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Public Health Challenges

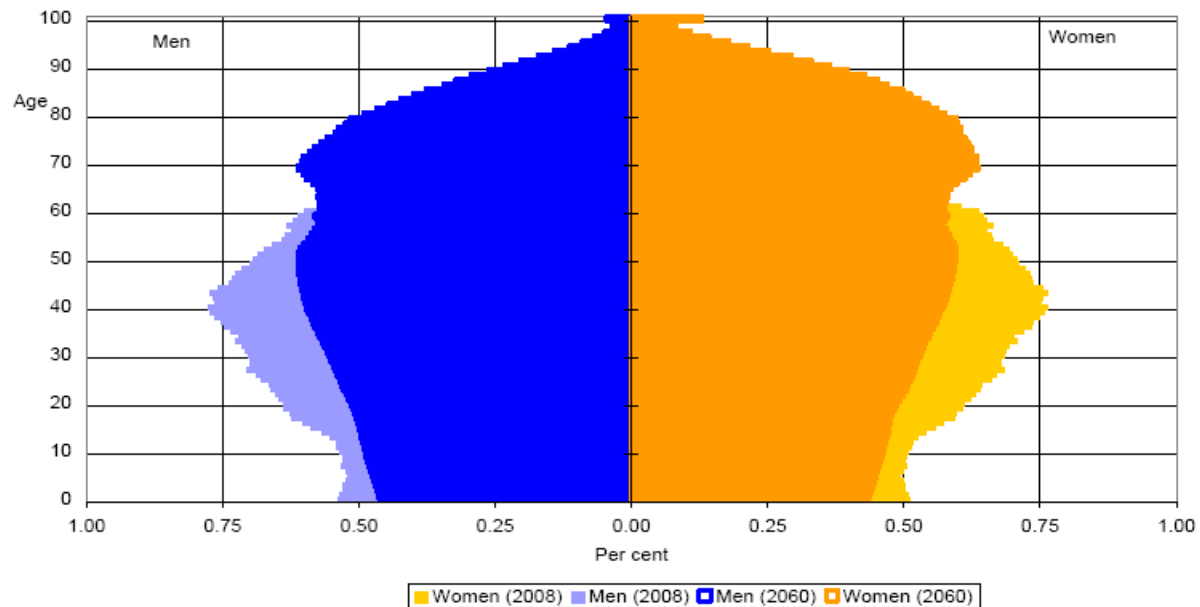
in the European Union

Overview

- 1) *Public health challenges*
- 2) *Key health-related areas in EC/DG RTD*
- 3) *Health care & research in the Innovation Union*
- 4) *Success stories*
- 5) *Migration challenge*
- 6) *Public health emergencies*

Public health challenges

Demographic change



Source: Eurostat, EUROPOP2008 convergence scenario

Public health challenges

Environmental change



Public health challenges

Antimicrobial resistance



Public health challenges

Chronic diseases



Public health challenges

Health care spending



Public health challenges

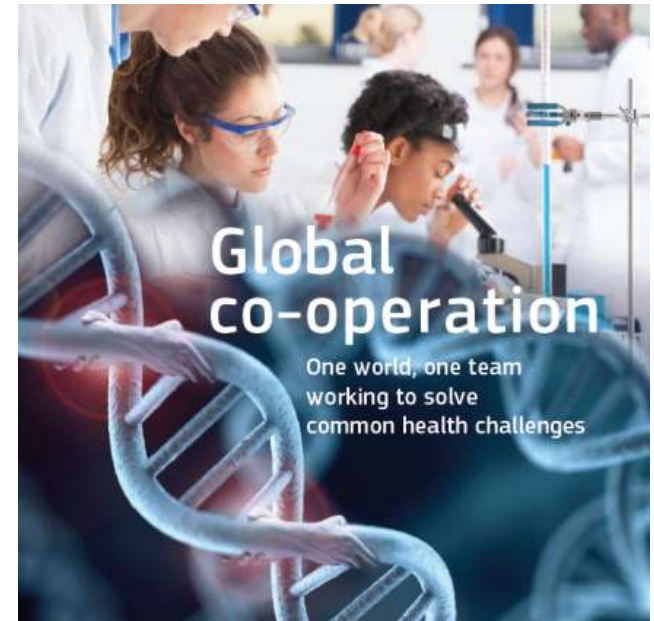
Knowledge translation



EU-level collaboration for innovative solutions



Horizon 2020 Societal Challenge 1: Health, demographic change and well-being



Main research priorities for 2016-2017



Personalised medicine

Promoting healthy ageing



Human biomonitoring

Health ICT



Infectious Diseases
AMR- Vaccines



Funded projects

CORDIS database

http://cordis.europa.eu/home_en.html

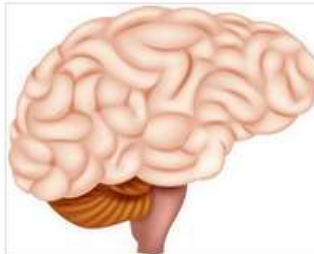
Latest Results in Brief



[Mechanistic insights into RNA decay](#)

2016-05-18

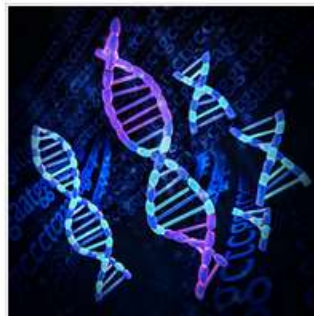
Regardless of their aetiology, most diseases are associated with an altered gene expression. Elucidating the mechanisms of gene translation regulation could help to intervene with gene expression at the molecular level.



[An intense look at the genes for brain function](#)

2016-05-18

The newly emerging field of imaging genomics is identifying genes that influence the neurobiology of human behaviour and psychiatric illness. An EU research project developed integrative predictive modelling tools to harvest the full potential of often disparate data.



[A new zebrafish model for congenital adrenal hyperplasia](#)

2016-05-18

Congenital adrenal hyperplasia (CAH) causes disorders of sexual development in both sexes. One of the most common inherited metabolic disorders, it occurs in 1 in 10 000 children and is normally the result of mutation in just one gene.

Innovation Union

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EUROPEAN CAPITAL OF INNOVATION

A place to bring
ideas to life



Innovation Union is the European Union strategy to create an innovation-friendly environment that makes it easier for great ideas to be turned into products and services that will bring our economy growth and jobs.

- http://ec.europa.eu/research/innovation-union/index_en.cfm?pg=home

Innovation Union

Innovative Medicines Initiative

- **With EFPIA**
- **5 billion EUR**

<http://www.imi.europa.eu/>



Innovation Union

*European Innovation
Partnership*

Active and Healthy Ageing

http://ec.europa.eu/research/innovation-union/index_en.cfm?section=active-healthy-ageing



Active & Healthy Ageing

*A European Innovation
Partnership*



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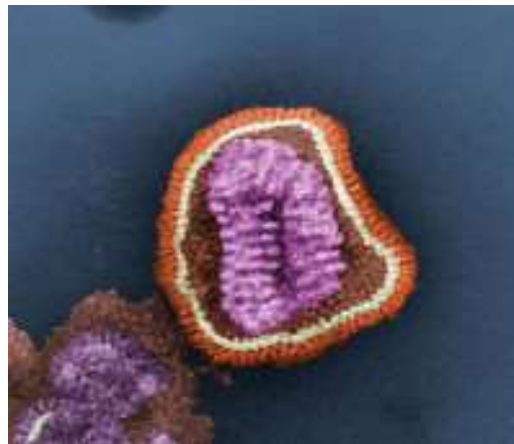
Joint programming initiatives

- **Alzheimer and neurodegenerative diseases**
- **Healthy diet for a healthy life**
- **More years – better lives**
- **Antimicrobial resistance**

http://ec.europa.eu/research/era/joint-programming-initiatives_en.html

SILVER

*Identifies new antiviral drugs to face emerging diseases caused by RNA viruses (measles, Ebola..).
<http://www.silver-europe.com/>*



COMPARE

Speeds up the detection and response to disease outbreaks in humans and animals through new genome technology

<http://www.compare-europe.eu/>



Rehab@Home

Develops a home rehabilitation platform for an effective and engaging game-based rehabilitation for stroke patients

<http://www.rehabathome-project.eu/project/>



EuroFIT

*Helps men to move more, sit less and eat better
– and to maintain the changes in the long term*

<http://eurofitfp7.eu/impact/>



Health Technology Assessment

4 projects on HTA

- **MedtechHTA: medical devices**
- **AdHopHTA: hospital-level HTA**
- **Integrate-HTA: complex interventions**
- **Advance-HTA: new methodologies**



INTEGRATE-HTA

Advance **HTA**

Addressing the challenges of migration

*Recommendations from the conference on migration
(04-05 February 2016)*

- **More rapid ('real time') assessment of healthcare needs**
- **Establish long-term cohorts to evaluate influence of different variables (e.g. on mental health, integration).**
- **further research on immigrant integration, access to and uptake of healthcare (participatory research)**

Current work programme 2016-2017

- **Population and patient cohorts**
- **Mental health and well-being in the young**

Public health emergencies

***Ebola** was a risk to global and European security*

- It cost over **11,000** lives

*Now **Zika***

Research a key component



**Global
collaboration
essential**

GL  PID-R



Thank you

Barbara Kerstiëns, MD, MPH

Deputy head of unit

E3 Infectious diseases and Public health

DG Research and Innovation

European Commission