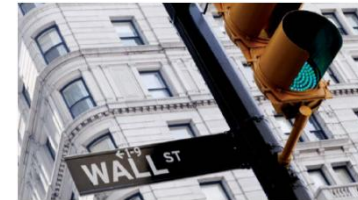
Socio-economic risks

Geopolitical Risks

Macroeconomic Risks

Behaviors Towards
Risks

Large Corporate Risks



Assessing the Social
and/or Economic Impact

Measuring and Modeling
the Risk

Identifying the
Mechanisms at stake



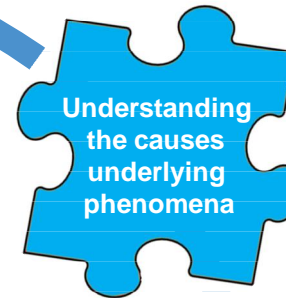
Progressively completing the knowledge puzzle: The Example of longevity



MATTHEW TYE

Ph.D. "Increasing Longevity in Vietnam: Strategies for Long-Term Care - the Intergenerational Contract"

University of Oxford



GUIDO KROEMER

Principal Investigator of the AXA project "Promises of autophagy"

Gustave Roussy Institute, France



ALEJANDRO DEL VALLE SUAREZ

Ph.D "Essays on Welfare and Social Protection, The Impact of Universal Health Insurance on Welfare: Evidence from Mexico's Seguro Popular"

Paris School of Economics



CAROL JAGGER

Chairholder AXA Newcastle Chair on Longevity and Healthy Active Life
University of Newcastle, UK



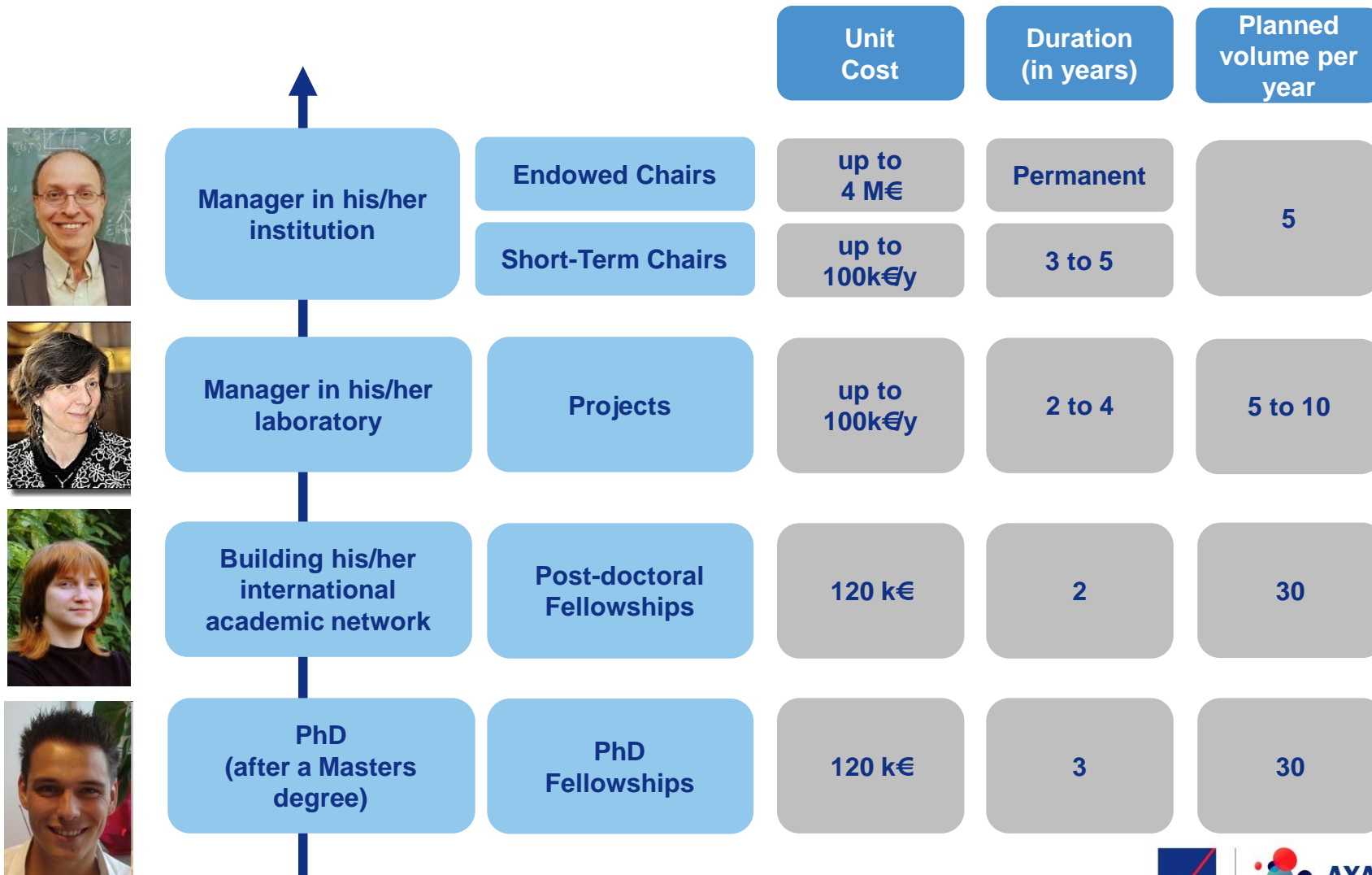
TADDEI/KIRKWOOD/PATRIDGE/VAUPEL

Chair "A systems approach to individual differences in longevity"

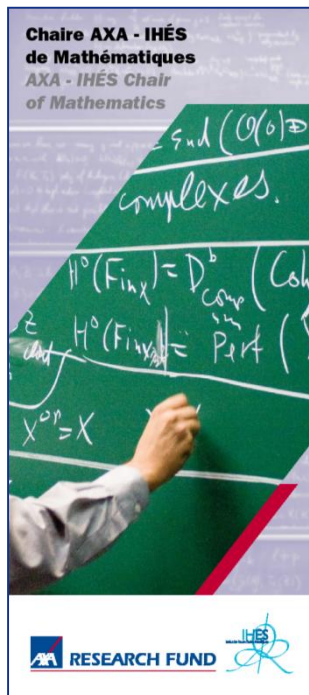
Université Paris Descartes



AXA RF supports scientists on their all career path



Key figures



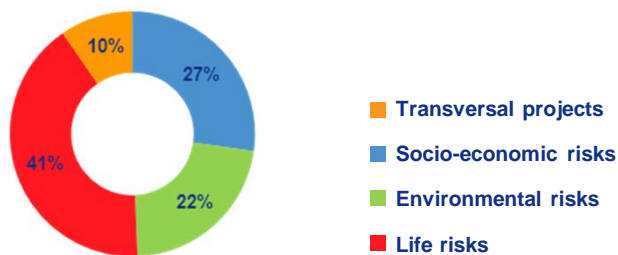
- n Created in **January 2008**
- n **79 M€** committed
- n **3271 applications** received since Jan 2008
- n **291 projects** funded
- n **43 nationalities** of researchers, working in **24 countries**
- n **A dynamic research community:** 1000 active referees, 1250 people gathered around **15 major events**

Key figures at a glance

as of May 15th, 2012

Budget

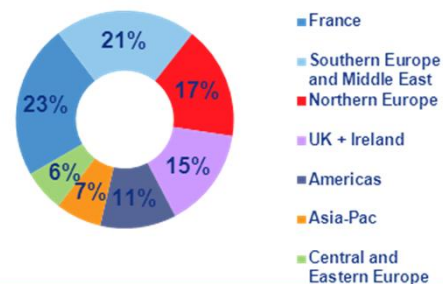
n €79M* committed spread as follows:



Applications

n 3.271 applications received since March 2008
> with a global selection rate of 11%

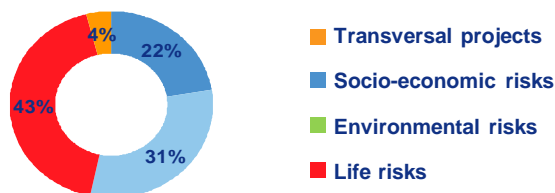
n 855 institutions registered in 55 countries



Projects funded

n 43 nationalities of researchers granted in 24 countries

n 291 projects granted (157 institutions) spread as follows:



A dynamic research community

n +1000 active referees working in 36 countries

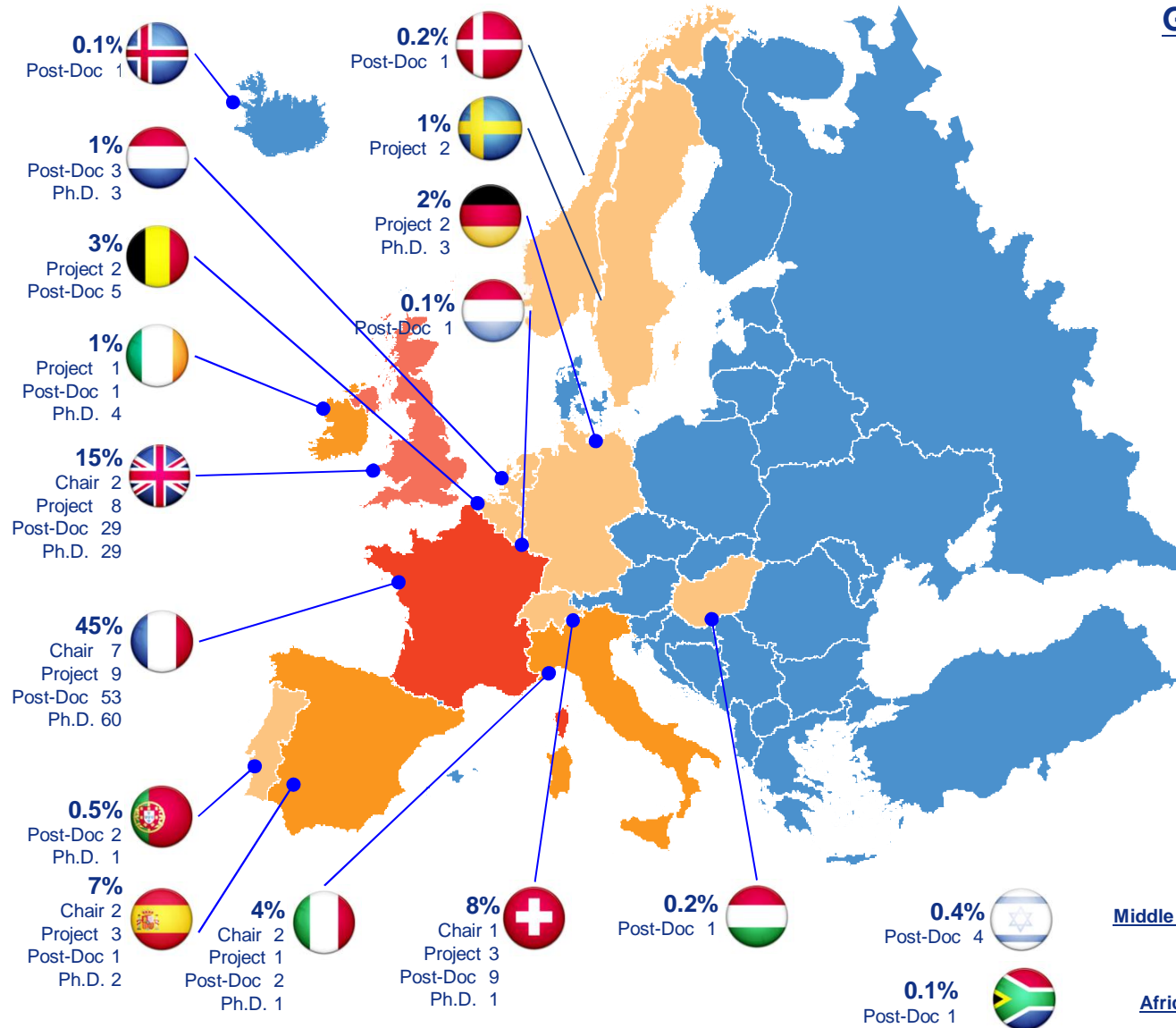
n AXA Research Fund events:

- | 5 Talent Days
- | 2 Pop Days
- | 6 official opening ceremonies for the AXA chairs or projects

*operations included

Grantees to date

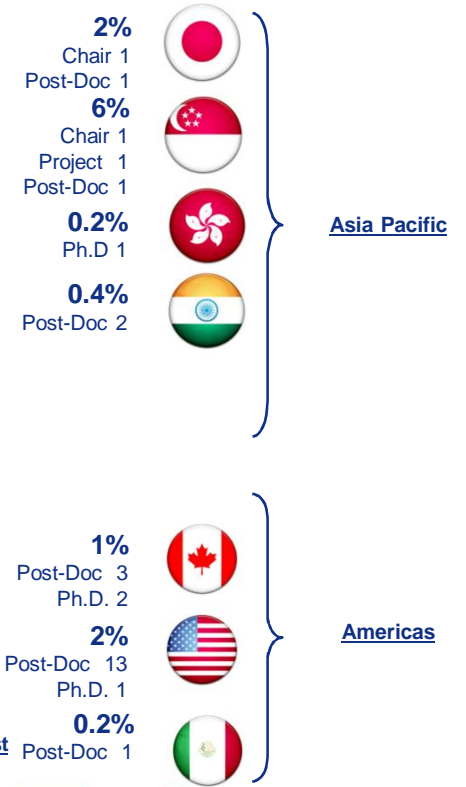
Amounts allocated per country of host institution
As of May 15, 2012



GLOBAL FIGURES TO DATE:

- ü 16 Chairs
- ü 32 Projects
- ü 135 PostDoc
- ü 108 Ph.D

> **291 projects funded**
> **In 24 countries**



Middle East

Africa



AXA
Research Fund

Governance

Management Committee of AXA

Approves

- § Defines strategic orientations
- § Validates projects based on SB's recommendations
- § Evaluates global impact of the Fund

Scientific Board of the AXA Research Fund

Advises

- § Helps identify potential institutions, projects, grantees to be supported by the Fund
- § Define projects and grantees selection criteria
- § Selects projects and grantees according to defined process
- § Is a privileged and trusted link with academic institutions
- § Helps build and extend the referees' network

Scientific Board chaired by **Ezra Suleiman**, Prof. of Political Science (Princeton University, USA)

Academics:

- **Prof. P. Cossart** (Pasteur Institute, France)
- **Prof. L. Lessig** (Harvard Law School, USA)
- **Sir B. Hoskins** (Imperial College, UK)
- **Prof. J. Scheinkman** (Princeton University, USA)
- **Prof. J. Vaupel** (Max Planck Institute of Rostock, Germany)

AXA Group Top executives:

George Stansfield, Eric Chaney, Jean-Christophe Menioux, Anne-Juliette Hermant, Véronique Weill, Lucie Taleyson
Chairman and CEO of Exane: **Nicolas Chanut**

Operational Team of the AXA Research Fund

Administrates

- § Sources "must have" institutions and encourages them to apply
- § Engineers and administrates application and selection processes
- § Coordinates Management Board's, Scientific Board's, Sub-committees' and referees' actions
- § Ensures the successful implementation of selected projects and monitors their outcomes
- § Liaises with AXA operations when appropriate Ensures Fund's communication and research outcomes dissemination (internally and externally)
- § Reports to Management Board on Fund's actions and outcomes



Building a Research Community

- n The AXA Research Fund wants to **give more than money**. That's why, three times a year, a « **Talent Days** » or a « **Pop Day** » event is organized, gathering 20 AXA fellows working in similar research field at AXA Headquarters in Paris.



- n Talent Days aim at **boosting the young researchers' career and help them to network with peers**, share knowledge and best practice, notably during a plenary session by a world class academic : highly appreciated by attendees as is a privileged opportunity to learn from a leading scientist in the field.
- n During Pop Days, the grantees are helped to **better popularize their research in order to play a role in the public debate**.

Focus on a Chair: AXA – Newcastle University

- n **Chair on Longevity and healthy active Life** hold by **Carol JAGGER**, Professor of Epidemiology and based in the multidisciplinary Institute for Ageing and Health (IAH) in Newcastle.
- n Three interlinked major research themes will be explored: Understanding variations in Healthy Active Life Expectancy; Disability and functioning in later life; Ageing population projections for policy.
- n The objective of this Chair is to **advance knowledge on healthy longevity and the impacts of increasing life expectancy for society in the 21st century.** It will study how and why healthy longevity varies between and within countries and between individuals.
- n The findings will be used in a **unique projection model to ascertain future trends in disability and associated long term-care needs.**



Focus on a Chair

AXA – EIEF: Household Finance and Insurance

- n **Professor Guiso believes that the importance of trust has been neglected in economics and especially in finance.** By bringing trust back to the attention of economists, his research shows that trust beliefs matter considerably for people's reliance on financial instruments as well as for the development of financial markets. Trust is even more important for households, because, lacking knowledge and information, they often need to rely on it when asking for advice to make their financial decisions.
- n That's why **expanding existing models of households' financial decisions** to allow not only for diversity in preferences for risk but also in people's beliefs towards other people behavior will better capture households interactions with financial markets.
- n To support his research on household trust, **AXA Research Fund** funded him with **500k€ for a 3 years Chair Household Finance and Insurance** in Einaudi Institute (created by the Bank of Italy) in Rome.
- n Professor Guiso will study new models of behavior in the face of risk and uncertainty that might take into account a richer characterization of preferences and additional dimensions of risk, including social risk.



Focus on a Project

AXA – Exeter: European windstorms in a Changing Climate

- § The objective of the project is to **assess the potential evolution in European windstorm events in a changing climate focusing to aspects directly relevant to insured losses over Europe.**
- § This project addresses windstorms making landfall over Europe from a large scale perspective, the occurrence of extreme wind speeds and precipitation and the question of a clustering of extremes. **The statistical modelling will allow to properly quantify the effect of clustering and multi-peril dependency on estimates of storm-related risk and how it might change in the future.**
- n To support his research on European Windstorms, **AXA Research Fund** funded **Prof David Stephenson** with **275k€** for a **3 years Project** at the **University of Exeter (UK)** on **Storm Tracks, Clustering and Multi-peril Extremes.**
- § The **set-up of a European windstorm research network** is a major focus of the project. The excellent international reach of the project is driven by the collaboration with the Hadley Centre of the UK Met Office, contribution of the Prof Stephenson both in several international committees and expert teams and links with the ENSEMBLES project.

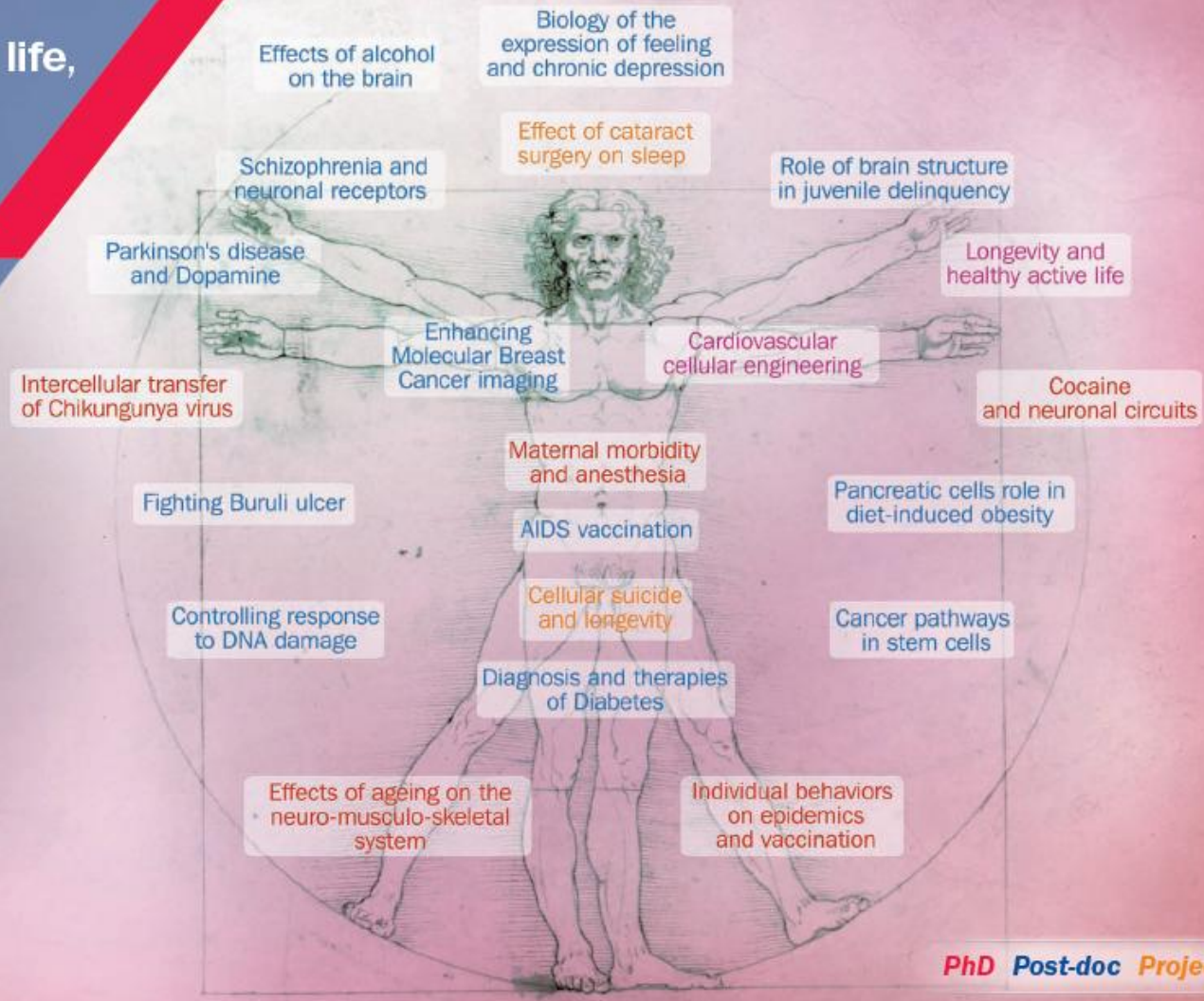


Because

Science is the heart of life,

the AXA Research Fund finances 220 research teams to cover you, and every parts of the human body.

A sample of Research financed between 2008 and 2011



Do you want to know more?
www.axa-research.org



AXA
Research Fund
Through research protection

More information on www.axa-research.org



Welcome to the AXA Research Fund website /

search



Contact Alumni Network

ABOUT US

GRANTED PROJECTS

HOW TO OBTAIN FUNDING

EVENTS

MEDIA OFFICE

Through research, protection

Our core mission is to finance basic research contributing to understand and prevent risks. We support innovative and cutting-edge projects within three areas:

- ENVIRONMENTAL RISKS
- LIFE RISKS
- SOCIO-ECONOMIC RISKS

> Read more about our mission

HOW TO OBTAIN FUNDING

● **Antarctica** - keeping an eye on the last unexplored continent on Earth

● **When biology meets engineering** - AXA Chair

● **Service to our grantees** - Talent Days on Environmental Risks

● **Space Weather** - Sophie Murray, AXA Ph.D. Fellow

● **Interview with Brian Hoskins** - Member of the Scientific Board

GRANTED PROJECTS

€ 63 million committed, 256 research projects supported in 22 countries, 42 different nationalities.



FUNDING CAMPAIGNS



! **Current open campaigns**
2011 campaign for Chairs and 2011 campaign for Post-Doctoral Fellowships are open. More details available here.

✓ **Results of selections**
Results for the second 2010 campaign for Post-Doctoral fellowships are available here.

EVENTS



March 28, 2011 **Talent Days - Life Risks - Second Edition**
> Read more

December 02, 2010 **Launch of the AXA - NUS Project on Biology of Decision making under risk**
> Read more