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EU-LIFE

Building and promoting excellence in the life sciences in Europe

OEI Mission Working Party
Brussels, 3rd October 2018



EU-LIFE

IMPROVEMENT OF RESEARCH

SCIENCE POLICY

DEVELOP / SHARING INSTITUTIONAL PRACTICE & EXPERTISE

INSPIRING RESEARCH INSTITUTIONS



Focus on institutional level



540 Researcher Groups | >7200 Scientists | 120 Core Facilities

LEIDEN RANKING (BIOMED & HEALTH)

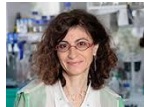
University	MCS	MNCS	PP_top10
MIT	28,1	2,7	32,1%
Caltech	20,7	2,0	25,3%
UC Santa Cruz	32,3	2,9	24,4%
Harvard Univ	14,9	1,9	22,9%
UC Berkeley	16,7	1,9	22,4%
UCSF	14,4	1,9	22,4%
Univ Cambridge	15,6	1,9	22,3%
Univ Oxford	15,0	2,0	22,3%
EPFL	17,3	1,8	21,9%
Stanford Univ	13,8	1,8	21,8%
Princeton Univ	15,0	1,8	21,4%
Univ Texas SW, Dallas	13,2	1,7	20,9%
LS Hygiene & Trop Med	11,8	1,9	20,8%
Washington Univ, SL	14,2	1,8	20,7%
Weizmann Institute	15,4	1,6	20,5%
Columbia Univ	12,0	1,7	20,1%
UCSD	13,9	1,7	20,1%
Queen Mary Univ	12,0	1,8	20,1%
KU Leuven	12,0	1,8	20,0%
Univ Dundee	13,4	1,8	19,7%
Univ Washington, Seattle	12,0	1,7	19,6%
Imperial College London	11,8	1,7	19,5%
Univ College London	11,2	1,7	19,5%
Pennsylvania	12,2	1,7	19,4%
King's College London	11,2	1,6	19,3%
Icahn School Med, Mount Sinai	12,6	1,7	19,3%
Univ Glasgow	12,3	1,7	19,1%
Univ Leicester	12,3	1,7	19,1%
Johns Hopkins Univ	12,0	1,7	19,0%
Univ Chicago	13,0	1,7	18,9%

EU-LIFE INSTITUTES @ LEIDEN RANKING (BIOMED & HEALTH)

University	MCS	MNCS	PP_top10
EU-LIFE 1	23,1	2,9	35,0%
MIT	28,1	2,7	32,1%
EU-LIFE 2	20,4	2,0	29,0%
EU-LIFE 3	23,3	1,9	28,0%
EU-LIFE 4	20,9	2,1	27,0%
Caltech	20,7	2,0	25,3%
EU-LIFE 5	24,9	2,0	25,0%
UC Santa Cruz	32,3	2,9	24,4%
EU-LIFE 6	25,3	2,3	23,0%
Harvard Univ	14,9	1,9	22,9%
UC Berkeley	16,7	1,9	22,4%
UCSF	14,4	1,9	22,4%
Univ Cambridge	15,6	1,9	22,3%
Univ Oxford	15,0	2,0	22,3%
EU-LIFE 7	24,0	2,0	22,0%
EU-LIFE 8	15,7	1,9	22,0%
EU-LIFE 9	17,5	1,8	22,0%
EPFL	17,3	1,8	21,9%
Stanford Univ	13,8	1,8	21,8%
Princeton Univ	15,0	1,8	21,4%
Univ Texas SW, Dallas	13,2	1,7	20,9%
LS Hygiene & Trop Med	11,8	1,9	20,8%
Washington Univ, SL	14,2	1,8	20,7%
Weizmann Institute	15,4	1,6	20,5%
Columbia Univ	12,0	1,7	20,1%
UCSD	13,9	1,7	20,1%
Queen Mary Univ	12,0	1,8	20,1%
EU-LIFE 10	13,3	1,6	20,0%
KU Leuven	12,0	1,8	20,0%
Univ Dundee	13,4	1,8	19,7%

BOARD OF DIRECTORS

13 Partners' Directors
Chair and Co-Chair



Genevieve Almouzni



Rene Medema

EU-LIFE COORDINATOR



**Marta
Agostinho**

STRATEGY GROUP

WORKING GROUPS

IT | Science Communication | Grants & Funding | Research
Infrastructure - Core Facilities | Tech Transfer | Training &
Recruitment | Translational Research



CRITICAL MASS | EXPERTISE | ACCESS | SHARE | LEARN

POLICY AGENDA

- R&I in global policy
- FP9 / H2020
- EU-LIFE @ key platforms: ERA, OSPP
- R. Infrastructure, Animal use for research, RRI, Gender, Research evaluation, Research Integrity, Open Science

POSITION PAPERS & MONITORING

- Key elements research
- Translational research
- Mentoring independent researchers
- Pis recruitment & career evaluation (ongoing)

TRANSDICIPLINARY PROJECTS

- Gender equality
- Open Science
- Scientific collaborations



MOBILITY & INTERNATIONALITY

- EU-LIFE visiting programme
- Online tools
- Funding oportunities
- Research groups
- Technological facilities
- Brazil: FAPESP -EU-LIFE Agreement
- Training opportunities

EVENTS & CONFERENCES

- Annual scientific workshops
- Technology transfer
- Communicating animal research
- Train the trainer & capacity building





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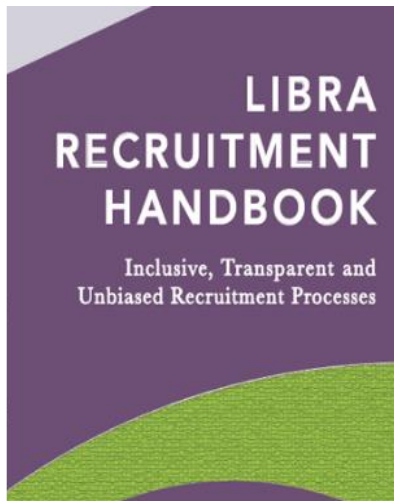


INSTITUTIONAL CHANGE



Work-Life Balance workshop for HR at CEITEC

The LIBRA Work-Life Balance training for leaders from HR departments and other administration staff was held on December 2016 in Brno, Czech Republic. More than 30 participants representing almost the whole project consortium attended a one-day workshop, which was introduced by Andrea Handsteiner (BOKU, Wien, Austria) as a key note speaker.



LIBRA Workshop in Gender-Inclusive Recruitment



Marijke Lein
HR Director, VIB, Belgium

"To me, the workshop was a real eye-opener on several aspects of the hiring process, starting with the writing of a job ad. It is amazing how we all use to write our job ads in a very masculine way (yes, even us, all the woman in the room)."



20 EU-LIFE post-docs on their way to become a PI



✓ 1st EU-LIFE Scientific Workshop 2014, CRG, Barcelona

Biology of Cancer

62 Participants, 13 EU-LIFE institutes



✓ 2nd EU-LIFE Scientific Workshop 2015, BRIC, Copenhagen

Epigenetics & Disease

80 Participants, 13 EU-LIFE institutes



✓ 3rd EU-LIFE Scientific Workshop 2016, CeMM, VIENNA

Inflammation & Immunity in Health & Disease

120 Participants, 13 EU-LIFE institutes



✓ 4th EU-LIFE Scientific Workshop 2017, MDC, Berlin

Principles of Homeostasis in Health & Disease

62 Participants, 13 EU-LIFE institutes





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Apply for MSCA fellowship and join our leading EU-Life research groups at the heart of Europe

Follow your passion and develop a project in one of our 100 research groups. Integrate the research life science technologies. Expand your skills through extensive training programmes. Join a European-wide network of excellence in life sciences.

WANT TO ACCELERATE YOUR CAREER?
Apply for a postdoc fellowship@EU-life

EU-LIFE is an alliance of 100+ research centres in 16 countries to support and strengthen European research excellence. Partners in EU-LIFE are renowned research centres that operate with a long tradition of excellence, mutual respect, independence, complementarity and interconnectivity.

The alliance opens 100 excellent research projects with scientists from all corners of the world. EU-LIFE centres are involved in many research fields such as cancer, neuroscience, developmental biology, genetics and epigenetics, immunology, infectiousness, plant biotechnology and systems biology.

EU-LIFE institutes have a high success rate in winning international grants, with over 1000 funding EU projects and an average of 1000 training postdoc fellowships in highly competitive schemes such as MSCA, Marie and FP7. The EU-LIFE network offers the ideal environment to accelerate your career and join the European-wide network of centres of excellence in life sciences.

Would you like to get the best of experienced grant managers at the EU-LIFE institutes will support you with all aspects of your application.

Contact directly your group leader or email us with your curriculum in to postdoc@EU-LIFE.

www.eu-life.eu





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COURSES 2017

 <p>Barcelona, Spain April 17</p> <p>Chromosomal Conformation October 2017</p>	 <p>Bonn, Czech Republic June 12-16</p> <p>New Approaches in Experimental Biology and Omics October 2017</p>	 <p>Paris, France June 19-23</p> <p>3rd International Course on Breast Cancer: from omics to biology October 17</p>
 <p>Bonn, Switzerland July</p> <p>Big Data Workflow in an Image Facility: from Acquisition to Storage October 2017</p>	 <p>Duisburg, August 29-30</p> <p>Technology Transfer Course October 18</p>	 <p>Berlin, Germany September</p> <p>Computational Genomics: hands-on course on Data Analysis October 2017</p>
 <p>Copenhagen, Denmark October 2-4</p> <p>Stem Cell Biology and Regenerative Medicine October 2017</p>	 <p>Helsinki, Finland October 16-17</p> <p>Building Bridges: Epigenetics in Clinical and Translational Research October 2017</p>	 <p>Amsterdam, Netherlands November 13-17</p> <p>Basics Medical Statistics Course October 2017</p>



VISITING SCIENTIST PROGRAMME



Great opportunity for PhD students, postdocs, technicians, staff scientists and PIs to visit other EU-LIFE institutes to participate in several types of training activities, plug in on each other's core facilities, visit colleagues to learn a specific method and / or technique, and ultimately to start scientific collaborations.

APPLY NOW AT
www.eu-life.eu



Do you want to...
attend a training?
learn a technique?
collaborate with a research group?

EU-LIFE is an alliance of the following centres:



Useful information



Training
Job opportunities
Scientific collaborations
Access to Core facilities

<http://eu-life.eu/jobs>

<http://eu-life.eu/content/funding-opportunities>

<http://eu-life.eu/groups>

<http://eu-life.eu/technologies>



WWW. EU-LIFE. EU

Research groups (540)

Technological platforms (118)

NEWSLETTER

3 ISSUES in 2017

- ✓ FEB: EPIGENETICS
- ✓ MAY: HOMEOSTASIS
- ✓ NOV: RNA Biology





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KEY POLICY OUTPUTS 2015- 2017

3 SUCCESSFUL NOMINATIONS

- ✓ ERA stakeholders platform
- ✓ Open Science Policy Platform
- ✓ Giulio Superti-Furga - ERC Scientific Council



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EUROPEAN SCIENCE POLICY

OVERARCHING POLICY



EUROPEAN RESEARCH AREA

NATIONAL RES. SYST.
TRANSNATIONAL CO-OP.
LABOUR MARKET 4 RES.
GENDER EQUALITY
KNOWLEDGE CIRCULATION
INTERNATIONAL CO-OP.

AREAS



OPEN SCIENCE

RRI / RES.
INTEGRITY

GENDER

RESEARCH INFRASTRUCTURE

FAIR DATA
OPEN ACCESS PUBLISHING
OPEN SCIENCE CLOUD
SKILLS
REWARDS
ALTMETRICS
CITIZEN SCIENCE



ETHICS
RES. INTEG.



EQUALITY
GENDER IN RES.



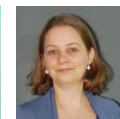
SUSTAINABILITY



INSTRUMENTS



FINANCIAL: H2020 / FP9



3 SUCCESSFUL NOMINATIONS

- ✓ ERA stakeholders platform
- ✓ Open Science Policy Platform
- ✓ Giulio Superti-Furga - ERC Scientific Council

6 EU-LIFE POSITION PAPERS

- ✓ Open Statement on the **Strategic Investment Fund** (Juncker Plan)
- ✓ On the concept of the **European Innovation Council**
- ✓ The next horizon: **EU-LIFE vision for FP9**
- ✓ **H2020 mid-term review**: Implementation aspects
- ✓ **ERC 10th Anniversary** statement
- ✓ **FP9: Towards better research value in Europe: translating knowledge to innovation**

7 EC PAPERS / REPORTS

Research infrastructures Long Term sustainability
Gender Targets – EU Council
EC Code of Conduct of Research Integrity
Open Science – Rewards
Open Science – Skills
Open Science Altmetrics / Next generation metrics
Open Science – Citizen science

10 EC OFFICIAL CONSULTATIONS

H2020 mid-term consultation
Foresight | Delphi study for FP9 (x2)
FET FLAGSHIP consultation
SWAFS H2020 (x2)
Research Infrastructure
Health – Societal Challenge 1
EC MFF post 2020
Missions FP9

MEETINGS

Participation in > 40 policy meetings @ European level

ERC 10TH ANNIVERSARY & OTHER FP9 PUBLIC NEWS

You Retweeted
I Gubbenkian Clincia @IGClincia · Mar 16
 "Because breakthroughs take time to make" **Monica Dias** @IGClincia @EULIFE_news on why #ERC_Research is singular #ERC10yrs



"There are multiple evidences that ground-breaking research can take a long time and a 5-year ERC grant allows us to think long-term"
Monica Bettencourt Dias

You, ERC Europe and I Gubbenkian Clincia

You Retweeted
CEITEC @CEITEC_Brno · Mar 16
 Richard Stefl @CEITEC_Brno @EULIFE_news *#ERC_Research gives you a chance to explore ideas as a scientist and not a craftsman* #ERC10yrs



"An ERC funding fuels creativity in addressing fundamental challenges in biology. It gives you a chance to explore ideas as a scientist and not a craftsman."
 Richard Stefl

CEITEC | eulife

You Retweeted
I.E.O. @IEOufficiale · Mar 20
 Il ruolo fondamentale del grant ERC per la ricerca #ERC10yrs



"GRANT ERC. LO STRUMENTO PER I GRANDI PROGETTI DI RICERCA"
 Pier Giuseppe Palcic
 Direttore della Ricerca IEO

IEO Istituto Europeo di Oncologia | eulife

You Retweeted
Babrahan Institute @Babrahaninst · Mar 14
 Celebrating what #ERC10yrs @ERC_Research has allowed researchers to achieve. First up Michelle @LintermanLab @EULIFE_news



"My ERC Starting grant allowed me to tackle age-dependent decline in the immune system"

erc #ERC10yrs | eulife | Dr Michelle Linterman

You Retweeted
CeMM @CeMM_News · Mar 14
 "The ERC's funding opens numerous exciting opportunities to push the boundaries" @abergthaler on #ERC10yrs @ERC_Research @EULIFE_news



"An ERC grant encourages you to think beyond your own comfort zone and to explore novel conceptual and technological approaches which often lie at the interface of different scientific disciplines. The ERC's funding support and scientific prestige opens numerous exciting opportunities to push the boundaries and collaboratively address fundamental questions of biology."
 Andreas Bergthaler, CeMM Principal Investigator and ERC grantee

Ce-M-M-
 Research Center for Molecular Medicine
 of the Austrian Academy of Sciences

You Retweeted
CRG @CRGenomics · Mar 16
 These are the witty thoughts of our researcher @GianGaetanoTartaglia about #ERC10yrs @ERC_Research @EULIFE_news @IBST @ICERCA

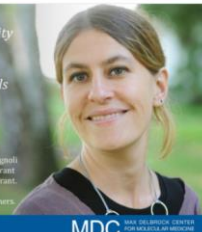


"ERC: Enjoying Research Completely! The ERC gave me the opportunity to study without constraints."
 Gian Gaetano Tartaglia
 ERC Starting Grant

CRG⁹
 Center for Research in Genomics Regulation

MDC
MDC @MDC_Berlin · Mar 16
 Happy Birthday @ERC10yrs
 Francesca Spagnoli @ERC10yrs #ERC_Research funds innovative ideas insights.mdc-berlin.de/en/2017/03/frs... #diabetes #ERC10yrs @EULIFE_news

"Inducing an identity crisis in liver cells can convert them into pancreatic cells and may one day help diabetics."



The research of Francesca Spagnoli is funded by an ERC Starting Grant and an ERC Proof of Concept Grant.
 She is one of our 14 grant winners

MDC
 MDC BERLIN RESEARCH CENTER FOR MOLECULAR DIABETES
 of the Helmholtz Organization

You Retweeted
VIB @VIBLifeSciences · Mar 15
 Dieter Lambrechts (VIB @Leuven1) #ERC10yrs @ERC_Research @EULIFE_news



"Our ERC grant enabled us to drive our research into new directions, providing support for our studies into how the tumor environment influences the epigenome and thus the behaviour of cancer cells."
 Dieter Lambrechts

VIB VIB LEUVEN CENTER FOR CANCER BIOLOGY | eulife



EurekaAlert!
 The Global Source for Science News

AAAS

HOME NEWS MULTIMEDIA MEETINGS PORTALS ABOUT

PUBLIC RELEASE: 13-MAR-2017

EU-LIFE calls for an increased ERC budget

Key role for ERC is to make Europe more competitive to attract top researchers

CENTER FOR GENOMIC REGULATION

f t v+ b SHARE

PRINT E-MAIL

On the occasion of the 10th anniversary of ERC, EU-LIFE released a statement with the message that in only a decade, ERC has become a flagship for excellent scientific research in - and for - Europe which is key to innovation. Also according to the statement, the ERC plays a crucial role in supporting that research in Europe.

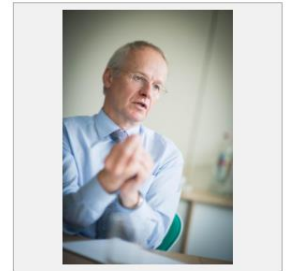
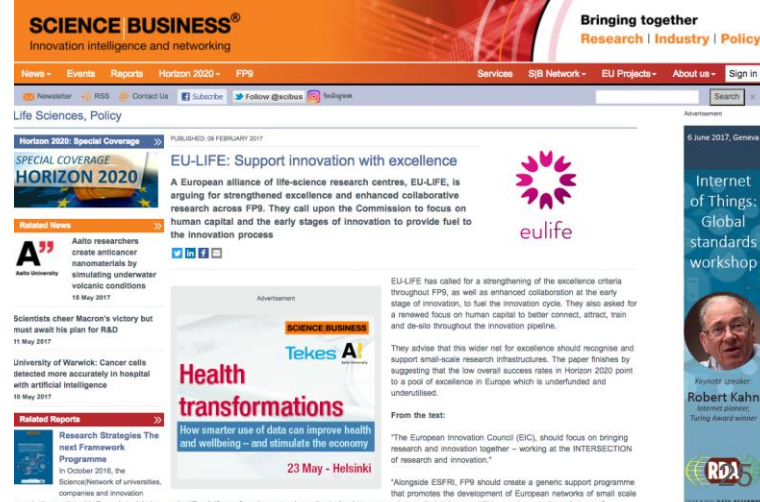


IMAGE: JO BURY, CHAIR OF EU-LIFE AND DIRECTOR OF VIB. [view more](#)

CREDIT: EU-LIFE, VIB, CCBY

The ERC has proven very successful in attracting top researchers to Europe and in increasing the competitiveness of Europe's research at a global scale. The ERC allows the brightest scientists to perform research that sooner or later will pave the way to disruptive innovation from all scientific



SCIENCE BUSINESS
 Innovation intelligence and networking

Bringing together
 Research | Industry | Policy

News - Events Reports Horizon 2020 - FP9 Services SIB Network - EU Projects - About us - Sign in

Life Sciences, Policy

Horizon 2020: Special Coverage
SPECIAL COVERAGE HORIZON 2020

Published: 08 FEBRUARY 2017

EU-LIFE: Support innovation with excellence
 A European alliance of life-science research centres, EU-LIFE, is arguing for strengthened excellence and enhanced collaborative research across FP9. They call upon the Commission to focus on human capital and the early stages of innovation to provide fuel to the innovation process

EU-LIFE has called for a strengthening of the excellence criteria throughout FP9, as well as enhanced collaboration at the early stage of innovation, to fuel the innovation cycle. They also called for a renewed focus on human capital to better connect, attract, train and de-select throughout the innovation pipeline.

They advise that this wider net for excellence should recognise and support small-scale research infrastructures. The paper finishes by suggesting that the low overall success rates in Horizon 2020 point to a pool of excellence in Europe which is underfunded and underutilised.

From the text:

"The European Innovation Council (EIC), should focus on bringing research and innovation together - working at the INTERSECTION of research and innovation."

"Alongside ESFRI, FP9 should create a generic support programme that promotes the development of European networks of small scale scientific platforms focusing not only on the technology per se, but on their interoperability, complementarity and access."

Advertisements:
 Tokes AI
Health transformations
 How smarter use of data can improve health and wellbeing - and stimulate the economy
 23 May - Helsinki

The future of Research & Innovation in Europe: FP9

The role of stakeholders' organizations in EU R&I policy

The FP9: key principles, priorities and major challenges



KURT VANDENBERGUE
EC DGRTD
Director Directorate A – Policy,
Development and Coordination



KURT DEKETELAERE
Secretary-General LERU





The future of research evaluation

Paul Wouters, CWLS, Leiden

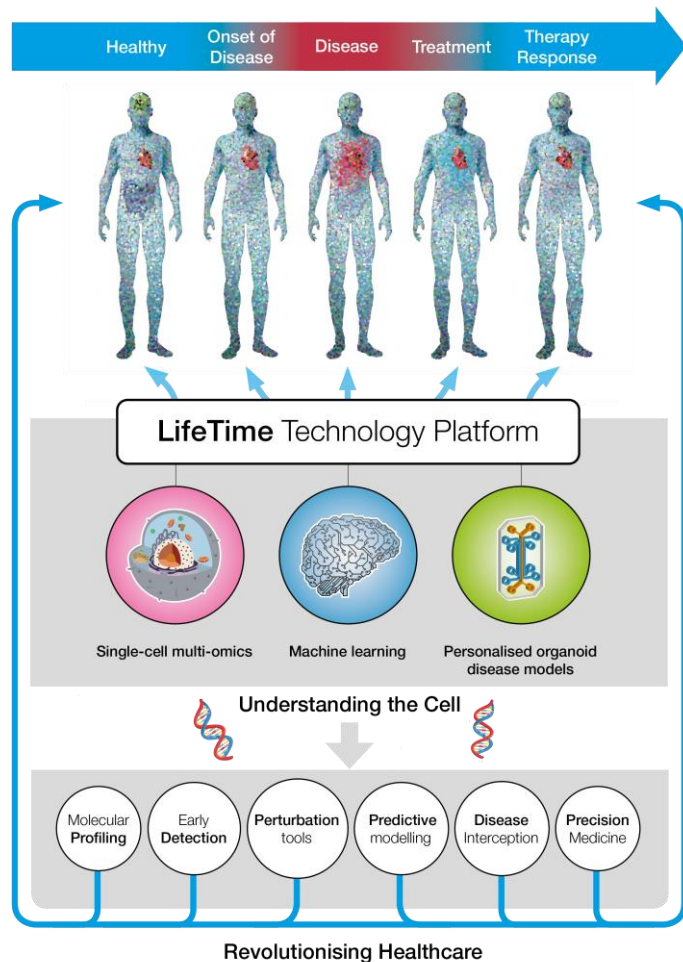
Panel discussion PI, Post doc, Director

PIs and Post docs invited to show interest to participate in the panel



Horizon Europe: advocating for excellent research in Europe

Stephan Kuster



Revolutionizing Healthcare by Tracking and Understanding Human Cells during Disease

A multi-disciplinary effort to quantify and model cellular trajectories in health, to detect and predict their deviation during disease progressions and to find targeted perturbations to steer trajectories in disease back to health.

The Long Term Vision:

LifeTime technologies will inform the physician about the molecular history of a patient's tissues, their future, and the consequences of perturbations or medical treatments, leading to early diagnosis and effective interception of disease

- The first scientific project initiated and supported by **EU-Life**
- Co-coordinated by the Max Delbrück Center for Molecular Medicine (Nikolaus Rajewsky) & Institut Curie (Geneviève Almouzni)
- 55 top institutions from 17 countries, more than 50 companies, and major European science academies



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HORIZON EUROPE: 2021-2027



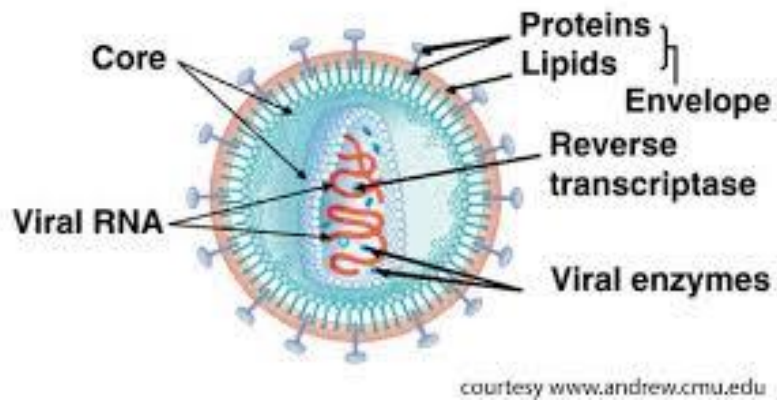
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MISSION ORIENTED RESEARCH

MAXIMISE IMPACT

RETROVIRUS and AIDS

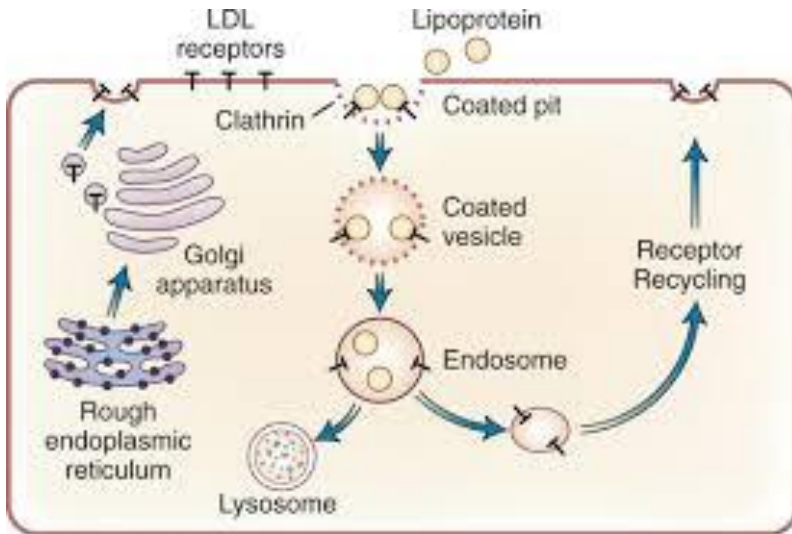
Structure of a retrovirus



David Kirby on his deathbed, Ohio, 1990. Therese Frare

IMPACT OF OPEN-ENDED RESEARCH

CARDIOVASCULAR DISEASES



Cholesterol - LDL receptor internalization - statins

IMPACT OF OPEN-ENDED RESEARCH

- ✓ **Invest in creating the pool of knowledge that feeds innovation**
- ✓ **Highest impact – more disruptive and longstanding**
- ✓ **Public funded needed at the risky stages of the innovation process – the blue sky research stage**



Ronald Reagan (April 2, 1988):

“...We also support more of what is called basic research; that is, research meant to teach us rather than to invent or develop new products.

And for the past 40 years, the Government has been our leading sponsor of basic research.

The remarkable thing is that although basic research does not begin with a particular practical goal, when you look at the results over the years, it ends up being one of the most practical things government does...”

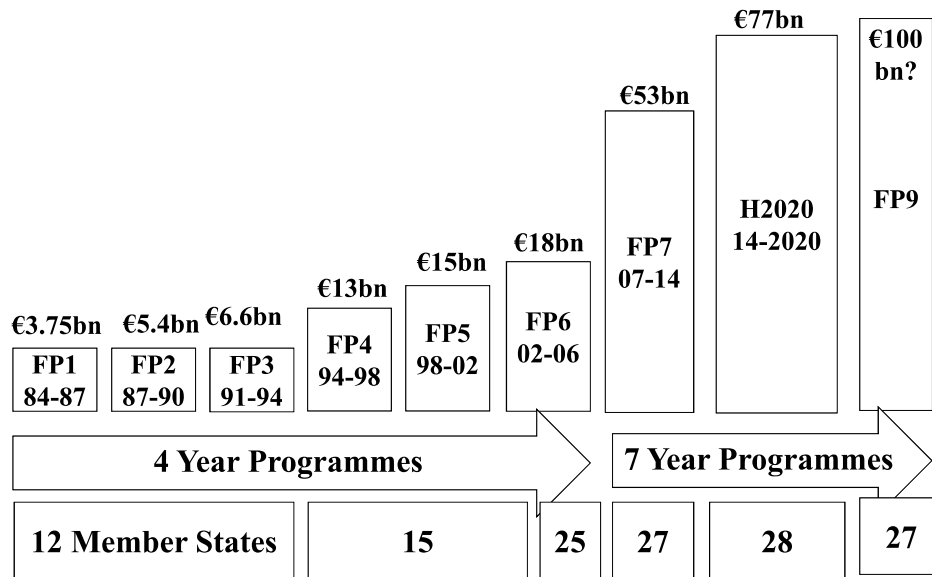
<http://www.presidency.ucsb.edu/ws/?pid=35637>

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www.hyperion.ie

From Framework 1 to Framework 9



EU-LIFE

150B

94.1B

120B

EU-LIFE

Better balance:

- ✓ Double ERC and MSCA budget
- ✓ Impact: definition & timespan
- ✓ Meaningful knowledge transfer
- ✓ Support to small scale research facilities

Excellent research is crucial for impact in HE

Strengthen ERC and MSCA

More space for research in global challenges & missions

definition of impact

work programme planning

evaluation guidelines & criteria

Bring researchers & innovators together

Include small scale research infrastructures

Focus on real institutional reform in Sharing Knowledge



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www.eu-life.eu



@EULIFE_news

Contact: marta.agostinho@eu-life.eu

Papers

“Key elements for research excellence” (Strategy WG)

“Mentoring PIs in life sciences” (R&T WG)

EU-LIFE translational research paper : comment in Nature and paper in TMM (TwG)

Workshops

Best practices in Spin Off Creation (TT)

Institutional Strategies on Social networks (Sci Comm)

Institutional Strategies on Communicating Animal Research (Sci Comm)

Crisis Communication (Sci Comm)

MSCA Training the trainer (Grants & Funding Opp.)

Other

H2020 Consortia: List of smes (116), potential partners, shared info alerts (GF)

PROJECTS



TRANSVERSAL PROJECTS
PROVIDE FUNDS AND DEADLINES
BOTTOM UP
LIKE SCIENTIFIC PROJECTS, NOT
NECESSARILY ALL IN

Support the creation and diffusion of high-quality knowledge

Strengthen the impact of R&I in supporting EU policies

Foster all forms of innovation and strengthen market deployment

Optimise the Programme's delivery for impact in a strengthened ERA



Pillar 1

Open Science

European Research Council

Marie Skłodowska-Curie Actions

Research Infrastructures



Pillar 2

Global Challenges and Industrial Competitiveness

Clusters

- Health
- Inclusive and Secure Society
- Digital and Industry
- Climate, Energy and Mobility
- Food and natural resources

Joint Research Centre



Pillar 3

Open Innovation

European Innovation Council

European innovation ecosystems

European Institute of Innovation and Technology

Strengthening the European Research Area

Sharing excellence

Reforming and Enhancing the European R&I system

- To be a **voice for independent research institutes** influencing European policy and to strongly advocate the key role of excellent research for the benefit of society.
- To **create an environment that stimulates excellence** in research through **sharing good practices and expertise** in research organisation and management (including quality evaluation, infrastructure, personnel management, training and career development).
- To **inspire institutions** to support ethically responsible research and innovation, open science and knowledge transfer to society.



- Field categories
 - Biomed & Health
 - Life & Earth Science
 - Mathematics & computer Sci
 - Physical sci and engineering
 - Social sci and humanities
- Papers in Multidisciplinary journals = linked to field category
- Fractionated vs non fractionated counting
- **10 of 13 EU-Life institutions: data assembled and analyzed**