

## CAREER DAY PROGRAMME, 15<sup>th</sup> OF NOVEMBER

8:00      **Registration**

### Opening Session – Auditorium

8:45      **Welcome:**

ENABLE Organizers

9:00      Dr. Ana Arana Antelo,  
European Commission, DG Research & Innovation

9:10      **Representatives of organizing institutes**

Prof Joan J. Guinovart - IRB Barcelona

Dr. Guillermo Montoya – CPR

Prof. René Bindels- RIMLS

Prof. Myriam Alcalay – SEMM

Dr. Guzmán Sánchez- Scienseed

9:35      **The skills nobody teaches you**

HFP Consulting

9:50      **Pitch your Company 1**

MDPI - SIGMA - IEB - RESPORA - MIND THE BYTE

Opportunity fair (Pati de Columnes and 8 <sup>th</sup> floor)	Career chats (7 <sup>th</sup> floor)	Workshops (6 <sup>th</sup> floor)
10:20	<i>Coffee break</i>	10:45 <b>Workshops</b>
10:50	11:30	<i>Coffee break indicated by trainers (Room 65)</i>
13:30	<b>Lunch</b> (8 <sup>th</sup> floor)	13:45 <b>Lunch</b> (Pati de Columnes)

### Plenary Session – Auditorium

14:45      **Horizon 2020: What's in there for young researchers?-** David Pina,  
European Commission

15:00      **Pitch your Company 2**

MERCK VENTURES - ASPHALION- HPC NOW - BIOCAT – ASTRAZENECA

Opportunity fair (Pati de Columnes and 8 <sup>th</sup> floor)	Career chats (7 <sup>th</sup> floor)	Workshops (6 <sup>th</sup> floor)
15:30	16:00	<b>Workshops</b>
17:00	<i>Coffee break</i>	15:45 <i>Coffee break indicated by trainers (Room 65)</i>
17:30	17:30	
18:45	<i>End of the Career Day</i>	

## CAREER CHATS, 7<sup>th</sup> FLOOR

	Room 1	Room 2	Room 3	Room 4	Room 5
11:30	Robert Soliva	David Pina	Nana Aba Williams	Cristina Arimany-Nardi	
12:00	Robert Soliva	David Pina	Oscar Flores	Ignacio Bermúdez	
12:30	Nana Aba Williams	Cristina Arimany-Nardi	Oscar Flores	Ignacio Bermúdez	
13:00	Joan Guinovart	Myriam Alcalay	René Bindels	Guillermo Montoya	Guzmán Sánchez
	Room 1	Room 2	Room 3	Room 4	Room 5
16:00	Nuno Alves	David Pina	Vicente Tur	Paloma Arias	
16:30	Nuno Alves	David Pina	Vicente Tur	Paloma Arias	
17:30	Anna Serra	Daniela Ruffell	Laia Crespo	Laura Rodriguez	
18:00	Anna Serra	Daniela Ruffell	Laia Crespo	Laura Rodriguez	

## WORKSHOPS, 6<sup>th</sup> FLOOR

	Room 1	Room 2	Room 3	Room 4
10:45	What's next	Do I have a potential discovery? Intellectual Property Valuation and Knowledge Transfer	Scientific writing	Transferable skills
	<i>Coffee break indicated by trainers (Room 65)</i>			
	Room 1	Room 2	Room 3	Room 4
15:45	Set your goals and Time management	Am I thinking about a Biotech-based Company? Business Planning and Innovation in life sciences	Science communication and public engagement	How to prepare for a job interview
	<i>Coffee break indicated by trainers (Room 65)</i>			

## SCIENTIFIC PROGRAMME, 16<sup>th</sup> OF NOVEMBER

### Session 1 – Auditorium *(Chair: IRB Barcelona)*

#### Building the Foundations of Biology: Synthetic and Cellular Research

9:00 Welcome

9:10 **Prof. Martin Hanczyc, University of Trento (Italy)**  
**Droplet-based protocell models with embedded metabolism**

10:00 Dr. Anne-Sophie Huart, EMBL (Heidelberg, Germany)  
Molecular mechanisms behind DAPK regulation:  
How phosphorylation switches work

10:15 Dr. Laurent Ladépêche, ICFO-Institut de Ciències Fotòniques  
(Barcelona, Spain)  
Nanoscale redistribution of NMDA receptors subunits in anti-  
NMDA receptor autoimmune encephalitis

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10:30 ***Coffee Break*** *(Pati de Columnes)*

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11:00 **Prof. Elaine Fuchs, The Rockefeller University (NY, USA)**  
**The cancer stem cell niche of squamous cell carcinomas:  
Biology and impact for therapeutics**

11:50 Miriam Contreras, IBUB, The Institute of Biomedicine  
(Barcelona, Spain)  
Definition and validation of targets associated with resistance-  
associated metabolic reprogramming in hematological  
malignancies

12:05 Ariadna Navarro-Aragall, Institute of Ophthalmology, UCL  
(London, United Kingdom)  
Combining innovative genetic and imaging approaches to  
define mechanisms regulating aortic arch development

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12:30 **Master Classes – session 1** (6<sup>th</sup>/7<sup>th</sup> floor rooms)

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13:30 **Lunch** (8<sup>th</sup> floor)

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## SCIENTIFIC PROGRAMME, 16<sup>th</sup> OF NOVEMBER

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### Session 2 – Auditorium *(Chair: CPR)*

The OMICS Revolution: Understanding the Layers of Life

- 14:30 **Prof. Johan Auwerx, Ecole Polytechnique (Lausanne, Switzerland)**  
**Systems genetics approaches to explore mitochondria and aging**
- 15:20 Guido Van Mierlo, RIMLS (Nijmegen, the Netherlands)  
Integrative proteomics reveals a protective role of PRC2 for the ground state pluripotent epigenome
- 15:35 Dr. Mireya Plass, Max-Delbrück Center for Molecular Medicine (Berlin, Germany)  
Cell type atlas and lineage tree reconstruction of whole adult animals by single cell sequencing
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15:50 ***Coffee Break (Pati de Columnes)***

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- 16:20 **Prof. Wolf Reik, Babraham Institute (Cambridge, UK)**  
**Epigenetics programming in development and ageing**
- 17:10 Nicolò Caporale, European Institute of Oncology (Milan, Italy)  
From cohorts to organoids: Dose-response patterns of endocrine disruption in human neurodevelopmental models
- 17:25 Flavia Greiffo, Ludwig Maximilians-Universität Munich (Germany)  
Quantitative proteomics reveals novel fibrotic networks of myeloid-derived suppressor cell and monocytes in IPF
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17:40-19:00 **POSTER SESSION 1 *(Pati de Columnes)***

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20:00 ***TAPAS WITH SPEAKERS (Piscolabis Rambla Catalunya)***

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## SCIENTIFIC PROGRAMME, 17<sup>th</sup> OF NOVEMBER

### Session 3 – Auditorium (*Chair: RIMLS*)

#### In Vitro to in Vivo: Modeling Life in 3D

9:00 **Prof. Kristina Havas Cavalletti, IFOM (Milan, Italy)**  
**Metabolism and Therapeutics Resistance in Breast Cancer**

09:50 Dr. Juliette Mouriès, European Institute of Oncology (Milan, Italy)  
Gut vascular barrier disruption precedes the onset of type 2 diabetes

10:05 Fernando Sotillo, IRB Barcelona (Spain)  
Metabolic dysfunction drives immune complications in Lysinuric Protein Intolerance mouse model

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10:20 ***Coffee Break (Pati de Columnes)***

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11:00 **Prof. Kim Jensen, BRIC (Copenhagen, Denmark)**  
**At the origin of intestinal stem cells and beyond**

11:50 Paolo Falvo, European Institute of Oncology (Milan, Italy)  
Novel role of obesity in the development of acute promyelocytic leukaemia

12:05 Jordi Badia-Ramentol, IRB Barcelona (Spain)  
Targeting the TGF- $\beta$  pathway of cancer-associated fibroblasts in colorectal cancer metastasis

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12:30 **Master Classes – session 2 (6<sup>th</sup>/7<sup>th</sup> floor rooms)**

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13:30 ***Lunch (8<sup>th</sup> floor)***

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## SCIENTIFIC PROGRAMME, 17<sup>th</sup> OF NOVEMBER

### Session 4 – Auditorium (*Chair: SEMM*)

#### From Discovery to Cure: The Future of Therapeutics

- 14:30 **Prof. Eytan Ruppín, University of Maryland CBCB (USA)**  
**Genome wide identification of genes mediating cancer resistance to targeted and immune therapy**
- 15:20 Mariateresa Zanobio, University of Naples Federico II (Italy)  
miR27a acts as tumor suppressor in RS4;11 leukaemia cell line by targeting 14-3-3 $\sigma$  AF4 and MLL-AF4 chimera
- 15:35 Anna Grebinyk, Wildau Technical University of Applied Sciences (Wildau, Germany)  
LEDs as excitation source for fullerene C<sub>60</sub> photodynamic cancer therapy

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15:50 **Coffee Break** (*Pati de Columnes*)

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- 16:20 **Prof. Christian Brander, IrsiCaixa (Barcelona, Spain)**  
**Predictors of HIV control and their use for HIV vaccine design**
- 17:10 Rita Ribeiro, University of Leuven (Belgium)  
MRI of new USPIO-labeled pancreatic islets for real-time in vivo monitoring of transplanted islets in a diabetic rat model
- 17:25 Sofía Fernández-de-Retana, Vall d'Hebron Research Institute (Barcelona, Spain)  
Characterization of ApoJ-reconstituted high-density lipoprotein (rHDL) nanodisc for the potential treatment of cerebral  $\beta$ -amyloidosis

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17:40 **POSTER SESSION 2** (*Pati de Columnes*)

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19:00 *Closing remarks and awards (Auditorium)*

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