

# INTERNATIONAL CONGRESS ON NEURODEGENERATIVE DISEASES

19 / 22  
SEPTEMBER  
2023



Auditorio EDGAR NEVILLE  
de la Diputación de Málaga  
C/ Pacífico, 54  
29004 • Málaga



NED

CENTRO DE INVESTIGACIÓN EN ENFERMEDADES NEURODEGENERATIVAS

Has been requested the accreditation from the **INTERNATIONAL CONGRESS ON NEURODEGENERATIVE DISEASES** of the Cien Foundation with the reference number; 57/108168.9/23 to the Commission for Continuing Training of Health Professions of the Community of Madrid.

XVII CIBERNED Scientific Forum

13:00 REGISTRATION AND POSTERS SET-UP

15:00 / 15:10 WELCOME AND INTRODUCTION

 AUDITORIO

15:10 / 17:10 SCIENTIFIC Session I

Chairperson:

*Adolfo López de Munain*

15:10 / 15:40 *Francisco Pan-Montojo, CIBERNED, Neurologische Klinik am Sorpesee, Sundem*

Using worm strategies to survive dessication as neuroprotective therapies for neurological diseases

15:40 / 16:10 *David Otaegui, CIBERNED, ISS Biodonostia*

Extracellular vesicles in neurodegeneration, more than a biomarker

16:10 / 16:40 *Manel Comabella, CIBERNED, Hospital Universitario Vall d'Hebron*

Prognostic biomarkers in multiple sclerosis

16:40 / 17:10 *Diego Clemente, CIBERNED, Hospital Nacional de Parapléjicos de Toledo*  
Clinical and therapeutic implications of myeloid-derived suppressor cells in multiple sclerosis

PARALLEL SESSION

15:00 / 15:05 WELCOME AND INTRODUCTION

 SALA FUENGIROLA - Edificio "La Térmica"

15:05 / 17:10 EADB Session

Chairperson:

*Jean Charles Lambert and Pascual Sánchez Juan,*

Institute Pasteur Lille/CIEN

15:05 / 15:20 *Olivier Quenez, CHU Rouen, University of Rouen Normandie*

CNV analysis based on exome data with replication in EADB

15:20 / 15:35 *Gaël Nicolas, CHU Rouen, VIB-UAntwerp Center for Molecular Neurology*

GWAS on EOAD patients

15:35 / 15:50 *Sven van der Lee, Amsterdam UMC*

CNV analysis

15:50 / 16:05 *Fahri Küçükali, VIB-UAntwerp Center for Molecular Neurology*

Update on TWAS

16:05 / 16:20 *Gonzalo Leguia Fauro, VIB-UAntwerp Center for Molecular Neurology*

Update on EADB GWAS lead variant interaction analysis

XVII CIBERNED Scientific Forum

PARALLEL SESSION

- 16:20 / 16:35** *Alex Salazar, Amsterdam UMC*  
“First findings in the long read sequencing data”
- 16:35 / 16:50** *Valentina Escott Price, Cardiff University*  
“Machine learning analysis”
- 16:50 / 17:10** *Shahram Bahrami, University of Oslo*  
“Update on the Polygenic Hazard Score and the Multimodal Hazard Score”

**17:10 / 17:40 COFFEE BREAK & POSTERS**

- 17:40 / 19:30 SCIENTIFIC Session II**  AUDITORIO  
Chairperson:  
*Teresa Iglesias*
- 17:40 / 18:05** *M. Estrella Fernández de Sevilla, CIBERNED, Instituto Cajal, CSIC,*  
*Young Investigator Award*  
“Insulin-like growth factor I mitigates post-traumatic stress by inhibiting AMP-kinase in orexin neurons”
- 18:05 / 18:30** *María Carmona-Iragui, CIBERNED, Hospital de la Santa Creu i Sant Pau,*  
*Young Clinical Investigator Award*  
“Diagnostic and prognostic performance and longitudinal changes in plasma neurofilament light chain concentrations in adults with Down syndrome in a cohort study”
- 18:30 / 19:00** *Pedro Gómez Gálvez, CIBERNED, IBIS, MRC Cambridge. UK*  
“From pixels to insights: exploring neurodegenerative diseases through image analysis approaches”
- 19:00 / 19:30** *Luzma García/Juan Luque, CIBERNED, Plataforma de desarrollo tecnológico*  
“La transferencia de conocimiento en CIBER: estrategia de futuro”

XVII CIBERNED Scientific Forum

PARALLEL SESSION

**17:40 / 19:30 EADB Session**



SALA FUENGIROLA - Edificio "La Térmica"

- 17:40 / 17:55** *Itziar de Rojas, Fundaciò ACE*  
“Optical mapping”
- 17:55 / 18:10** *Celine Bellenguez, Institute Pasteur Lille*  
“Global GWAS meta-analysis in Alzheimer’s disease”
- 18:10 / 18:25** *Julie Leborgne, Institute Pasteur Lille*  
“Chromosome X and risk of developing Alzheimer’s disease”
- 18:25 / 18:40** *Aude Nicolas, Institute Pasteur Lille*  
“Association of a genetic risk score across multi-ancestry”
- 18:40 / 18:55** *Benjamin Grenier-Boley, Institute Pasteur Lille*  
“Haplotype-genome wide association in EADB”
- 18:55 / 19:30** “Discussion about the Amsterdam Hub and the potential merge between EADB and ADES”  
*Jean Charles Lambert and Henne Holstege, Institute Pasteur Lille/Amsterdam UMC*

**XVII CIBERNED Scientific Forum**

**09:00 / 11:00**

**SCIENTIFIC Session III**

Late-breaking news/poster highlights

Chairperson:

*Miguel Medina*



- POSTER N.º 1.** *Ruth Benavides, CIBERNED, Cajal Institute*  
Alterations of pyramidal cells in Alzheimer disease
- POSTER N.º 2** *Marta Garo-Pascual, Centre for Biomedical Technology UPM, CIEN Foundation*  
Brain Signature of the Superagers of the Vallecas Project
- POSTER N.º 13** *Alfredo Miñano, CIBERNED, Institut de Neurociències UAB*  
Nr4a2 as a potential therapeutic target for Alzheimer's disease
- POSTER N.º 10** *Ana I. Rojo, CIBERNED, Instituto de Investigaciones Biomédicas CSIC-UAM*  
Defining the role of the NRF2 transcription factor in synaptic maintenance in Alzheimer's disease
- POSTER N.º 11** *Montse Solé, CIBERNED, Institut de Neurociències UAB*  
FAIM-L ameliorates synaptic impairment and cognitive deficits in a mouse model of Tau pathology
- POSTER N.º 9** *Albert Giralt, CIBERNED, Universitat de Barcelona*  
Tight control of in vivo reprogramming in principal hippocampal neurons prevents the progression of pathological processes in a mouse model of Alzheimer's disease
- POSTER N.º 6** *Minerva Martínez-Castillo, CIEN Foundation*  
Association between plasma proteomics and dementia neuropathology at autopsy
- POSTER N.º 5** *Lorena Blázquez, CIBERNED, Biodonostia Health Research Institute*  
A targeted RNA sequencing approach identifies differential usage of cryptic polyadenylation in Huntington's disease and other neurodegenerative disorders
- POSTER N.º 3** *Salomé Sirerol, CIBERNED, Universidad de Valencia*  
Microglia: friends or foes in PD?
- POSTER N.º 8** *Javier Palazuelo, CIBERNED, Universidad Complutense de Madrid*  
An essential role for cannabinoid CB1 receptors in modulating NG2 cells differentiation during myelination and during myelin repair

**XVII CIBERNED Scientific Forum**

- POSTER N.º 4** *Nozha Borjini, CIBERNED, Instituto de Biomedicina de Sevilla*  
Deciphering the role of microglia in Kufs disease/CLN4: Insights from transgenic mouse models expressing mutant forms of CSPα/DNAJC5
- POSTER N.º 12** *Assumpció Bosch, CIBERNED, Institut de Neurociències UAB*  
A Novel Gene Therapy Approach for ALS by Overexpressing the Pleiotropic Chronokine α-Klotho

PARALLEL SESSION

- 09:00 / 11:00** **EADB Session**  SALA FUENGIROLA - Edificio "La Térmica"
- 09:00 / 09:15** *Jesper Qvist Thomassen, Rigshospitalet - Copenhagen University Hospitalen*  
*"APOE stratified GWAS in Alzheimer's disease"*
- 09:15 / 09:30** *Jiao Luo, Rigshospitalet - Copenhagen University Hospitalen*  
*"Causality of modifiable risk factors and co-morbidities for dementia"*
- 09:30 / 10:00** *Elaheh Vojgani, University of Cologne*  
*"Elaheh and Parijat: Pathway analysis in Longitudinal data common and rare variants"*
- 10:00 / 10:15** *Luca Kleineidam, University of Cologne*  
*"Update on MCI GWAS"*
- 10:15 / 10:30** *Benton Davies, Illumina*  
*"Accelerate Biomarker Discovery with Illumina's Connected Software Solutions"*
- 10:30 / 10:45** *Rafael Campos Martin, University of Cologne*  
*"Epigenetics and biomarkers of cognition"*
- 10:45 / 11:00** *Victor Andrade Fuentes, University of Cologne*  
*"Mega PRS and cognitive decline, epigenetics"*

- 11:00 / 11:30** **COFFEE BREAK & POSTERS**

XVII CIBERNED Scientific Forum

<b>11:30 / 13:30</b>	<b>SCIENTIFIC Session IV</b>	 AUDITORIO
	Chairperson: <i>José Luis Labandeira</i>	
<b>11:30 / 12:00</b>	<i>Jon Infante, CIBERNED, Hospital Marqués de Valdecilla, Santander</i> “The search for biomarkers of premotor stages of LRRK2-associated Parkinson’s disease”	
<b>12:00 / 12:30</b>	<i>Pablo Mir, CIBERNED, Instituto de Biomedicina de Sevilla</i> “Peripheral inflammatory immune profile in Parkinson’s disease”	
<b>12:30 / 13:00</b>	<i>M.ª José Martí, CIBERNED, Instituto de Investigación Biomédica August Pi i Sunyer, Barcelona</i> “CSF biomarkers in atypical parkinsonism”	
<b>13:00 / 13:30</b>	<i>Miquel Vila, CIBERNED, Hospital Universitario Vall d’Hebron, Barcelona</i> “Neuronal vulnerability in Parkinson’s disease: beyond alpha-synuclein”	

PARALLEL SESSION

<b>11:30 / 13:30</b>	<b>EADB Session</b>	 SALA FUENGIROLA - Edificio “La Térmica”
<b>11:30 / 11:45</b>	<i>Kayenat Parveen, University of Cologne</i> “YKL-40 and sTREM2 GWAS”	
<b>11:45 / 12:00</b>	<i>Pablo García, Fundaciò ACE</i> “ROH”	
<b>12:00</b>	<i>Jean Charles Lambert, Institute Pasteur Lille</i> “Adjourn”	

**13:30 / 15:00      LUNCH & POSTERS**

**XVII CIBERNED Scientific Forum**

<b>15:00 / 17:00</b>	<b>SCIENTIFIC Session V</b>	 AUDITORIO
	Chairperson: <b>Eva Carro</b>	
<b>15:00 / 15:30</b>	<i>Mercè Boada, CIBERNED, Fundaciò ACE</i> "Understanding a Multimechanistic Terapheutics Approach of AD"	
<b>15:30 / 16:00</b>	<i>Eduardo Soriano, CIBERNED, Universidad de Barcelona</i> "The Reelin path to Alzheimer's Disease"	
<b>16:00 / 16:30</b>	<i>Antonia Gutiérrez, CIBERNED, Universidad de Málaga</i> "Shedding light on microglia and microglia-like-cells in the Alzheimer's disease brains"	
<b>16:30 / 17:00</b>	<i>Javier de Felipe, CIBERNED, Instituto Cajal,CSIC</i> "New technologies for the microscopic analysis of the brain: applications in Alzheimer's disease"	

PARALLEL SESSION

<b>15:00 / 17:00</b>	<b>Parallel Session</b>	 SALA FUENGIROLA - Edificio "La Térmica"
	<i>Luzma García / Juan Luque, CIBER, Oficina de Transferencia de Conocimiento y Plataforma de Desarrollo Tecnológico</i> "Cómo tener un proyecto traslacional de película (la presentación que nadie pidió pero que puede salvarte de cometer muchos errores)"	

**17:00 / 17:30 COFFEE BREAK & POSTERS**

**17:30 / 19:00 CLAUSTRO CIENTÍFICO CIBERNED**

SCIENTIFIC PROGRAM

<b>09:00 / 11:00</b>	<b>SCIENTIFIC Session VI</b>	 AUDITORIO
	New ways of imaging dementia in the era of disease-modifying drugs	
	Chairperson: <i>Michel Grothe</i>	
<b>09:00 / 09:30</b>	<i>Rik Ossenkoppele, Alzheimercenter Amsterdam (UMC)/Lund University</i> Visualizing tau pathology in the living human brain using PET	
<b>09:30 / 10:00</b>	<i>Juan Fortea, Hospital de la Santa Creu i Sant Pau, Barcelona-CIBER</i> Biphasic cortical changes in Alzheimer Disease: A potential explanation for the (pseudo)atrophy found with anti-amyloid agents	
<b>10:00 / 10:30</b>	<i>Jorge Sepulcre, Gordon Center for Medical Imaging (MGH)/Harvard University Medical School</i> "Connectomic-Genetic Signatures in the Human Brain Neurodegeneration"	
<b>10:30 / 11:00</b>	<i>Juan Domingo Gispert, CIBER-BBN, Barcelona Beta Research Center</i> Amyloid PET Imaging in the Era of Anti-Amyloid Therapies: Insights from the AMYPAD European Consortium	

**11:00 / 11:30**      **BREAK & POSTERS**

<b>12:00 / 13:30</b>	<b>OFFICIAL OPENING SESSION</b>	 AUDITORIO
	With the Presidency of Her Majesty the Queen Sofia	
<b>12:30 / 13:30</b>	<b>KEYNOTE LECTURE REINA SOFIA</b>	
	<i>Dr. Jean-Charles Lambert, Institut Pasteur de Lille-INSERM</i> Step by step: towards a better understanding of the genetic architecture of Alzheimer's disease Introduced by: <i>Agustín Ruiz, Fundaciò ACE</i>	

**13:30 / 15:00**      **LUNCH & POSTERS**

**SCIENTIFIC PROGRAM**

**15:00 / 17:00**

**SCIENTIFIC Session VII**

Anti-amyloid therapies in Alzheimer's disease

Chairperson:

*Alberto Lleó*



**15:00 / 15:30**

*Pablo Martínez-Lage, Fundación CITA-Alzheimer Fundazioa, Donostia -*

*San Sebastián*

Clinical Development of lecanemab

**15:30 / 16:00**

*Stéphane Epebaum, Eli Lilly and Company, Medical Affairs – Associate Vice President International Business Unit*

Efficacy and Safety of Donanemab in Early Symptomatic Alzheimer's Disease: TRAILBLAZER-ALZ 2, a Randomized Phase 3 Clinical Trial

**16:00 / 16:30**

**Discussion**

**16:30 / 17:30**

**COFFEE BREAK & POSTERS**

**17:30 / 19:00**

**SCIENTIFIC Session VIII**

Blood-based biomarkers in Alzheimer's disease

Chairperson:

*Raquel Sánchez Valle*



**17:30 / 18:00**

*Michael Scholl, University of Gothenburg/University College London*

Bridging the gap - bringing (blood-based) biomarkers into the clinic

**18:00 / 18:30**

*Nicholas Ashton, University of Gothenburg*

"Blood phosphorylated tau as a biomarker for Alzheimer's pathology. A measure of amyloid pathology, tau pathology or something else?"

**18:30 / 19:00**

*Alberto Lleó, Hospital de la Santa Creu i Sant Pau, Barcelona-CIBERNED*

Synaptic pathology in Alzheimer's disease: implications for novel therapies

SCIENTIFIC PROGRAM

<b>09:00 / 10:30</b>	<b>SCIENTIFIC Session IX</b> <b>Digital biomarkers and AI in Alzheimer's disease</b> Chairperson: <b><i>Antonia Gutiérrez</i></b>	 AUDITORIO
<b>09:00 / 09:30</b>	<b>Gonzalo Polavieja, Fundação Champalimaud, Lisboa</b> “Recent advancements in AI and their possible implications for medical data analysis”	
<b>09:30 / 10:00</b>	<b>Florencia lulita, Altoida. Head of Medical Strategy and Operations</b> Developing the next generation of brain digital biomarkers	
<b>10:00 / 10:30</b>	<b>Agustín Ruiz - Pascual Sánchez, Fundaciò ACE-Fundación CIEN</b> Precision Medicine Program DEGESCO	

**10:30 / 11:00 COFFEE BREAK & POSTERS**

**11:00 / 11:10 PROYECCIÓN VÍDEO**

SCIENTIFIC PROGRAM

11:10 / 12:30

**SCIENTIFIC Session X**

Alzheimer's disease management in the near future

Chairperson:

*Adolfo López de Munaín (CIBERNED)*

*Pascual Sánchez-Juan (CIEN)*

*Raquel Sánchez-Valle (SEN)*

 AUDITORIO

11:10 / 11:20

*José Miguel Laínez, Presidente de la SEN*

Atención neurológica en España, estado actual y desafíos

11:20 / 11:30

*Pedro Serrano, Hospital Regional de Málaga*

Visión de un jefe de servicio

11:30 / 11:40

*Mariló Almagro, Presidenta de CEAFA*

¿Qué piden el paciente y sus cuidadores al sistema sanitario y a los investigadores españoles?

11:40 / 11:50

*Kina García del Mora, Miembro del P.E.P.A. (Panel de Expertos de Personas con Alzheimer)*

La visión del enfermo

11:50 / 12:00

*Pascual Sánchez Juan, Fundación CIEN*

Precision Medicine in Dementia prevention

12:00 / 12:10

*Emilio Vargas, Jefe de Servicio de Farmacología Clínica (Hospital Clínico San Carlos)-UCM*

12:10 / 12:20

**Discussion**

13:00 / 13:15

**CONCLUDING REMARKS:**

*Adolfo López de Munaín (CIBERNED)*

*Pascual Sánchez-Juan (CIEN)*

*Raquel Sánchez-Valle (SEN)*

 AUDITORIO

13:15

**END OF MEETING**

ORGANIZERS



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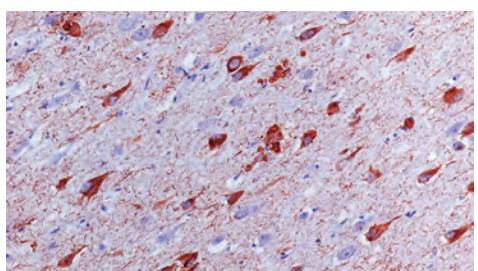
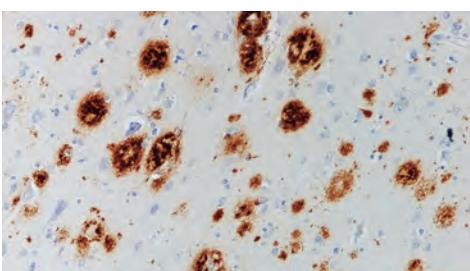
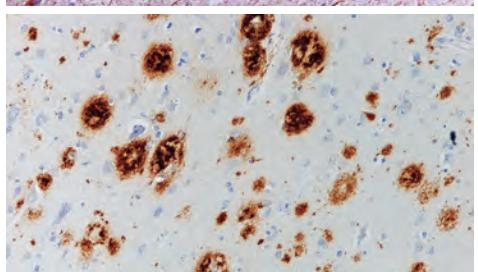
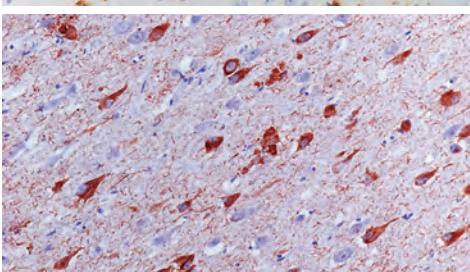
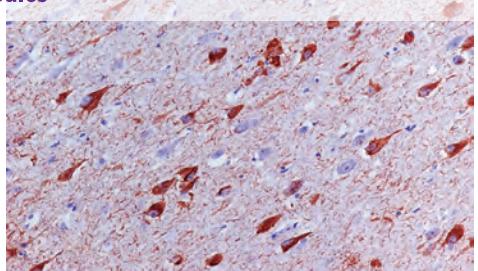
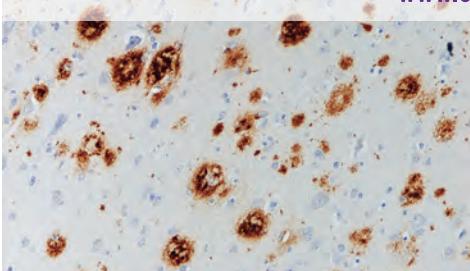
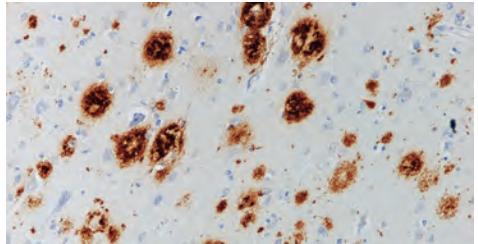
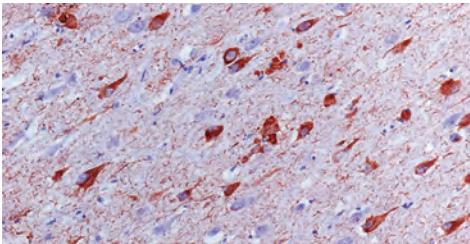


UNIVERSIDAD  
DE MÁLAGA



WITH THE PARTICIPATION OF:





**COVER PICTURE:** "Placas focales y difusas en córtex frontal humano. Inmunotinción para beta-amiloide".

Dr. Alberto Rábano (Biobanco Fundación CIEN)

**COVER PICTURE:** "Ovillos neurofibriales y otras inclusiones tau+ en córtex del hipocampo humano. Inmunotinción para tau AT8".

Dr. Alberto Rábano (Biobanco Fundación CIEN)

