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**INTERNATIONAL CONGRESS ON NEUROINFLAMMATION,
AGING AND NEURODEGENERATIVE DISORDERS**

XIX CIBERNED ANNUAL FORUM

FIRST JOINT MEETING CIBERNED/CIBERFES



Organized by

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Ciudad Real, May 28th-30th, 2025

Venue: Hotel Exe Doña Carlota, Ciudad Real

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Wednesday, May 28

12:00 - 15:30 **Registration and posters set-up**

12:30 - 12:45 **Welcome Ceremony**

Dña. Marina Pollán Santamaría, Directora del Instituto de Salud Carlos III
D. Manuel Sánchez de la Torre, Director Científico del Instituto de Investigación Sanitaria de la Junta de Castilla-La Mancha (IDISCAM)
D. Ricardo Cuevas Campos, Vicerrector de Política Científica de la Universidad de Castilla-La Mancha
D. Javier Lopez Martín, Presidente de Eurocaja Rural
Dña. Marta Ortiz Rivera, Subdirectora General de Redes y Centros de Investigación Cooperativa del ISCIII

12:45 - 13:45 **Colloquium with representatives of patient advocacy organizations**

CHAIRPERSONS: Adolfo López de Munain / Pedro Abizanda

Dña. Inés Losa, Plataforma de Organizaciones de Pacientes (POP)
Dña. M. Dolores Almagro Cabrera, Confederación Española de Alzheimer (CEAFA)
Dña. Begoña Martín, Federación Española de Enfermedades Neuromusculares (ASEM)
Dña. Beatriz Martínez de la Cruz, Esclerosis Múltiple España (EME)
D. Antonio Burgueño, presidente de la Comisión de Salud y Coordinación Sanitaria de la Confederación Española de Organizaciones de Mayores (CEOMA)

13:45 - 15:30 **Welcome cocktail, networking & posters view**

15:30 - 17:15 **Neuroinflammation and neurodegeneration I**

CHAIRPERSON: Pablo Mir

15:30-16:15 **Michael T. Heneka**, Luxembourg Centre for Systems Biomedicine, University of Luxembourg

“Innate immunity in neurodegenerative disease”

16:15-16:40 **Jordi Bové**, CIBERNED, Vall d'Hebron Research Institute, Barcelona, Spain

“Role of CD8 T cells in the onset of Parkinson’s disease”

16:40-17:05 **Laura Muñoz Delgado**, CIBERNED, Institute of Biomedicine of Seville (IBiS), Spain

“Exploring the link between peripheral inflammation and Parkinson’s disease”

17:05 - 17:45 **Coffee break, networking & posters view**

17:45 - 19:25 **Therapeutic approaches and biomarkers**

CHAIRPERSON: Eva Carro

17:45-18:10 **José Viña**, CIBERFES, University of Valencia, Institute of Health Research-INCLIVA, Valencia, Spain

“Usefulness of genistein to delay the transition from minimal cognitive impairment to Alzheimer’s dementia research”

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- 18:10-18:35** **Alfonso Rodríguez-Gil**, CIBERNED, Institute of Biomedicine of Seville (IBiS), Spain
"Alpha-synuclein targeted CAR-Treg cell therapy"
- 18:35-19:00** **Germaine Escames**, CIBERFES, University of Granada, Spain
"Melatonin and cognitive decline"
- 19:00-19:25** **Pascual Sánchez-Juan**, CIBERNED, Alzheimer's Centre Reina Sofía-CIEN Foundation, Madrid, Spain
"CIEN: A Unique Hub for Neurodegenerative Biomarker Discovery"
- 19:25-19:40** **Barry Lynch**, Alamar Biosciences, Fremont, CA, USA
"NULISA Technology a new ultra-sensitive proteomics platform for profiling CNS fluid-based biomarkers"

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Thursday, May 29

9:00 - 11:00 Young Investigator Awards & Poster Highlights

CHAIRPERSON: Teresa Iglesias

09:00 Nicolás Capelo, Young Investigator Award, CIBERNED, Institute of Biomedicine of Seville (IBiS), Spain

“Microglia mitochondrial complex I deficiency during development induces glial dysfunction and early lethality”

09:20 Pablo Iruzubietta, Clinical Young Investigator Award, CIBERNED, Montreal Neurological Institute, Toronto, Canada

“Biallelic variants in SNUPN cause a limb girdle muscular dystrophy with myofibrillar-like features”

09:40 Short communications from selected posters

Salomé Sírerol, CIBERNED, University of Valencia

“Age-dependent progression from clearance to vulnerability of microglia to α Syn toxic species”

Rebeca Acín, CIBERFES, National Center for Cardiovascular Research

“ATP synthase reverse activity emerges as a new metabolic indicator of aging”

Ana Guerero, CIBERNED, University of Barcelona

“Cellular senescence: the missing link between aging and Alzheimer’s Disease?”

Marta Turégano, CIBERNED, Technical University of Madrid

“Application of Volume Electron Microscopy to the Study of Alzheimer’s Disease”

Arnaldo Parra, CIBERNED, Autonomous University of Barcelona

“Age-related changes in the excitatory transcriptome of Alzheimer’s disease transgenic mice”

Almudena Avendaño, CIBERFES, University of Castilla-La Mancha, Albacete, Spain

“Multicenter cluster randomized clinical trial to analyze the efficacy of the Spanish National Health System Prevention Strategy-based intervention to improve frailty or physical function in prefrail or frail older adults: THE FRAILMERIT STUDY”

Assumpció Bosch, CIBERNED, Autonomous University of Barcelona

“Mice overexpressing mutated profilin 1 (PFN1 G118V) recapitulate motor, neuromuscular and cognitive ALS/FTD phenotype”

Eneritz López, CIBERNED, University of the Basque Country

“Myelin-derived fatty acids fuel brain neurons and glia in health and disease”

11:00 - 11:30 Coffee break & posters view

11:30 - 13:30 CIBERFES BOARD OF PIs (parallel session, Lounge Carolina, first floor)

11:30 - 13:30 Neuroinflammation and neurodegeneration II

CHAIRPERSON: Isabel Fariñas

11:30-12:10 Josep Dalmau, Hospital Clínic de Barcelona, University of Barcelona, Spain

“Encephalitis and neurodegeneration caused by synaptic autoimmunity”

12:10-12:35 Andrés Miguez, CIBERNED, Vall d’Hebron University Hospital, Barcelona, Spain

“Humanized preclinical models to study glial pathology and remyelination strategies in multiple sclerosis patients”

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- 12:35-13:00** **Silvia de Santis**, Institute for Neuroscience, Alicante, Spain
“Leveraging magnetic resonance image to understand microstructural brain trajectories in ageing and Alzheimer”
- 13:00 - 15:15** **Lunch, networking & posters view**
- 15:15 - 16:30** **Aging, frailty and neurodegeneration I**
CHAIRPERSON: Leocadio Rodríguez Mañas
- 15:15-15:40** **Cristina Andrés Lacueva**, CIBERFES, University of Barcelona, Spain
“Exploring the Brain-Microbiota-Gut Axis: Metabolomic Bridges Between Nutrition and Healthy Aging”
- 15:40-15:05** **María Carmen Gómez-Cabrera**, CIBERFES, University of Valencia. Fundación Investigación Hospital Clínico Universitario/INCLIVA, Valencia, Spain
“Neuromuscular changes with frailty and sarcopenia”
- 16:05:16:30** **Francisco José García**, CIBERFES, University Hospital Complex, Toledo, Spain
“Frailty, cognitive impairment and dementia”
- 16:30 - 17:00** **Coffee break & posters**
- 17:00 - 18:15** **Aging, frailty and neurodegeneration II**
CHAIRPERSON: José Viña
- 17:00-17:25** **Oscar Fernández-Capetillo**, CIBERNED, Spanish National Cancer Research Centre (CNIO), Madrid, Spain
“Exploring the links between aging, neurodegeneration and orphan ribosomal proteins”
- 17:25-17:50** **Bryan A. Strange**, Center of Biomedical technology, Technical University of Madrid, Spain
“Functional and structural longitudinal brain trajectories in superaging”
- 17:50-18:15** **Carmen Paradas**, CIBERNED, Institute of Biomedicine of Seville (IBiS), Spain
“Synergizing Efforts to Develop and Accelerate Breakthroughs in ALS Research (SEED-ALS)”
- 18:30 - 19:30** **CIBERNED BOARD OF PIs**
- 18:30 - 19:30** **YOUNG INVESTIGATORS MEETING** (parallel session, Lounge Carolina)

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Friday, May 30

9:00 - 11:00 Neuroinflammation and neurodegeneration III

CHAIRPERSON: Manuel Comabella

09:00-09:25 M. Cruz Rodríguez-Oroz, University Clinic of Navarra, Pamplona, Spain
"Central and Peripheral Immunity in Parkinson's Disease and Prodromal Forms"

09:25-09:50 Juan P. Bolaños, CIBERFES, Institute of Functional Biology and Genomics, CSIC, University of Salamanca, Spain

"The astrocyte-neuron interaction in the modulation of brain activity. Pathological implications"

09:50-10:15 Ander Matheu, CIBERFES, Biogipuzkoa Institute for Health Research, Spain
"Role of astrocytes in physiological and pathological brain aging"

10:15 - 11:00 PhD blitz session I

CHAIRPERSON: Patricia Gómez-Suaga

Andrea Iribarren, CIBERNED, Biogipuzkoa Health Research Institute, PhD supervisor: D. Otaegui and A. Albarro

"Aging-dependent immunological changes in multiple sclerosis"

Eva Alegre, CIBERNED, University of Extremadura, PhD supervisors: J.M. Fuentes and S. Yakhine Diop

"Alteraciones de las vías endocítica-lisosomal y el metabolismo energético en la distrofia miotónica tipo 1"

Daniel Carnicero, CIBERNED, Autonomous University of Madrid, PhD supervisor: A.I. Rojo
"Defining the role of transcription factor NRF2 in the maintenance of synaptic homeostasis"

M^a Luisa Hidalgo, CIBERFES, Institute of Functional Biology and Genomics, PhD supervisor: J.P. Bolaños

"Alteraciones fenotípicas en ratones carentes del complejo I mitocondrial en astrocitos"

Blanca Salgado, CIBERNED, Autonomous University of Madrid, PhD supervisors: M.J. Bullido and J. Aldudo

"Role of cholesterol in HSV-1-induced infection and neurodegeneration in 3D human neural cultures"

María Cabañas, CIBERNED, National Hospital for Paraplegics, PhD supervisor: D. Clemente

"Las células mieloides supresoras como biomarcador de la capacidad endógena de remielinización en Esclerosis Múltiple"

Anna Coward, CIBERFES, Barcelonabeta Brain Research Center, PhD supervisors: O. Grau, M. Suárez Calvet, and G. Salvadó Blasco

"Relationships between Different Neurodegeneration Biomarkers and Cognitive Decline Trajectories in a Preclinical Alzheimer's Cohort"

Silvia Silva, CIBERNED, Institute of Biomedicine of Seville, PhD supervisor: S. Morcuende
"Vascular Endothelial Growth Factor (VEGF) in the Oculomotor System: Presence and Modulation After Injury."

Lucía Baselga, CIBERNED, Center of Biological Research CSIC, PhD supervisor: A. Martínez
"Search for new drugs for Dementia with Lewy Bodies and other dementias"

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11:00 - 11:30 **Coffee break & posters view**

11:30 - 12:15 **PhD blitz session II**

CHAIRPERSON: Cristina Ortega

Marta Paredes, CIBERNED, University of Extremadura, PhD supervisor: M. Niso and G. Martínez

“Papel de QBA en Envejecimiento y Neurodegeneración”

Pedro González, CIBERFES, University of Murcia, PhD supervisors: M.A. Rol de Lama and J.A. Madrid

“The role of metabolic time in circadian health”

Nora Molina, CIBERNED, University of Zaragoza, PhD supervisor: R. Osta

“El papel de los ARN no codificantes en la progresión de Deterioro Cognitivo Leve a demencia”.

Aina Comas, CIBERNED, Clinic Hospital of Barcelona, PhD Supervisor: R. Sánchez-Valle

“Descifrando el impacto del sexo en el perfil proteómico de la demencia”.

Mikel Muñoz, CIBERNED, Biogipuzkoa Health Research Institute, PhD supervisor: I. Holt and I. Martí

“Pathological ATAD3 variants and perturbed cholesterol metabolism in human and fly”

Anabel Sáez, CIBERNED, National Cancer Research Institute, Ph D supervisor: O. Fernández-Capetillo

“Ribosomopathies at the core of aging and neurodegeneration”

Deborah Romualdi, CIBERNED, Carlos III Health Institute, PhD supervisor: E. Carro

“Salivary lactoferrin as a new Alzheimer’s disease non-invasive biomarker: link between oral dysbiosis and infective hypothesis”

José Jiménez, CIBERNED, Autonomous University of Madrid, PhD supervisor: A. Cuadrado and A.I. Rojo

“NRF2 deficiency exacerbates stress granule persistence and protein aggregation in ALS”

Darío García, CIBERFES, Institute of Functional Biology and Genomics, PhD supervisor: J.P. Bolaños

“Impact of the mitochondrial pyruvate carrier on astrocytic metabolism and mouse physiology”

12:15 - 13:30 **Neuroinflammation and neurodegeneration IV**

CHAIRPERSON: Carlos Matute

12:15-12:40 **Diego Clemente**, CIBERNED, National Hospital for Paraplegics, Toledo, Spain
“New neuroimmunological insights into disease severity in multiple sclerosis: implications for myelin repair”

12:40-13:05 **Clara Muñoz-Castro**, CIBERNED, Institute of Biomedicine of Seville, Spain
“Microglial modulation of astrocyte metabolism in Alzheimer's disease”

13:05-13:30 **David Otaegui**, CIBERNED, Biogipuzkoa Institute for Health Research, Spain
“Non coding RNA in Multiple Sclerosis”

13:30 **Summary and concluding remarks. Farewell**

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