

Molecular Mechanisms in Tissue Degeneration and Regeneration

Buenos Aires, Argentina
1-3 October, 2015

Fundación Instituto Leloir
Av. Patricias Argentinas 435, CABA

Thursday, October 1, 2015

12.00 h Registration

14.00 h Welcome Addresses
Chairman: Francisco E. Baralle (Trieste)
Lino Barañao. Minister of Science, Technology and Productive Innovation. Argentina.
José M. Kenny. Scientific Attaché at the Italian Embassy in Buenos Aires
Águeda Suarez Porto de Menvielle. National Director of International Relations of Ministry of Science, Technology and Productive Innovation.
Mauro Giacca, director General, ICGEB

First Session:

From Degeneration to Therapy

Chairpersons: Alberto Crottogini (Buenos Aires) and Christine Vande Velde (Montreal)

14.30-15.00 h **Human 3D heart muscles for improved in vitro testing and cardiac repair** - Thomas Eschenhagen (Hamburg)

15.00-15.30 h **Generating clinical grade glial cells and engineered cells for therapy** - Mahendra Rao (Washington)

15.30-16.00 h **Redox signaling, oxidative stress and redox-based therapeutics** - Rafael Radi (Montevideo)

16.00-16.30 h *Coffee Break*

16.30-17.00 h **Patient-specific and isogenic iPSC lines for screen and therapy for Parkinson's disease** - Xianmin Zeng (Novato CA)

17.00-17.30 h **ALS and FTD: an expanding universe** - Vincenzo Silani (Milan)

17.30-18.00 h **The identification of modifiers of amyotrophic lateral sclerosis** - Wim Robberecht (Leuven)

18.00-18.30 h **Cooperative function of TDP43 and other hnRNPs in neurodegeneration** - Emanuele Buratti (Trieste)

18.30 h *Welcome cocktail*

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Friday, October 2, 2015

Second Session:

Cardiovascular Repair and Regeneration

Chairpersons: Rafael Radi (Montevideo) and Thomas Eschenhagen (Hamburg)

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| 09.00-09.30 h | Genome editing and targeted gene therapy for heart failure - Roger J. Hajjar (New York) |
| 09.30-10.00 h | Gene therapy for inherited pediatric cardiomyopathy - Lucie Carrier (Hamburg) |
| 10.00-10.20 h | Genetically modified stem cells for cardiac regeneration - Alberto Crottogini (Buenos Aires) |
| 10.20-10.40 h | Analysis of the microRNAs involved in early mesoderm and cardiac progenitor cells derived from pluripotent stem cells - Santiago Miriuka (Buenos Aires) |
| 10.40-11.10 h | <i>Coffee Break</i> |
| 11.10-11.40 h | MicroRNAs and secreted factors for cardiac regeneration - Mauro Giacca (Trieste) |
| 11.40-12.10 h | Disease modeling and patient-guided drug development - Mark Mercola (San Diego) |
| 12.10-12.40 h | Noncoding RNAs in cardiac homeostasis and regeneration - Thierry Pedrazzini (Lausanne) |
| 12.40-13.10 h | Engineered epicardium and cardiac regeneration - Pilar Ruiz Lozano (San Francisco) |
| 13.10-14.30 h | <i>Lunch</i> |
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Third Session:

Regeneration in the Nervous System

Chairpersons: Win Robberecht (Leuven) and Gustavo Sevlever (Buenos Aires)

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- 14.30-15.00 h **ER proteostasis disturbances in neurodegenerative diseases** - Claudio Hetz (Santiago)
- 15.00-15.30 h **TDP 43 aggregation, aging and ALS onset** - Francisco E. Baralle (Trieste)
- 15.30-15.45 h **Short talk: A novel model of cortical neuroinflammation as an approach for addressing the pathology of the progressive forms of multiple sclerosis** – Carina Ferrari (Buenos Aires)
- 15.45-16.00 h **Short talk: Neuronal vulnerability to human amyloid peptides in Drosophila melanogaster** – M. Silvina Marcora (Buenos Aires)
- 16.00-16.30 h **Stress and ALS: the importance of RNA granules** - Christine Vande Velde (Montreal)
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- 16.30-17.00 h *Coffee break*
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- 17.00-17.30 h **Conditional mouse models of TDP-43 proteinopathies** - Lionel Muller Igaz (Buenos Aires)
- 17.30-18.00 h **RNA transfer from glia to neurons enhance axonal regeneration** - Felipe A. Court (Santiago)
- 18.00-18.15 h **Short talk: The role of the CRL4/Cdt2 ubiquitin ligase in the control of cell cycle exit and differentiation** – Mario Rossi (Buenos Aires)
- 18.15-18.30 h **Short talk: Embryonic neuronal diversity: the specification of spinal cord central canal neurons** - Daniela Di Bella (Buenos Aires)
- 18.30-19.00 h **Role of melatonin in CNS inflammation** - Mauricio Farez (Buenos Aires)
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Saturday, October 3, 2015

Fourth Session:

Stem cells, Regeneration and Rejuvenation

Chairpersons: Juana Pasquini (Buenos Aires) and Mark Mercola (San Diego)

09.00-09.30 h	Skeletal stem cells - Paolo Bianco (Rome)
09.30-10.00 h	Epithelial stem cells and regenerative medicine - Michele De Luca (Modena)
10.00-10.30 h	Cellular therapies for neurological diseases - Rosalia Mendez Otero (Rio de Janeiro)
10.30-10.45 h	Short talk: Heart repair with mesenchymal stromal cells overexpressing VEGF - Paola Locatelli (Buenos Aires)
10.45-11.15 h	<i>Coffee Break</i>
11.15-11.45 h	New molecular pathways of the aging myocardium - Francesco Loffredo (Trieste)
11.45-12.15 h	IPS cells and neurodegeneration. Two for tango, but enough...? - Gustavo Sevlever (Buenos Aires)
12.15-12.45 h	Using stem cells to treat and model neurodegenerative diseases - Fernando Pitossi (Buenos Aires)
12.45 h	Meeting Closure Francisco E. Baralle (Trieste) Fernando Pitossi (Buenos Aires)