

MIA-Portugal

Events Report M36

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This document describes MIA-Portugal M36 Event.

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1. Introduction:

This report describes the events organized by MIA-Portugal and those in which the Institute participated.

This document addresses the activity that occurred between M24 and M36 of the MIA-Portugal project implementation.















1. MIA-Portugal Events

1.1 MIA-Portugal Ageing Seminars

The Institute launched an online series of seminars, the *MIA-Portugal Ageing Seminar Series,* focused on the biology of ageing, targeted at the Coimbra ageing scientific community.

Four seminars were organized in 2022:

- «Novel senolytic with mitochondrial targeting prevents premature ageing caused by radiotherapy in a mouse model»;
- «Cardiovascular ageing: modeling and therapies»;
- «Heterogeneity in cellular senescence: from mechanisms to interventions»:
- «Cell senescence, neuroinflammation and cognitive decline».

Dates: 24th January, 3Rd February, 5th May, 7th July

Nature: Scientific events | Online - Remote

Speakers: Satomi Miwa, Lino Ferreira, Marco Demaria, Thomas von

Zglinicki

Participants: 215 (Total) | Mainly Researchers and post-graduate students.

Communication & Dissemination: MIA-Portugal website, social media and UC channels, newsletter.















1.2 AHA Mini-Symposium: Stem cells in ageing and metabolism (co-organization MIA-Portugal)

The event gathered top-level specialists from European and US research centres and provided deep knowledge on this topic.

Leading figures in ageing research presented research findings and projects related to the application of stem cell therapies to ageing-related diseases.



Organization: AHA – Alliance for Healthy Aging & MIA-Portugal

Date: 4th April 2022 | Programme

Nature: Scientific | On site (Hotel Dona Inês – Coimbra)

Participants: 35

Speakers: 10

Communication & Dissemination: MIA-Portugal website, social media and UC channels, Mass Media.















Programmme:

AHA Mini-Symposium: Stem cells in ageing and metabolism

9:00 Opening Session

Thomas von Zglinicki - Professor of Cell Gerontology, Newcastle University

Cláudia Cavadas - Vice-Rector of University of Coimbra

Session 1

Chairperson: Satomi Miwa - Newcastle University

9:30-10:10 Moustapha Kassem (University of Southern Denmark) 'Accelerated Aging of skeletal stem cells in metabolic bone diseases: contribution to bone fragility'

10:10-10:50 Lino Ferreira (University of Coimbra) 'Cardiovascular ageing and stem cells'

10:50-11:20 Coffee break

11:20-12:00 Eugene Berezikov (Eriba, University of Groningen) 'Stem cells, regeneration and aging in the flatworm Macrostomum lignano'

12:00-12:40 Laura Greaves (Newcastle University) 'MtDNA mutation and stem cell function'

12:40-14:30 Lunch Break

Session 2

Chairperson: Marco Demaria - University of Groningen

14:30-15:10 Paul Robbins (University of Minnesota) 'Stem cell extracellular vesicles as senotherapeutics'

15:10-15:50 A. Cristina Rego (University of Coimbra) 'Mitochondrial deregulation in stem cell models of Huntington's disease'

15:50-16:20 Coffee break

16:20-17:00 Luis Almeida (University of Coimbra) 'Gene and stem cell therapies'

17:00-17:40 João Ramalho Santos (University of Coimbra) 'Pluripotency, Metabolism and aging'

17:40-19:00 Poster session















1.3 8th European Synapse Meeting

(co-organization MIA-Portugal)

The meeting brought together junior and senior neuroscientists working on synapses and provided a forum for new directions and ideas in studying synapses in the healthy and diseased brain. The event convened EU and other international scientists and included lectures, selected talks and poster presentations.

The program provided multiple opportunities for interaction, during the poster sessions, offering an opportunity for disseminating the latest advances and for cross-disciplinary discussion and collaboration.

Organization: CNC - Center for Neuroscience and Cell Biology, University of Coimbra, IMM – Instituto de Medicina Molecular, MIA-Portugal

Date: 20th and 21st October 2022

Nature: Scientific | On site (Convento de São Francisco - Coimbra)

Participants: 166

Speakers: 25

Communication & Dissemination: MIA-Portugal website, social media and UC channels, Mass Media, sponsors and organizing institutions communication channels.















Programme

	October 20th 2022
08:30	Registration
09:30	Opening session
	Luis Pereira de Almeida – President of CNC-Center for Neuroscience and Cell Biology
09:45	Ana Luísa Carvalho – Organizing Committee Keynote Lecture 1: Gordon Fishell
03.13	Havard Medical School, USA
	The intimate dependence and remarkable precision of cortical interneuron-pyramidal cell connectivity
	Chair: Carlos B Duarte
10:45	Coffee Break (sponsored by ICONEUS)
11:05	Company Techbites
	Zsolt Lenkei – INSERM, Paris, France
44.45	Drug-induced dysconnectivity patterns in the awake mouse brain
11:15	S1: Neuronal and Synaptic Development Chairs: Matthijs Verhage & Paulo Pinheiro
	Invited speakers
11:15	Beatriz Rico – King's College London, UK
	Mechanisms orchestrating the assembly of interneuron-pyramidal cell networks
11:45	Britta Eickholt – Charite Berlin, Germany
12.15	Coordination of synaptic (stress) signaling and actin filament dynamics
12:15	Sabine Levi – Fer à Moulin Institute, Sorbonne University, France Stabilization and elimination of synapses by the adenosine signaling pathway
	Short talks
12:45	Ayca Olcay – Polish Academy of Sciences, Poznań
	Analysis of synapse-enriched circular RNAs for loss-of-function studies in primary cortical neurons
13:00	Sébastien Delhaye –CNRS/Université Côte d'Azur, France
	Phosphodiesterase 2A is a Goldilocks protein involved in neurodevelopment
13:15	Lunch and Posters
16:00	S2: Synaptic Function
	Chairs: Rodrigo Cunha & Uri Ashery
16:00	Invited speakers Andrea Parhavis Italian Institute of Technology Italy (anline)
16:00	Andrea Barberis – Italian Institute of Technology, Italy [online] Short-range interaction between excitatory and inhibitory synapses in dendrites of hippocampal pyramidal neurons
16:30	Ira Milosevic – MIA Portugal, University of Coimbra Coordination of synaptic vesicle acidification and trafficking by rabconnectin-3a
17:00	Olivier Thoumine – University of Bordeaux, France
	Role of the adhesion molecule neuroligin-1 in synapse differentiation: membrane dynamics, phosphotyrosine signalling, and regulation by cis-binders
17:30	Thomas Blanpied – University of Maryland School of Medicine, USA
	Subunit-specific NMDA receptor nanoarchitecture Short talk
18:00	Domenico Azarnia Tehran – Leibniz- FMP, Berlin, Germany
10.00	Selective Endocytosis of Ca2+-permeable AMPARs by the Alzheimer's Disease Risk Factor CALM Bidirectionally Controls Synaptic Plasticity
	Company Techbites
18:15	Johny Pires – Field Applications Scientist EMEA, Axion BioSystems
	Functional Analysis of Developing Neuronal Networks in a dish with Next Generation MEA



18:25 Posters + Wine and Cheese



Laura Machado – Sales Representative Portugal, ZEISS Research Microscopy Solutions

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18:20



October 21st 2022

09:00	S3: Neuronal-Glia Interactions
	Chair: Ana Sebastião
	Invited speakers
09:00	Klaus-Armin Nave – Max Planck Institute for Experimental Medicine, Göttingen, Germany
	Novel functions of oligodendrocytes in the neuronal circuitry
09:30	Nathalie Rouach – Centre Interdisciplinaire de Recherche en Biologie, Collège de France
	Astrocytes : guardians of critical period plasticity of the visual cortex
10:00	Paola Bezzi – University of Lausanne, Switzerland [online]
	Astrocytic VMAT2 in the developing prefrontal cortex is required for normal grooming behavior in mice
10:30	Short talks
10:30	Ana Beltran Arranz – King's College London, UK Glia-to-interneuron conversion in the postnatal mouse cortex
10:45	Maria Joana Pinto – Institut de Biologie de l'École Normale Supérieure (IBENS), Paris, France
10.43	Microglial TNFα orchestrates phosphorylation of synaptic proteins and controls homeostatic sleep
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11:00	Coffee Break
11:30	Keynote Lecture 2: Reinhard Jahn [<i>online</i>]
	Max Planck Institute, Göttingen, Germany
	Mechanisms of SNARE-mediated exocytosis in neurons Chair: Ira Milosevic
	Cridit: Ita Miliosevic
12:30	Lunch and Posters
14:20	Group photo
14:30	S4: Synaptic Circuits and Brain Function
14.50	Chair: Christophe Mulle & João Peça
	Invited speakers
14:30	Camilla Bellone – University of Genève, Switzerland
	The synaptic basis of social approach and avoidance behaviour
15:00	Rosa Cossart – Institute of Mediterranean Neurobiology, France
	From the synapse to the network: is the CA1 GABAergic synapse really inhibitory?
	Short talks
15:30	Nicolas Morgenstern – Institute of Molecular Medicine, University of Lisbon, Portugal
	Pyramidal tract neurons amplify excitation to the striatum through cholinergic interneurons
15:45	Rafael Almeida – Centre for Discovery Brain Sciences, University of Edinburgh, UK
	Non-synaptic axonal neurotransmission regulates myelinated circuit formation in vivo
16:00	Coffee Break
46.25	Provided to the control of Control Control of Control
16:25	Presentation International Society for Neurochemistry
16:30	S5: Synaptopathies (Supported by ISN)
	Chairs: Ana Luisa Carvalho & Àlex Bayés
	Invited speakers
16:30	Eleonora Palma – University of Roma La Sapienza, Italy
	Looking for an altered synaptic function in epilepsy
17:00	Laurent Groc – Interdisciplinary Institute for Neuroscience, University of Bordeaux, France
	Dysfunction of NMDA receptor trafficking in neuropsychiatric disorders
47.00	Paragraph that were affected with the
17:30	Peter Kind – University of Edinburgh, UK
	Cognitive and Behavioural Phenotypes in a rat model of SYNGAP1 Haploinsufficiency
18:00	Short talks Ludovic Tricoire – Sorbonne Université, Paris, France
10.00	Endovid Tricoire Solsoline Oniversite, Falis, France

















GRID1/GluD1 homozygous variants linked to intellectual disability and spastic paraplegia impair Glu1/5 receptor signaling and excitatory synapses

18:15 **Ângela S. Inácio** – Center for Neuroscience and Cell Biology, University of Coimbra, Portugal Aberrant hippocampal transmission and behavior in mice with a stargazin mutation linked to intellectual disability

18:30 Closure

Claudia Cavadas – Vice-Rector for Research, University of Coimbra **Best Communication Awards**:

2 Best Posters (sponsored by Axion BioSystems) Best Short Talk (supported by ISN)

19:30 Speakers' dinner













3- Other events

3.1 Science Communication events

- European Researchers Night - Coimbra 2022

Date: 30th of September 2022 | **Nature:** General public event, science communication event



MIA-Portugal researchers participated in this event, which took place in downtown Coimbra, Portugal. Scientists engaged with people of all ages, talking about ageing mechanisms and healthy ageing.

The public was challenged with quizzes on healthy ageing and young people learned about cell ageing through hands-on activities.













- FICA – Feira Internacional de Ciência, Oeiras (Portugal)

Date: 13th of October 2022 | **Nature:** General public event, science communication event.

MIA- Portugal researchers participated in FICA – Feira Internacional de Ciência (International Science Fair). In Oeiras (Portugal), scientists had the opportunity to exchange knowledge, with 13 to 15-year-olds, about the basic mechanisms of Ageing.

Date: 13th of October 2022 | **Nature:** General public event, science communication event.















3.2 - Participation in Events

- 1) 3rd Forum UK-PT Healthy Ageing | 15 march 2022 | Lisbon, Portugal | Societal event | 100 participants
- 2) III Congresso Internacional de Geriatria e Saúde Mental | 17 june 2022 | Mealhada, Portugal | Societal event | 200 Participants
- 3) Gordon Research Conference Autophagy in Stress| Development and Disease | Ventura, CA, USA | 20-25 March 2022 | Scientific event MIA-Portugal PI Nuno Raimundo oral communication: "Autophagosome Accumulation Triggers a Signaling Response That Modifies Organelle Homeostasis and Metabolism in ageing and disease".
- 4) CNC Center for Neuroscience and Cell Biology PhD Course "Metabolic and inflammatory drivers in age-related neurodegenerative diseases" | Coimbra, Portugal | 4-8 April 2022 | Scientific MIA-Portugal PI Nuno Raimundo lecture: Mitochondria-lysosome communication in age-related disease.
- 5) 56th Annual Scientific Meeting of the European Society for Clinical Investigation | Bari, Italy | 8-10 June 2022 | Scientific Event MIA-Portugal PI Nuno Raimundo invited speaker: "AMPK bosses organelles around to rewire cellular metabolism in ageing and disease".
- 6) Zagreb Spring Symposium of Applied Cardiovascular Physiology and Treatment | Zabreb, Croatia | 10-11 June 2022 | Scientific Event













MIA-Portugal PI Nuno Raimundo **Invited speaker:** "Mitochondrial dynamics in cardiovascular injury and ageing".

- 7) MSc program "Cell Biology (University of Coimbra) | Coimbra, Portugal | September 2022 | Scientific Event MIA-Portugal PI Nuno Raimundo lectures: "Mitochondrial Signaling in disease and ageing" and "Lysosomal Signaling in disease and ageing".
- 8) 12th Annual Alliance for Healthy Aging Conference | Minneapolis MN, USA | October 2022 | Scientific Event MIA Portugal PI, Nuno Raimundo, Invited speaker: "Mitochondrial malfunction engages lysosomes to modify cellular nutrient sensing".
- 9) Cell Symposium Multifaceted Mitochondria | 6-8 November 2022 | Scientific Event MIA Portugal PI, Nuno Raimundo.
- 10) MNS-2022 (Mediterranean Neuroscience Society Biannual meeting) | Dubrovnik, Croatia, May 29-Jun 2, 2022| Scientific Event MIA-Portugal PI, Ira Milosevic talk: «Towards improving synaptic transmission in the ageing brain».
- 11) EMBO Workshop Autophagy in brain health & disease | Sant Feliu, Spain | May 11-14, 2022 | Scientific Event MIA-Portugal PI, Ira Milosevic, talk: «Novel mechanisms of vertebrate v-ATPase activity regulation».
- **12) IUPS2022 (International Union of Physiological Sciences)** | Beijing, China (online talk) | May 7-11, 2022 | Scientific Event















MIA-Portugal PI, Ira Milosevic, talk: «Negative regulation of exocytosis by amisyn/STXBP6».

- Oxford, UK | Scientific Event
 MIA-Portugal PI, Ira Milosevic, talk: «Onset and progression of
 neurodegeneration in mammalian models for defective endocytosis.
- 14) 21st ISCCB symposium | Hamburg, Germany | July 7-12, 2022 | Scientific Event

 MIA-Portugal PI, Ira Milosevic, talk: «From chromaffin cells to neurons: Towards improving synaptic transmission in the brain

15) ISN-APSN 2022 | Honolulu, HI, USA | Aug 28 - Sep 2, 2022 | Scientifc Event
MIA-Portugal PI, Ira Milosevic talk: «PI(4,5)P₂-driven negative

undergoing neurodegeneration».

regulation of exocytosis».

- **16) 12th Annual Alliance for Healthy Aging Conference** | Minneapolis MN, USA | 13-14 October 2022 | Scientific Event MIA Portugal PI, Lino Ferreira.
- 17) RESET Ageing | Newscastle, UK | Sept 15-17, 2022 | Scientific Event MIA Portugal PI, Ira Milosevic, Talk: «Brain ageing, neurotransmission and neurodegeneration».
- 18) BSRA Annual meeting | Canterbury, UK | Sept 12-14, 2022 | Scientific Event













MIA-Portugal PI, Ira Milosevic, as the BSRA Board of Trustee member, coordinated the networking events.

- 19) HDBMB22 | Brela, Croatia | Sept 28-oct 1, 2022 | Scientific Event MIA-Portugal PI, Ira Milosevic talk: «Towards improving organelle acidification and synaptic vesicle filling».
- 20)SFB Symposium | Baltimore MD, USA| 1-2 November 2022 | Scientific Event

MIA-Portugal PI, Ira Milosevic, presenting: «Rabconnectin-3a is required for hearing by promoting synaptic vesicle reformation and otoferlin expression in auditory hair cells».

- 21) Conferência PT-MedGen Estratégia Nacional para a Medicina Genómica | Lisbon, Portugal | 3 November 2022 | Scientific Event MIA-Portugal Scientific Director, Manuel Santos, presenting: «Sequenciação e análise».
- 22) MEDICA Trade Fair | Dusseldorf, Germany | 14-17 November 2022 |
 Trade Event
- 23) ASCB Annual Meeting | Washington DC, USA| 3-7 December 2022 | Scientific Event
 MIA-Portugal PI, Nuno Raimundo.















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