ULB – “Cellule Europe”

European Liaison Office
ulb-europe@ulb.ac.be
http://www.ulb.ac.be/dr/cellule-europe/
+32 2 650 4288, +32 2 650 6718
Where is Cellule Europe situated?

Research Administration Department

Technology Transfer Office

Cellule Research

Cellule Doctorate

Cellule Contracts

Cellule Europe
What is Cellule Europe’s role?

Support along the project life-cycle (upstream & downstream)

Intermediary between research team & funding agency

To be continued...
Who is Cellule Europe?

- Vanessa Gemis
  - Background: Languages and Letters
  - Responsible for Social Sciences & Humanities domain

- To be determined as we speak
  - Background: .....  
  - Responsible for Life Sciences domain

- Anastasios Perimenis
  - Background: Chemical, Environmental, Bio-engineering
  - Responsible for Applied Sciences and Engineering domain

- Elizabeth Rosic
  - Administrative support, communication, databases, statistics, archiving, ...

ulb-europe@ulb.ac.be  
http://www.ulb.ac.be/dr/cellule-europe/
Funding opportunities - Overview

- H2020
- P2P (JPI, Art. 185, ERA-NET)
- PPP (JTI-JU, cPPP)
- Other EU (COST, EUREKA, LIFE+, INTERREG, ...)
- International (NIH, JDRF, WWCR, ...)
- Tenders
H2020 – Framework Programme

**Excellent Science**
- European Research Council (ERC)
- Marie Skłodowska Curie (MSCA)
- Future & Emerging Technologies (FET)
- Research Infrastructures (RI)

**Industrial Leadership**
- Leadership in Enabling & Industrial Technologies (LEIT)
  - ICT
  - Nanotechnology
  - Advance Materials
  - Biotechnology
  - Advanced Manufacturing
  - Space
  - Access to risk finance
  - Innovation in SMEs

**Societal Challenges**
- Health & Wellbeing
- Food, agriculture, marine, bioeconomy
- Energy
- Transport
- Climate, Environment, Resources
- Europe in a changing world
- Secure societies

**CROSS-CUTTING**
- European Institute of Innovation & Technology (EIT)
- EURATOM
  - Science with and for Society (SWAFS)
- Spreading Excellence & Widening Participation (SEWP)
ERC – Frontier research

Starting (STG)
- 2y < PhD ≤ 7y
- 1.5 M€ for 5 years (+0.5 M€)

Consolidator (COG)
- 7y < PhD ≤ 12y
- 2.0 M€ for 5 years (+0.75 M€)

Advanced (ADV)
- 12y < PhD
- 2.5 M€ for 5 years (+1.0 M€)

Proof of Concept (POC)
- For ERC grantees (150 k€, 18 months)

Scientific panels
- Life Sciences (9)
- Social Sciences & Humanities (6)
- Physical Sciences & Engineering (10)

- Scientific excellence (project and PI)
- Ground-breaking nature
- Feasibility but also high-risk/high-gain
- Reasonably interdisciplinary
 MSCA – Researcher Training

**Individual Fellowships (IF)**
- Standard European Fellowships (EF)
- Career Restart (CR)
- Reintegration (RI)
- Global Fellowships (GF)

**Innovative Training Network (ITN)**
- European Training Network (ETN)
- European Industrial Doctorates (EID)
- European Joint Doctorates (EJD)

**Research and Innovation Staff Exchange (RISE)**
International & Intersectoral staff exchange (research, administrative, technical)

**Co-funding of Regional, National and International Programmes (COFUND)**
Co-financing of experienced/early-stage researcher fellowship programmes

- High quality training to increase employability and career perspectives
FET – New technologies

FET-OPEN
• Novel ideas for radically new technologies

FET-PROACTIVE
• Clustering around future technologies to build critical mass of knowledge and excellence

FET-FLAGSHIP
• Large-scale research for common goal

✓ FET-OPEN: Highly competitive
  ➢ Example: Call 2014-2015 → cut-off 31/03/2015: 1.8% success rate
LEIT – Industrial perspective

Nanotechnology
Advanced Materials
Biotechnology
Advanced Processing

- Nanomedicine
- (Bio)catalysis
- Energy applications
- Downstream processing
- Molecular farming
- ....

Information & Communication Technologies

- Future Internet (5G)
- Big data
- Photonics
- Robotics
- Cloud computing
- ....

Space

- Earth Observation
- Technologies (e.g. propulsion, robotics, station keeping)
- Satellite Navigation
- ....

✓ Not “just” research → industrial/market potential

See also PPP *
See also cross-cutting *
SC – Focus on societal needs

**Health**
- Rare & chronic diseases
- eHealth
- Personalised medicine
- Big Data for Public Health policies
- ...

**Well-being**
- Efficient value chains
- Smart primary production
- Healthy & safe food
- Blue growth
- Biomass supply
- Rural economies
- ...

**Demographic change**
- Heating & cooling
- Buildings
- Integrated energy systems
- Renewable energy
- ...

**Food security,**
- Sustainable agriculture and forestry
- Marine, maritime & inland water
- Bioeconomy

**Secure, clean and efficient energy**
SC – Focus on societal needs

**Societal challenges**

**Smart, green and integrated transport**
- Urban mobility
- ITS
- Automated transport
- Green Vehicles
- ...

**Climate action**
- Climate services
- Low-carbon Europe
- Raw materials
- Territorial resilience
- ...

**Europe in a changing world**
- Inclusion
- Fairness and equality
- Common engagement
- European cultural space
- ...

**Secure societies**
- Disaster-resilience
- Crime & Terrorism
- Border Security
- Digital Security
- ...

*inclusive, innovative and reflective societies*

*protecting freedom and security of Europe and its citizens*
Further pillars

• Cross-cutting activities
  – Not attributable to one pillar, addressing simultaneous challenges
  – Circular economy, internet of things, smart & sustainable cities,…

• Science with and for the Society (SWAFS)
  – Responsible Research and Innovation (gender, ethics,…)

• Spreading excellence and widening participation (SEWP)
  – WIDESPREAD Character of R&I: Teaming & Twinning

• EURATOM

• European Institute for Science & Technology (EIT)
  – Knowledge Innovation Communities (KICs)
    • Triangle structure: Education, Research & Innovation, Entrepreneurship
    • KICs: Climate, Digital, InnoEnergy, Health, Raw Materials, *Added-value manufacturing, Food4Future, Urban Mobility*
• **Everything** you need is in the Participant Portal


- Call openings
- “How to” guides
- H2020 Online manual
- Work programmes 2016-2017
- Templates
- Reference documents (e.g. model grant agreement)
- Partnering platforms
- Submission platform
- Registering as an expert
- Helpdesk
- …..
General info

• How to read a call/topic (example):
  – Pillar 3: Societal challenges
    o Challenge 1: Health, well-being & demographic change
      ✤ Call name: Personalised Medicine / H2020-SC1-2016-2017
        ➢ Topic name: New therapies for chronic diseases / SC1-PM-09-2016
General info

• Types of action (collaborative projects)
  – Depending on the call and the maturity of the technology/concept (TRL)
    • Research and Innovation Action (RIA)
    • Innovation Action (IA)
    • Coordination and Support Action (CSA)
  – Funding rate at 100% for non-profit organisations

• Typical proposal structure & evaluation criteria
  – Excellence (science: objectives, concept, methodology)
  – Impact (measurable & realistic, measures to maximise it)
  – Implementation (work description, time plan, operational capacity)
General info

• National Contact Points
  – Support in proposal preparation
  – Partnering possibilities
    • NCP Brussels  [www.ncpbrussels.be](http://www.ncpbrussels.be)
    • NCP Wallonia  [www.ncpwallonie.be](http://www.ncpwallonie.be)
    • NCP FNRS  [www.ncp.frs-fnrs.be](http://www.ncp.frs-fnrs.be)
    • NCP BELSPO  [www.eurofed.stis.belspo.be](http://www.eurofed.stis.belspo.be)

• Financial support ("Prime")
  – FNRS
  – Brussels Region (Innoviris)
  – Walloon Region (DG 06)
Funding opportunities - Overview

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Partnerships in the European Research Area (ERA)

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<tr>
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- ✔ Institutional PPPs (article 187 of the TFEU)
- ✔ Own legal entity in form of a Joint Undertaking (JU)
- ✔ Follow the rules of H2020
- ✔ Manage own calls (appearing in Participant Portal)
- ✔ Budget totally earmarked for the entire duration
Partnerships in the European Research Area (ERA)

**Partnerships**

- **PPP** (Public/Private Partnership)
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  - **Article 185 Initiatives**
  - **European Research Area Networks (ERA-NET)**

- Electronic Components and Systems for European (ECSEL) *
  - [www.ecsel-ju.eu](http://www.ecsel-ju.eu)

- Bio-Based Industries (BBI)
  - [www.bbi-europe.eu](http://www.bbi-europe.eu)

- Innovative Medicine Initiative 2 (IMI2)
  - [www.imi.europa.eu](http://www.imi.europa.eu)

- Fuel Cells and Hydrogen 2 (FCH2)
  - [www.fch.europa.eu](http://www.fch.europa.eu)

- Clean Sky 2 (CS2)
  - [www.cleansky.eu](http://www.cleansky.eu)

- Shift²Rail (S2R)
  - [www.shift2rail.org](http://www.shift2rail.org)

- Single European Sky Air Traffic Management Research (SESAR) *
  - [www.sesarju.eu](http://www.sesarju.eu)
## Partnerships in the European Research Area (ERA)

### Partnerships

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- Ad-hoc contractual agreements
- No stand-alone legal entity
- Follow the rules of H2020
- Calls managed by EC (appearing in Participant Portal)
- Budget not entirely earmarked
Partnerships in the European Research Area (ERA)

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<tr>
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<tr>
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<td>Sustainable Process Industries (SPIRE)</td>
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<td>Advanced 5G Network Infrastructure (5G)</td>
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<td>European Green Vehicles Initiative (EGVI)</td>
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<td>Robotics (SPARC)</td>
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<td>Energy-Efficient Buildings (EeB)</td>
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<td>Factories of the Future (FoF)</td>
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<td>High Performance Computing (HPC)</td>
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<td>Photonics</td>
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- www.spire2030.eu
- www.5g-ppp.eu
- www.egvi.eu
- www.sparc-robotics.eu
- www.e2b-ei.eu
- www.effra.eu
- www.etp4hpc.eu
- www.photonics21.org
- www.bdva.eu
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- Initiatives of a long-term perspective
- Addressing major European societal challenges
- Pooling & aligning research in Member States
- Focusing on institutionalised funding
- Developing a common Strategic Research Agenda
- Opening joint calls
- National funding rules apply
Partnerships in the European Research Area (ERA)

Partnerships

PPP
(Public/Private Partnership)

Joint Technology Initiative (JTI)

Contractual PPP (cPPP)

P2P
(Public/Public Partnership)

Joint Programming Initiatives (JPI)

Article 185 Initiatives

European Research Area Networks (ERA-NET)

- Neurodegenerative Diseases (JPND)
- Agriculture, Food Security and Climate Change (FACCE)
- A Healthy Diet for a Healthy Life (HDHL)
- Cultural Heritage and Global Change (JPICH)
- Urban Europe (JPIUE)
- Connecting Climate Knowledge for Europe (JPI Climate)
- More Years, Better Lives (MYBL)
- Antimicrobial Resistance (JPIAMR)
- Water Challenges for a Changing World (Water JPI)
- Healthy and Productive Seas and Oceans (JPI Oceans)

www.neurodegenerationresearch.eu
www.faccejpi.com
www.healthydietforhealthylife.eu
www.jpi-culturalheritage.eu
www.jpi-urbaneurope.eu
www.jpi-climate.eu
www.jp-demographic.eu
www.jpiamr.eu
www.waterjpi.eu
www.jpi-oceans.eu
Partnerships in the European Research Area (ERA)

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- Foreseen in article 185 of the TFEU
- Involving EU in joint research programmes of Member States (organisation, funding, implementation)
Partnerships in the European Research Area (ERA)

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- **Active and Assisted Living 2 (AAL2)**
  - www.aal-europe.eu
- **Eurostars 2** * → see also EUREKA instrument
  - www.eurostars-eureka.eu
- **European and Developing Countries Clinical Trials Partnership 2 (EDCTP)**
  - www.edctp.org
- **European Metrology Programme for Innovation and Research (EMPIR)**
  - www.msu.euramet.org
Partnerships in the European Research Area (ERA)

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- European Research Area Networks (ERA-NET)

- Avoiding fragmentation and overlapping in transnational & regional research
- Theme-specific research programmes (smaller scale initiatives)
- Linked or not to JPI
- H2020: ERA-NET Cofund (one compulsory joint call with EU top-up funding)
  - Merger of ERA-NET and ERA-NET+ from FP7 (some still on going)
- National/Regional funding rules apply
Partnerships in the European Research Area (ERA)

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European Research Area Networks (ERA-NET)

- **Demo-Wind2**
- **M-ERA.NET 2**
- **PhotonicSensing**
- **ENSUFE**
- **ERA-HDHL**
- **ERA4CS**

- **Neuron COFUND**
- **SusAn**
- **WaterWorks2015**
- **JPI-EC-AMR**
- **ERA-CVD**
- **FACCE-SURPLUS**

- **WaterWorks2014**
- **DemoWind**
- **SmartGridPlus**
- **ERACoSysMed**
- **HERA JRP UP**
- **TRANSCAN-2**

**ERA-NET COFUND** actions where Belgium is active

For an overview of existing & forthcoming ERA-NETs visit: [www.era-learn.eu](http://www.era-learn.eu)
Partnerships in the European Research Area (ERA)

<table>
<thead>
<tr>
<th></th>
<th>FNRS</th>
<th>Walloon Region</th>
<th>Brussels Region</th>
<th>Federal</th>
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<tbody>
<tr>
<td>JTI</td>
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<td>ECSEL</td>
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<tr>
<td>JPI</td>
<td>All</td>
<td>FACCE, JPIUE</td>
<td>JPIUE</td>
<td>Climate, Oceans</td>
</tr>
<tr>
<td>Art. 185</td>
<td>-</td>
<td>AAL, Eurostars2</td>
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<td>EMPIR, EDCTP</td>
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* ERA-NET COFUND, ERA-NET*, ERA-NET
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- Other EU (COST, EUREKA, LIFE+, INTERREG, ...)
- International (NIH, JDRF, WWCR, ...)
- Tenders
- ....
Other EU (examples)

- 3rd Health Programme
- Consumer Programme
- Justice Programme
- Research Fund for Coal and Steel

✓ Available in Participant Portal
Other EU (examples)

**COST**
Cooperation in Science & Technology
- Funding of networking activities
  - Ideal for building / maintaining consortia
- Managed through National Coordinators (CNC)
  - Two representatives per country

**EUREKA**
Innovation across borders
- Inter-governmental network
  - Brussels & Wallonia participating
- Supports market-oriented R&D&I projects

**Network projects**
**Clusters**
**Eurostars 2**
**Umbrellas**
Other EU (examples)

**LIFE+**
Programme for the Environment and Climate Action

- Financial instrument for the Environment

**Nature and Biodiversity / Environment / Climate action**
- Traditional projects
- Preparatory projects
- Integrated projects
- Technical assistance projects
- Capacity building projects

**INTERREG EUROPE**
- Supporting governments develop policy
  - Interregional cooperation projects
  - Policy learning platforms

**Research & Innovation**
- SME Competitiveness
- Environment & Resource Efficiency
- Low-carbon economy
Funding opportunities - Overview

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- Tenders
Varying conditions for participation, institutional registration often required
Funding opportunities - Overview

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- Tenders
Tenders

• Public procurement
  – Directorates-General
  – European Network/Agencies (ESPON, EUMETSAT,...)
  – Available in TED Home (Tenders Electronic Daily)
  – Different administrative requirements than H2020
Funding opportunities - Overview

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- **PPP (JTI-JU, cPPP)**
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...