

**Programme Day 1**  
**October 11<sup>th</sup>**  
**2:15 pm - 7:00 pm**

2.15 – 2.30 pm

**Welcome and introduction**

Elena Cattaneo (University of Milan)

**Theme 1: Empowering cell replacement and cell reprogramming through Single-cell analysis – what have we learnt and what comes next?**

2:30 – 3:00 pm

**Overview on the literature**

Ernest Arenas – theme coordinator - talk given remotely

3:00 – 3:20 pm

**Focus 1 - How single cell profiling *in vivo* can drive *in vitro* stem cell modeling**

Vittoria Bocchi (University of Milan)

3:20 – 3:40 pm

**Focus 2 - Refining dopaminergic subtype specification and graft composition for DA cell replacement in PD**

Alessandro Fiorenzano (Lund University)

3:40 – 4:00 pm

**Focus 3 - RNA sequencing cartography of the ventral midbrain lineage and its utility for cellular therapeutics**

Jonathan Niclis (Novo Nordisk) - talk given remotely

4:00 – 4:15 pm

**Theme 1 Discussion**

4:15 – 4:45 Coffee Break

**Theme 2: Making new connections, what the cortex can teach us about cell replacement in neurodegenerative disorders?**

4:45 – 5:45 pm

**Overview on the literature**

by Pierre Vanderhaegen (VIB) – theme coordinator

5:45 – 6:05 pm

**Focus 1 - Cortical circuit analysis tools to study transplanted human neurons**

Ben Vermaercke (VIB)

6:05 – 6:25 pm

**Focus 2 - Generating human basal forebrain cholinergic neurons as a potential treatment for dementia**

Alison Salvador (Copenhagen University)

6:25 – 6:45 pm

**Focus 3 - General rules of direct neuronal reprogramming - the influence of starter cell identity and fate competition**

Bob Hersbach (Helmholtz Zentrum München)

6:45 – 7:00 pm

**Theme 2 Discussion**

**To follow:**

Aperitif, short walk and dinner

**11-12**  
**October**  
**2021**

**NSC**  
**Reconstruct**  
**Focus**  
**Meeting**

Hotel Nazionale,  
Piazza Montecitorio 131, Rome

The meeting will be held in  
Sala Capranichetta

**NSC-Reconstruct**

NSC-Reconstruct (01/2020 - 12/2023) is one of the 14 projects awarded in the European Union competitive call for proposals "Regenerative medicine: from new insights to new applications" under the current framework program for research of the European Union, Horizon2020 - Grant Agreement 874758.



European  
Commission

Horizon 2020  
European Union funding  
for Research & Innovation

**Programme Day 2**  
**October 12<sup>th</sup>**  
**9:00 am - 3.30 pm**

**Theme 3: Exploring graft function: how looking back over the last decades can help moving forward**

**9:00 – 10:00 am**

**Overview on the literature**

Anders Björklund (Lund University) – theme coordinator

**10:00 – 10:20 am**

**Focus 1 – Strategies to investigate the functional impact of intrastriatal grafts in rodent HD models**

by Gabriela Gomez-Gonzalez (University of Turin)

**10:20 – 10:40 am**

**Focus 2 – Patient-specific treatments - protecting the graft from pathology**

by Malin Parmar (Lund University)

*10:40 – 11:00 am*

**Focus 3 – Strategies to improve the impact of cell therapy on non-motor symptoms in PD**

by Roger Barker (Cambridge University) - talk given remotely

**11:00 – 11:15 am**

**Theme 3 Discussion**

**11:15 – 11:45 am Coffee Break**

**Theme 4: can we shape a new-generation of grafts with enhanced function and integration assays for regenerative medicine?**

**11:45 – 12:45 pm**

**Overview on the literature**

Annalisa Buffo (University of Turin) – theme coordinator

**12.45 – 2.15 pm**

**Lunch**

**2:15 – 2:35 pm**

**Focus 1 - Novel methodologies for the assessment of graft potency, integration and transcriptomic profile *in situ***

Tomas Björklund (Lund University)

**2:35 – 2:55 pm**

**Focus 2- Assessing CNS integration of programmed neurons**

Oliver Brüstle (Bonn University)

**2:55 – 3:15 pm**

**Focus 3 - Shaping a new generation of grafts with adequate myelination**

Maria Martinez Reza (Helmholtz Zentrum München)

**3:15 – 3:30 pm**

**Theme 4 Discussion**

**3:30 pm**

**Final remarks and end of the meeting**

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