



**Global action  
against dementia**

*New Care and Prevention Models  
3rd Global Dementia Legacy meeting*



**JPND**  
research

EU Joint Programme – Neurodegenerative Disease Research

# Joint Programming in Neurodegenerative Disease Research (JPND)

*Coordinating approaches to research across Europe*


**Prof. Philippe Amouyel, MD, PhD**  
**JPND Chair**  
*Tokyo, November 6th, 2014*

# What is Joint Programming in Research?

## Three pillars

- **A shared vision** : countries **engaging voluntarily and on a variable geometry** basis to tackle a major societal challenge
- **A management structure** : to address as efficiently as possible this societal challenge
- **A common strategic research agenda** : to be defined, developed and implemented





**We cannot tackle neurodegenerative diseases by acting as single countries**

**JPND is the largest global ND research initiative led by countries, with 28 participating**

**EU member states**

**Associated countries**

**Third countries**

**Increasing coordination of national research programmes to improve impact and effectiveness**

Albania  
Austria  
Belgium  
Canada  
Croatia  
Czech Republic  
Denmark  
Finland  
France  
Germany  
Greece  
Hungary  
Ireland  
Israel  
Italy  
Luxembourg  
Netherlands  
Norway  
Poland  
Portugal  
Romania  
Slovakia  
Slovenia  
Spain  
Sweden  
Switzerland  
Turkey  
United Kingdom

# The JPND goals

To tackle the challenge of Alzheimer's and other neurodegenerative diseases, the goals of the JPND Research Strategy are:

- **To develop new treatments and preventive strategies**
- **To improve health and social care approaches**
- **To raise awareness and de-stigmatise neurodegenerative disorders**
- **To alleviate the economic and social burden of these diseases**



# JPND brings together

- Researchers (Basic, Clinical, Healthcare/Social)
- National Funding Bodies
- National Research Strategies and Investments



# Neurodegenerative Diseases?

- **The neurodegenerative diseases that JPND focuses on are:**

- **Alzheimer's disease (AD) and other dementias**
- Parkinson's disease (PD) and PD-related disorders
- Prion disease
- Motor neurone diseases (MND)
- Huntington's Disease (HD)
- Spinocerebellar ataxia (SCA)
- Spinal muscular atrophy (SMA)



# Scope of JPND, Research

## Scientific

- Animal models
- Biobanks
- Cohorts/registries
- Disease pathology

## Medical

- Early diagnosis
- Prevention
- Clinical trials

## Social

- Health care delivery
- Home automation
- Health economics
- Ethics

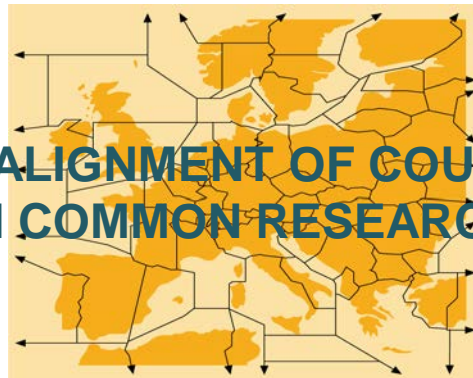


# Defragmentation – what JPND is all about...



**STRATEGIC RESEARCH AGENDA**

**ALIGNMENT OF COUNTRIES  
ON COMMON RESEARCH GOALS**





# JPND Research Strategy (SRA)

- **Agreed by all JPND Member States + Assoc. Countries**
  - Officially Launched Feb 7<sup>th</sup> 2012
- **Thematic priorities for future research:**
  - The origins of neurodegenerative disease
  - Disease mechanisms and models
  - Disease definitions and diagnosis
  - **Developing therapies, preventive strategies and interventions**
  - **Healthcare and social care**




# SRA Implementation (2012-2014)

## Annual Calls for Proposals

Year	Total fund available	Research Area	No. of Projects
2011 (pilot)	€16M	Optimization of biomarkers + harmonization of their use	4
2012	€18M	Risk and Protective Factors	5
2012	€11M	Evaluation of Healthcare	6
2013	€12M	Cross-Disease Analysis	10
2013	€11M	Preventive Strategies	5

## Centres of Excellence in Neurodegeneration (CoEN)

2011	€6M	Phase I : common resources and methodological approaches	8
2012-13	€8M	Phase II : “Pathfinder” projects	5



# Call statistics

Year	Call area of interest	No. of proposals submitted	Budget requested (million €)	No. of proposals recommended for funding	No. of proposals supported	Budget supported (million €)	Success rate (%)
2011	Harmonization of Biomarkers	14	€31	5	4	€14	29%
2012	Risk and Protective Factors	52	€97	18	5	€17	10%
2012	Healthcare Evaluation	22	€29	9	6	€9	27%
2013	Cross-Disease Analysis	90*	€112	23	10	€12.5	11%
2013	Preventive Strategies	35*	€36	5	5	€7	14%
<b>Total</b>		<b>213</b>	<b>€157m</b>	<b>60</b>	<b>30</b>	<b>€59.5m</b>	<b>18%</b>

\* pre-proposals



# JPND-supported projects in Preventive Strategies

- **EURO-SCD:**  
Subjective cognitive decline in preclinical Alzheimer's Disease: European initiative on harmonization and on a lifestyle-based prevention strategy (Coordinator: Frank Jessen, Germany)
- **MIND-AD:**  
Multimodal preventive trials for Alzheimer's Disease: towards multinational strategies (Coordinator: Mia Kivipelto, Finland)
- **NEUROEXERCISE:**  
The effects of an extensive exercise program on the progression of mild cognitive impairment (MCI) (Coordinator: Stefan Schneider, Germany)
- **ONWebDUALS:**  
ONTology-based Web Database for Understanding Amyotrophic Lateral Sclerosis (Coordinator: Mamede de Carvalho, Portugal)
- **PreFrontAls:**  
Searching for therapeutic interventions in frontotemporal dementia with C9ORF72 repeat expansions in the presymptomatic stage (Coordinator: John C van Swieten, The Netherlands)



# Encouraging deeper levels of collaboration for research groups

## JPND Online Partnering Tool



### Welcome to the JPND Partnering Tool | [About the tool](#)

#### Looking for partners for your project?

With the JPND partner finder, it is easy to register your research group's experience, and get an overview of other registered groups.

[Register research group](#)

[Search for partners](#)

#### Need more information about the tool?

For more information about how to use the tool, please view our Video Tutorials describing the different possibilities and features.

[Video Tutorials](#)

#### Have a proposal idea for a JPND call?

Registering a proposal idea for a JPND call is the first step towards drafting a proposal online using this tool. Once your idea is registered, you can choose to make it visible to all users to gain interest and feedback, or you can form private consortia around it, inviting selected partners to join, potentially leading to the drafting of a proposal.

To register a proposal idea, click on the relevant button below:




[Cross-Disease Analysis of Pathways](#)

[Preventive Strategies](#)



#### Browse research groups

Last updated

-  **Molecular mechanisms underlying cerebellar ataxia** 1/20/2014  
[JPND-1594](#) | Esther Becker
-  **Canine models of human neurodegenerative disorders @ University of Helsinki, Finland** 1/20/2014  
[JPND-1943](#) | Hannes Lohi
-  **Electrophysiology and optogenetics in behaving mice** 1/20/2014  
[JPND-1941](#) | Tatiana Korotkova

#### Browse proposal ideas

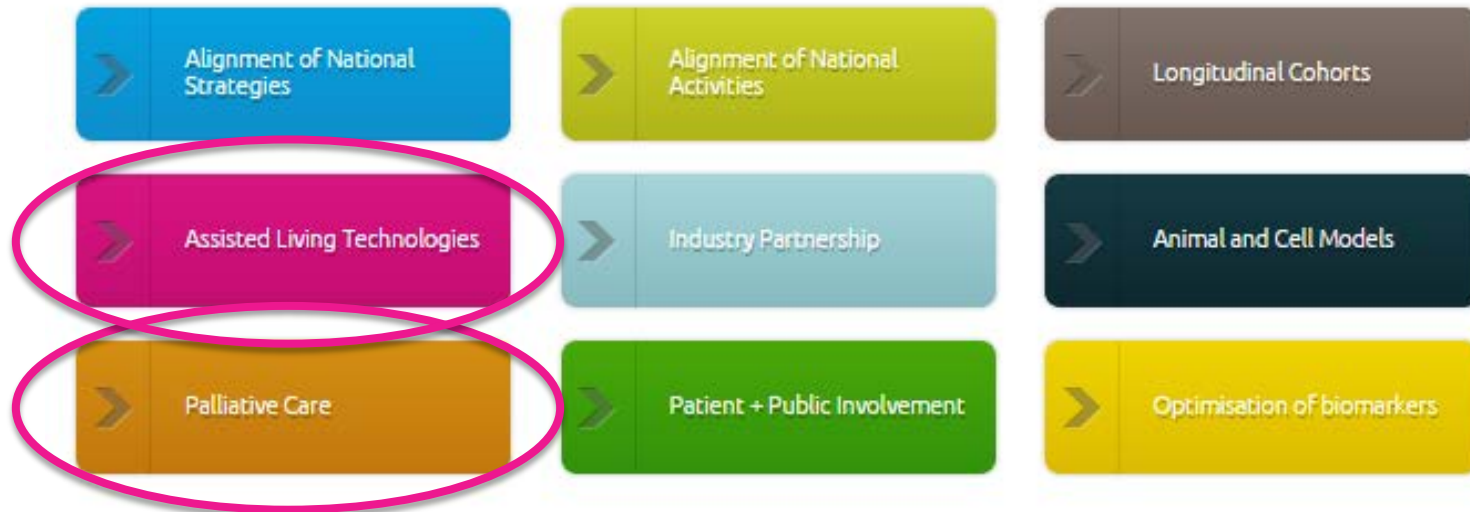
Last updated

-  **Involvement of Impaired Lysosomal Flux in Neurodegenerative Diseases** 1/18/2014  
[JPND-1884](#) | Barry Boland
-  **Embodied Movement Prevention for Parkinson Disease** 1/12/2014  
[JPND-1907](#) | Sabine Koch
-  **Boosting mitochondrial capacity in neurodegenerative diseases** 1/11/2014  
[JPND-1908](#) | Emanuela Bonnes



# JPND Alignment Actions

- **JPND Action Groups for:**



# Action Group Recommendations



# Assisted Living Technologies



Call 1: Chronic Conditions



Call 3: Self-Serve Society



Call 5: Home Care



Call 2: Social Interaction



Call 4: Mobility



Call 6: Occupation in Life



Innovation  
For  
Our Future

30 focused in dementia out of 150 AAL funded projects





# Palliative and End-of-life care for ND

- Distinct from cancer palliative care
- Advanced care planning
- Family involvement
- Cognition
- Difficult prognostication
- Important challenges:
  - how to shape palliative care through:
    - the stages of disease
    - the place of care
    - the key transitions more generally
  - optimizing care delivery through appropriate timing + integration of expertise
    - e.g. expertise in palliative, psychiatric, geriatric, dementia care, social and medical care



Participants at the JPND workshop,  
Amsterdam, June 25<sup>th</sup>, 2014



# Partnership with the EC

- Establish programme of co-investment to leverage the value of investments and resources at both national and EC level, to the benefit of Europe
- **Synergy between JPND actions and H2020 programme**
- First call of Horizon 2020 (Dec. 2013)
- ERA-NET cofund: Implementing a transnational call with EU co-funding
- **Three Call Topics in preparation for the end 2014/beginning 2015:**
- Identification of genetic, epigenetic and environmental risk + protective factors
- Longitudinal cohorts in ND research
- Advanced experimental models of ND



## From G7 to JPND, a shared vision

	<b>G7</b>	<b>JPND</b>
United Kingdom	YES	YES
France	YES	YES
Germany	YES	YES
Italy	YES	YES
Canada	YES	YES
United States of America	YES	-
Japan	YES	-
European Commission	YES	YES



# Keep up to date

- Visit the JPND **website**:
  - <http://www.jpnd.eu>
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- **E-mail us**: [secretariat@jpnd.eu](mailto:secretariat@jpnd.eu)
- Follow us on **Twitter**:



**@JPNDEurope**

