

ENCALS

European Network to Cure ALS

**ENCALS MEETING 2026
MADRID • SPAIN**

24-25-26 JUNE 2026

PRE-CONGRESS DAY: JUNE 23

www.encals-congress.com



FINAL PROGRAM



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WELCOME LETTER

Dear colleagues and partners,

On behalf of the ENCALS Executive Board and the Organizing Committee ENCALS Madrid 2026, it is our pleasure to welcoming you to the Annual Meeting of the European Network for the Cure of ALS, which is taking place in Madrid, from June 23rd to 26th, 2026, at the Palacio Municipal de Congresos.

ENCALS is the leading European forum for researchers, clinicians, and professionals dedicated to the study of amyotrophic lateral sclerosis (ALS) and other motor neuron diseases. Each year, this meeting brings together the most active and innovative teams in the field to share scientific discoveries, foster collaboration, and accelerate the translation of knowledge into meaningful therapeutic advances.

Madrid is hosting more than 1.000 researchers, neurologists, clinical teams and healthcare professionals during ENCALS 2026, presenting the latest progress in genetics, molecular biology, biomarkers, neuroimaging, clinical trials, technological innovation, and multidisciplinary care.

We would like to thank all the companies participating in ENCALS 2026. Your support is essential to make this event possible, and your participation directly contributes to both scientific progress and social impact in the fight against ALS.

With our warmest regards,

Leonard van den Berg and Orla Hardiman
on behalf of the ENCALS Executive Committee

Alberto García Redondo and Jesús Esteban Pérez
on behalf of the Organizing Committee ENCALS Madrid 2026

VENUE

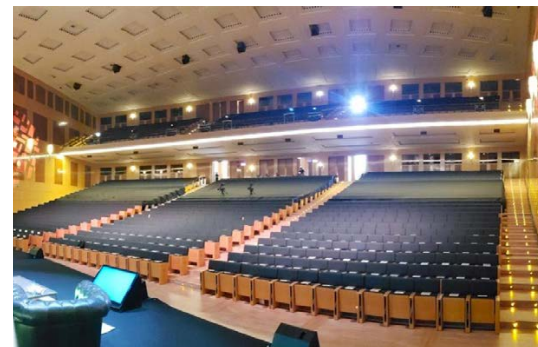
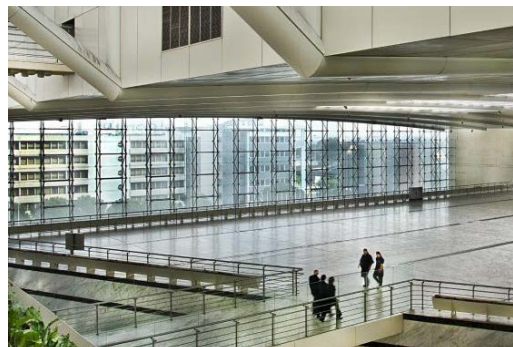
PALACIO MUNICIPAL DE CONGRESOS DE MADRID (PALACIO MUNICIPAL - IFEMA MADRID)

Av. Capital de España, 7, 28042 Madrid (Spain)

[Website - click here](#)



The IFEMA Palacio Municipal in Madrid, Spain, is a modern and versatile convention center known for hosting a wide range of events, conferences, and exhibitions. Conveniently located near the city center, it offers state-of-the-art facilities and easy access to transportation, making it a prime venue for international gatherings.



MAIN CONTACT DETAILS

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ENCALS

European Network to Cure ALS

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COMMITTEES

ENCALS Executive board

Chair:

Leonard van den Berg
(The Netherlands)

Co-chair:

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(Ireland)

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Caroline Ingre
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Philip van Damme
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(Sweden)

Francois Salachas
(France)

Magdalena Kuzma
(Poland)

Sharon Abrahams
(Scotland)

Julian Grosskreutz
(Germany)

Ammar Al-Chalabi, chair award committee
(England)

Thomas Meyer
(Germany)

Vincenzo Silani
(Italy)

Philippe Corcia
(France)

Blaž Kortnik
(Slovenia)

Martin Turner
(England)

Christopher McDermot
(England)

SPEAKERS



Prof. Ammar Al-Chalabi

Maurice Wohl Clinical Neuroscience Institute
King's College London
London, United Kingdom



Prof. Andrea Calvo

Università degli Studi di Torino
AOU Città della Salute e della Scienza
di Torino Hospital
Turin, Italy



Dr. Alejandro Caravaca Puchades

Hospital Universitari de Bellvitge - IDIBELL
Barcelona, Spain



Prof. John Landers

UMass Medical School
Worcester, MA, USA



Dr. Mónica Povedano Panadés

Hospital Universitari de Bellvitge - IDIBELL
Barcelona, Spain



Dr. Teresa Salas Campos

Hospital Universitario La Paz/Carlos III
Madrid, Spain



Dr. Alexander Thompson

University of Oxford
Oxford, United Kingdom



Prof. Nicola Ticozzi

Istituto Auxologico Italiano, University of Milan
Milan, Italy



Dr. Ruben van Eijk

University Medical Center Utrecht
Utrecht, The Netherlands



Prof. Christine Vande Velde

Université de Montréal
Montreal, Canada



Prof. Jochen Weishaupt

Universitäts und Rehabilitationskliniken Ulm
(RKU)

Ulm, Germany

ENCALS

European Network to Cure ALS

SCIENTIFIC PROGRAM



Scientific Grid Pre-Congress Day

TUESDAY June 23rd

	FIRST FLOOR		SECOND FLOOR		FOURTH FLOOR		
	BUENOS AIRES - HAVANA - MEXICO ROOM	PRENSA ROOM	CARACAS - BOGOTÁ ROOM	LA PAZ - MONTEVIDEO ROOM	BRATISLAVA ROOM		
09:00-10:00							
10:00-11:00		INARC MEETING					
11:00-12:00							
12:00-13:00							
13:00-14:00	Break			PRECISION ALS	premodiALS Consortium		
14:00-15:00	Industry session (see page 130-131)	INARC MEETING					
15:00-16:00			ALS App Europe Initiative		Asymptomatic Gene Carrier Studies		
16:00-17:00							
17:00-18:00							

WEDNESDAY June 24th

	FIRST FLOOR		SECOND FLOOR		FOURTH FLOOR
	BUENOS AIRES - HAVANA - MEXICO ROOM	PRENSA ROOM	CARACAS - BOGOTÁ ROOM	LA PAZ - MONTEVIDEO ROOM	BRATISLAVA ROOM
09:00-10:00	(08.15-11.50) TRICALS	Neuropsychology workshop		SEED Consortium	
10:00-11:00					
11:00-12:00			(11.30 - 13.00) Industry session (see page 131)		
12:00-13:00	(11.50 - 13.00) Industry session (see page 131)				

Scientific Grid

ENCALS Meeting

WEDNESDAY June 24th

	AUDITORIUM
13:00-13:30	WELCOME ADDRESS
13:30-15:00	GENETICS AND GENOMICS IN ALS: FROM DISCOVERY TO PRECISION THERAPIES Plenary Speaker: John Landers (Worcester, MA, United States)
15:00-15:30	Coffee break and posters
15:30-17:00	PRESYMPTOMATIC & BIOMARKERS Plenary Speaker: Alex Thompson (Oxford, United Kingdom)
17:00-17:20	RAPID FIRE PRESENTATIONS
17:20-19:00	ENCALS RESEARCH FORUM – POSTERS SESSION

Scientific Grid

ENCALS Meeting

THURSDAY June 25th

	AUDITORIUM
08:30-10:00	INNOVATIVE PRECLINICAL MODELS: BRIDGING MECHANISMS AND TRANSLATION Plenary Speaker: Jochen Weishaupt (Ulm, Germany)
10:00-10:25	Coffee break and posters
10:25-10:30	Group photo
10:30-11:40	EPIDEMIOLOGY AND PHENOTYPING Plenary Speaker: Mónica Povedano Panadés (Barcelona, Spain)
11:40-12:30	DEBATE: ARE WE READY TO REDEFINE ALS THROUGH PRECISION AND EARLY INTERVENTION? Speakers: Andrea Calvo (Turin, Italy) and Ammar Al-Chalabi (London, United Kingdom)
12:30-12:50	RAPID FIRE PRESENTATIONS
12:50-13:50	Lunch time and posters
13:50-14:50	ALS AS A MULTISYSTEM DISORDER: BEYOND MOTOR NEURON DEGENERATION Plenary Speaker: Teresa Salas Campos (Madrid, Spain)
14:50-15:15	RAPID FIRE PRESENTATIONS
15:15-15:45	Coffee break and posters
15:45-17:00	RETHINKING ALS PATHOGENESIS: EMERGING MOLECULAR PARADIGMS Plenary Speaker: Christine Vande Velde (Montreal, Canada)
17:00-18:15	ENCALS RESEARCH FORUM – POSTERS SESSION

20:00	NETWORKING DINNER (Not included in the registration fee)
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Scientific Grid ENCALS Meeting

FRIDAY June 26th

	AUDITORIUM
09:00-10:15	CLINICAL TRIALS, STRATIFICATION AND CLINICAL OUTCOMES Plenary Speaker: Ruben van Eijk (Utrecht, The Netherlands)
10:15-10:45	YOUNG INVESTIGATOR AWARD
10:45-11:15	Coffee break
11:15-12:45	ADVANCED CLINICAL PHENOTYPING USING NEW TECHNOLOGIES Plenary Speakers: Alejandro Caravaca Puchades (Barcelona, Spain) and Nicola Ticozzi (Milan, Italy)

Tuesday June 23th - Pre-Congress

INTERNATIONAL NETWORK FOR ALS - RESEARCH AND CARE (INARC)

Tuesday, June 23th

09.30-16.45

Prensa room

Please note that this is a closed meeting. Prior registration is mandatory for attendance. We cannot accommodate walk-ins.

Please contact inarc@tricals.org for questions about this meeting.

PERSON-CENTRED APPROACHES TO CARE AND RESEARCH FOR PEOPLE WITH MND/ALS

09.30-09.45 Welcome and introduction to the day

09:45-11:00 THE HOLISTIC APPROACH: ENSURING OPTIMAL AND APPROPRIATE PRACTICE

Fouke Ombelet ALS/MND Nurse Specialist,

KU Leuven Center for Brain & Disease Research

Explore MDT roles, ethical considerations, and contextual factors that support patient-centred decisions

11:00-11:30 Coffee Break

11:30-12:30 COMMUNICATING EFFECTIVELY ABOUT RESEARCH WITH PEOPLE WITH AND AFFECTED BY MND

Michaela Waltho, Clinical Nurse Specialist,

National Hospital for Neurology and Neurosurgery, London

Investigate empathic, professional communication in emotionally challenging situations, focusing on what patients need to feel heard and understood.

Scenarios include disease progression, delivering bad news, and trial ineligibility.

12:30-13:15 Lunch

13:15-14:15 RESPIRATORY SYSTEMS – A HANDS-ON WORKSHOP

Saúl Marín Esteban, Physiotherapist and Clinical Trial Coordinator.

La Paz University Hospital

Paul Matthew Burnham, Specialist Respiratory Physiotherapist.

Gregorio Marañón Hospital.

Miguel Valdazo Alonso, Respiratory Physiotherapist.

Breas Medical

Pilar Carbajo Gullón, Clinical Trials Research Nurse.

La Paz University Hospital

This interactive session introduces respiratory devices, SNIP, FVC and peak flow, and their use in research.

Tuesday June 23th - Pre-Congress

14:15-15:00 COGNITIVE AND BEHAVIOURAL CHANGE: PROVIDING GOOD CARE & ENABLING RESEARCH PARTICIPATION WHEN THESE ARE PRESENT

Professor Eneida Mioshi, University of East Anglia

This session will present current evidence while exploring experiences of those involved in care and research recruitment when cognitive and behavioural changes are present. We will share some potential parameters to support care and research participation practices across all affected by MND/ALS.

15:00-15:15 Comfort break

15:15-16:30 PRACTICAL CHALLENGES IN MND RESEARCH

Alizé Chalançon, Project Manager, National Clinical Research Network France.

In this session you will share the launch of the new Start Up package – a guide to setting up clinical trials.

16:30-16:45 Evaluation of the day

ALS APP EUROPE INITIATIVE MEETING

Tuesday, June 23th

15:00-18:00

Caracas-Bogotá Room

15.00-15.15 Welcome coffee

15.15-15.45 Revised self-explanatory ALSFRS-R

15.45-16.15 Introduction of ALS Center App

16.15-16.45 Coffee break

16.45-17.30 ALS-OPM classification: correlation with ALS progression, NfL and survival

17.30-18.00 ALS-OPM in multiple languages

Tuesday June 23th - Pre-Congress

PRECISION ALS

Tuesday, June 23th

12.00-18.00

La Paz -Montevideo room

12.00-12:30 Lunch and Registration

12.30-12.45 Introduction to the Largest ALS Dataset in the World

12.45-13.45 PRECISION ALS Platform

Ronan McDonnell and the Technical Team

13.45-14.15 Discussion

14.15-14.30 Data Harmonisation, Update and Progress

14.30-15.00 Biomarkers: Neurofilaments, Proteomics, Transcriptomics

15.00-15.15 Discussion

15.15-15.30 Coffee

15.30-15.45 Digital Health Technologies

Marc Elliot

15.45-16.15 Social Determinants of Health

Miriam Galvin

16.15-16.45 AI & Machine Learning

Robert Ross

16.45-17.30 Discussion and Next Steps

17.30-17:50 Summary and Date for the Next Meeting

Tuesday June 23th - Pre-Congress

PREMODIALS

Tuesday, June 23th

13.00-15.30

Bratislava room

13:00-13:05 **Welcome and Introduction**

(Lingor)

State of the analysis and plan of future analysis

13:05-13:20 **Overview of current analysis**

(Tzeplaeff / Lingor / Galhoz / Menden)

13:20-13:40 **Future analyses**

Speech analysis – Ki-elements

(Thies)

miRNA analysis

(Magen / Hornstein)

Cell free DNA analysis

(Lingor)

13:40-13:55 **Predicting Phenoconversion to Clinically Manifest ALS**

(Benatar)

13:55-14:15 **Discussion on the stage of the data, plans, publication strategies**

(all)

Ongoing and future Recruitment

14:15-14:45 **Overview of the international recruitment**

France - Tours (Corcia)

Slovakia (Turčanová)

Turkiye - Antalya (Uysal)

Switzerland (Weber / Neuwirth)

Israel (Lerner / Alhlim)

Czech Republic (Vlčková / Betík)

Germany - Rostock (Hermann)

Germany - Munich (Lingor)

14:45-15:00 **Presentation of the new recruitment centers**

France (Couratier / Guy / Danel Brunaud / del Mar Amador / Soriani / Bernard)

Turkiye - Istanbul (Ofizer)

Spain (Rubio)

Belgium (Masroni)

15:00-15:20 **Discussion on recruitment planning and goals (all)**

Future of premodiALS – how to maintain a sustainable structure?

15:20-15:30 **Prolongation of premodiALS and novel opportunities**

(Lingor / all)

15:30

End of the official meeting

Wednesday June 24th - Pre-Congress

TRICALS

Wednesday, June 24th

08.15-11.50

Buenos Aires – Havana - Mexico room

Insights in recent and current clinical trial results

During the TRICALS satellite meeting, Companies will present their trial results, and several companies will provide updates on their ongoing studies. There will be ample opportunity for questions and discussion. This meeting represents an important moment to showcase the current state of clinical research in ALS and to highlight what lies ahead.

08:15-08:45 Breakfast, networking and walk-in

08:45-09:00 Opening by Prof. Leonard van den Berg

09:00-10:15 Study results: Magnet lithium, Quralis, argenx, AL-S pharma, Corcept, Neurosense, Axoltis

10:15-10:30 Coffee break

10:30-11:10 Study updates: VectorY, Leal Therapeutics Inc., Ionis, Trace Neuroscience, Zydus Therapeutics Inc., NuraBio, Eli Lilly, ProjenX

11:10-11:30 Panel discussion with Group 2 presenters

11:30-11:50 PREVAiLS study update

NEUROPSYCHOLOGY WORKING GROUP

Wednesday, June 24th

09.00-12.30

Prensa room

Findings from last year

Joke De Vocht

Introduction to this year's theme

Ratko Radakovic, Caroline McHutchison

Talks from young researchers

[TBD]

Interactive session: Understanding Behaviour in ALS

Ratko Radakovic, Caroline McHutchison

Wednesday June 24th - Pre-Congress

SEED-ALS

Wednesday, June 24th

09.00-11.30

La Paz - Montevideo Room

09:00-09:05 **Welcome**

Carlos Sanz

09:05-09:20 **PROJECT UPDATE**

Financial status

Carlos Sanz

Overall project status

Adolfo López de Munain

09:20-10:00 **CLINICAL CORE**

Carmen Paradas

10:00-10:30 **TRASLATIONAL CORE**

Cellular Core

Ana Martínez, Patricia Gómez Suaga

Lipidomics and metabolism

Estela Área,

Carmen María Fernández Martos

10:30-12:00

Open Discussion,

Questions and General Remarks



Wednesday June 24th - Congress

13:00-13:30 WELCOME ADDRESS

13:30-15:00 GENETICS AND GENOMICS IN ALS

Moderators:

Wouter van Rheenen (University Medical Center Utrecht, The Netherlands)

Juan Francisco Vázquez Costa (Hospital Univ. La Fe, Valencia, Spain)

13:30-13:45 Plenary talk:

Transitioning ALS Genetic Discoveries Into Therapeutic Treatments

John Landers

(UMass Medical School, Worcester, MA, United States)

13:45-13:50 Discussion

13:50-14:00 Analysis Of ARPP21 Mutations In Familial And Sporadic Amyotrophic Lateral Sclerosis In The Spanish Population

Álvaro Carbayo Viejo, Spain

14:00-14:10 Rare Pathogenic Neurologic And Neurodevelopmental Variants In Als Associate With Onset, Survival And Family History

Ciara O'Donoghue, Ireland

14:10-14:20 Using Dutch Archive Data To Reconstruct Als Superpedigrees At Scale

Daphne van Oosten, The Netherlands

14:20-14:30 The Shared And Differential Genetic Risk Factors Of Neurodegeneration

Tomas Gomes, Ireland

14:30-14:40 U7 SnRNAs Based Gene Therapies Targeting Cryptic Splicing Events Involved In ALS/FTD

Alessandro Marrero Gagliardi, United Kingdom

14:40-14:50 Restoring TDP-43 Function: The Translational Potential Of AP-2 In ALS

Ana Martinez, Spain

14:50-15:00 Arc-Mediated TDP-43 Encapsidation Drives Intercellular Propagation In ALS: A Novel Therapeutic "Firewall" Validated By Lenacapavir Repositioning

Gorka Gereñu Lopetegí, Spain

15:00-15:30 Coffee Break and Posters

15:30-17:00 PRESYMPTOMATIC & BIOMARKERS

Moderators:

Jenna Gregory (Institute of Medical Sciences, University of Aberdeen, United Kingdom)

Miguel Ángel Rubio Pérez (Hospital del Mar, Barcelona, Spain)

15:30-15:45 Plenary talk:

Understanding the earliest events in ALS

Alexander Thompson

(University of Oxford, Oxford, United Kingdom)

15:45-15:50 Discussion

Wednesday June 24th - Congress

15:50-16:00 **Presymptomatic Changes In Brain Structure In Sporadic And C9orf72 Mutation Carrying ALS Patients**

Pauline van Lieshout, The Netherlands

16:00-16:10 **Plasma Lipidomic Signatures Contribute To Biological Stratification Of ALS Progression**

Bernat Bertran Recasens, Spain

16:10-16:20 **A Large Scale Study Of Urinary P75ECD In Amyotrophic Lateral Sclerosis, Primary Lateral Sclerosis And Mimics**

Koen C. Demaegd, The Netherlands

16:20-16:30 **Muscle Proteins Dominate The Circulating Proteomic Signature Of ALS And ALS Phenotypes**

Louisa Azizi, Sweden

16:30-16:40 **Sweat Gland TDP-43 Pathology Precedes Symptom Onset In Amyotrophic Lateral Sclerosis**

Katie Hanna, United Kingdom

16:40-16:50 **Lipid And Muscle Biomarker Trajectories Before ALS Or FTD**

Christos V. Chalitsios, United Kingdom

16:50-17:00 **Multiparametric Muscle Ultrasound In Early Amyotrophic Lateral Sclerosis: Morphological And Textural Biomarkers As Diagnostic Discriminators**

José Ríos-Díaz, Spain

17:00-17:20 **RAPID FIRE PRESENTATIONS**

Moderators:

Magdalena Kuzma-Kozakiewicz (Medical University of Warsaw, Poland)

Janne M. Toivonen (Univ. Zaragoza, Spain)

17:00-17:02 **Different Contribution Of Nucleus Accumbens And Amygdala Subnuclei To The Emergence Of Positive And Negative Behavioural Symptoms In Amyotrophic Lateral Sclerosis**

Alessio Maranzano, Italy

17:02-17:04 **Spinal Cord Atrophy Across Clinical Phenotypes And Stages In Amyotrophic Lateral Sclerosis: Results From a large multicentre MRI Cohort**

Giorgia Querin, France

17:04-17:06 **The Effect Of An UNC13A Polymorphism On Neuroimaging In ALS**

Justus van Nispen tot Sevenaer, The Netherlands

17:06-17:08 **Quantifying Survival Differences Between ALS Clinical Trial Participants And Population Cohorts: Evidence of prognostic enrichment in clinical trials**

Emeka Uzochukwu, United Kingdom

17:08-17:10 **Replication Of Beta EEG Oscillations Related To The Sustained Attention To Response Task In Irish And Dutch Cohorts**

Marit Bozum, The Netherlands

Wednesday June 24th - Congress

17:10-17:12 **Frontotemporal Alpha Power Is Reduced In People With ALS But Alpha Modulation Remains Intact**

Narin Suleyman, Ireland

17:12-17:14 **Global Taskforce On Genetic Counselling And Testing In ALS/MND: Developing Consensus-Based Guidelines**

Ammar Al-Chalabi, United Kingdom

17:14-17:20 Discussion

17:20-19:00 ENCALS RESEARCH FORUM – POSTERS SESSION I

Poster's defense of the following topics:

- Clinical management and support
- Clinical trials and trial design
- Cognition
- Epidemiology
- In vitro experimental models / Cellular models
- In vivo experimental models / Animal models
- Phenotyping / Disease stratification
- Pre-clinical therapeutic strategies
- Presymptomatic
- Translational research, networks and platforms

[\(Complete list of posters in page 28 - click here\)](#)

Thursday June 25th - Congress

08:30-10:00 INNOVATIVE PRECLINICAL MODELS:

BRIDGING MECHANISMS AND TRANSLATION

Moderators:

Andrea Malaspina (UCL Queen Square MND Centre, London, United Kingdom)

Sonia Alonso-Martín (Biogipuzkoa, San Sebastián, Spain)

08:30-08:45

Plenary Talk:

Preclinical models: Approaches to translation

Jochen Weishaupt

(Universitäts und Rehabilitationskliniken Ulm (RKU), Ulm, Germany)

08:45-08:50

Discussion

08:50-09:00

Elucidating The Pathological Interplay Between Cytoskeletal Alterations And MRNA Metabolism In Profilin1-Mutant Human Motor Neurons

Christina Steffke, Germany

09:00-09:10

ALS Susceptibility Gene ARPP21 Assembles Into Dynamic RNA Granules And Drives TDP-43 Proteinopathy

Afra Aabdien, United Kingdom

09:10-09:20

Targeting The PP2A-AKT-GSK3 Axis In ALS: Implication Of FMRP

Benedetta Frizzi, Belgium

09:20-09:30

Dissecting The Mechanisms And Rescue Of Astrocyte Toxicity In Sporadic Amyotrophic Lateral Sclerosis (SALS)

Katie Bowden, United Kingdom

09:30-09:40

Dysregulated Skeletal Muscle Signaling And Extracellular Vesicle Cargo Disrupt Muscle-to-neuron Communication In ALS

Amaia Elicegui, Spain

09:40-09:50

TDP-43 Pathology Induces CD8 T Cell Activation Through Cryptic Epitope Recognition

Matteo Zanovello, United Kingdom

09:50-10:00

RIG-I Mediated Neuron-Specific IFN Type 1 Signaling In FUS-ALS Induces Neurodegeneration And Offers New Biomarker-Driven Individualized Treatment Options For (FUS-)ALS

Marcel Naumann, Germany

10:00-10:25

Coffee Break and Posters

10:25-10:30

Group photo

Thursday June 25th - Congress

10:30-11:40 EPIDEMIOLOGY AND PHENOTYPING

Moderators:

Elisabetta Pupillo (Mario Negri Institute for Pharmacological Research, Milano, Italy)

Alejandro Caravaca Puchades (Hospital Universitari de Bellvitge, Barcelona, Spain)

10:30-10:45 Plenary Talk:

ALS in a Changing World: Environmental Exposures, Climate Change, and Neurodegeneration

Mónica Povedano Panadés

(Hospital Universitari de Bellvitge – IDIBELL, Barcelona, Spain)

10:45-10:50 Discussion

10:50-11:00 The Risk Of MND In A Large Cohort Of Male UK Former Professional Footballers

Elisabetta Pupillo, Italy

11:00-11:10 The Multistep Pathogenic Hypothesis Of Amyotrophic Lateral Sclerosis Is Incompatible With The Epidemiological Data

Guglielmo Foffani, Italy

11:10-11:20 Examining The Age-Incidence Curves Of ALS Across European Register: The Multistep Hypothesis revisited

Robert McFarlane, Ireland

11:20-11:30 Exposome-Wide Association Study (ExWAS) In ALS

Laura van der Schoor, The Netherlands

11:30-11:40 Motor Function And Symptom Burden In Advanced ALS – ALS Functional Rating Scale Assessment Proximate To Death

Susanne Spittel, Germany

11:40-12:30 DEBATE

ARE WE READY TO REDEFINE ALS THROUGH PRECISION AND EARLY INTERVENTION?

Chair:

Orla Hardiman (Trinity College of Dublin, Ireland)

Plenary Speakers:

Andrea Calvo

(Università degli Studi di Torino and AOU Città della Salute e della Scienza di Torino Hospital, Turin, Italy)

Ammar Al-Chalabi

(Maurice Wohl Clinical Neuroscience Institute and King's College London, London, United Kingdom)

12:30-12:50 RAPID FIRE PRESENTATIONS II

Moderators:

Helene Blasco (University of Tours, France)

Raúl Juntas (Hospital Vall d'Hebron, Barcelona, Spain)

12:30-12:32 Large-Scale Exome Analyses Reveal Novel Rare Variant Contributions In Amyotrophic Lateral Sclerosis

Paul Hop, The Netherlands

Thursday June 25th - Congress

- 12:32-12:34 **Identity-By-Descent Analyses Reveals C9orf72 Discordance, Cryptic Relatedness, And Expanded ALS Pedigrees**
Ciara O'Donoghue, Ireland
- 12:34-12:36 **Genetic Architecture Of Familial ALS In The Netherlands**
Bi-Nan Wang, The Netherlands
- 12:36-12:38 **Exploring The Power To Detect Pathogenic Mutations Through Haplotype Analyses In Distantly Related patients with ALS**
Paul Beele, The Netherlands
- 12:38-12:40 **APOEε4 Homozygosity Accelerates The Onset And Progression Of ALS Neurodegeneration**
Sebastian A. Lewandowski, Sweden
- 12:40-12:42 **Integrated CSF–Blood Immune Profiling Reveals Immune Signatures Associated With Clinical Response**
Timothy Tree, United Kingdom
- 12:42-12:44 **Clustering On CSF Biomarkers And Clinical Parameters Reveals A Signature Of Neuroinflammation**
Manuela Basso, Italy
- 12:44-12:46 **Metabolic Signatures Of Ferritin And TDP-43 Co-Pathology Provide A Mechanistic Basis For Stratified Therapeutic approaches in ALS**
Holly Spence, United Kingdom
- 12:46-12:50 Discussion
- 12:50-13:50 Lunch Time and Posters
- 13:50-14:50 ALS AS A MULTISYSTEM DISORDER: BEYOND MOTOR NEURON DEGENERATION**
Moderators:
Caroline McHutchinson (University of Stirling, United Kingdom)
Juan I. López Carbonero (Hospital Clínico San Carlos, Madrid, Spain)
- 13:50-14:05 **Plenary Talk:**
Stepping into Neuropsychology at La Paz/Carlos III Hospital in Madrid
Teresa Salas Campos
(Hospital Universitario La Paz/Carlos III, Madrid, Spain)
- 14:05-14:10 Discussion
- 14:10-14:20 **Neuropsychological Sub-Phenotypes In Amyotrophic Lateral Sclerosis**
Barbara Poletti, Italy
- 14:20-14:30 **Quantifying Behavioral Changes In ALS: Longitudinal Trajectories And Functional Network 72 Correlates Of A Domain-Specific Behavioral Scale**
Laura Josephine Hagedorn, The Netherlands
- 14:30-14:40 **Cognitive Profiles In C9orf72 Families: Evidence For Nurture By Nature**
Annebelle Michielsen, The Netherlands
- 14:40-14:50 **Somatosensory Neurological Soft Signs Associate With Executive Function In Unaffected Familial ALS Relatives Independent Of C9orf72 Status**
Sarah Darcy, Ireland

Thursday June 25th - Congress

14:50-15:15 RAPID FIRE PRESENTATIONS III

Moderators:

André Maier (Charité Universitätsmedizin Berlin, Germany)

Silvia Corrochano (Hospital Clínico San Carlos, Madrid, Spain)

14:50-14:52 **C9orf72 Repeat Expansion Affects Immune Response In A Xenografted Microglia Mouse Model**

Laura Fumagalli, Belgium

14:52-14:54 **A Distinct SPP1 Microglial Subset Initiates CD44-astrocyte Crosstalk In ALS**

Jianing Lin, Sweden

14:54-14:56 **Proteomic And Histological Profiling Of The ALS Visual Cortex Reveals Early Presynaptic Dysfunction And White Matter Atrophy**

Zsófia Laszlo, United Kingdom

14:56-14:58 **Novel TDP-43 Amyloid Polymorphs Uncover Aggregation Mechanisms In ALS**

Javier Oroz, Spain

14:58-15:00 **STMN2 Protein Depletion Via Translation Deficits And Stress Granules Independent Of TDP-43 Loss Of function**

Brittany Ellis, United Kingdom

15:00-15:02 **M6A-Dependent RNA Condensation Underlies FUS Autoregulation And Can Be Harnessed For ALS Therapy**

Vedanth Kumar, United Kingdom

15:02-15:04 **TDP-43 Dysfunction Disrupts Brain Cholesterol Homeostasis And Is Exacerbated By A High-Fat Diet**

Irene García-Toledo, Spain

15:04-15:06 **Patient-Derived Cortical Brain Organoids Model Key Pathological Features Of ALS**

Beatriz Fernandez-Muñoz, Spain

15:06-15:08 **CRISPR Kinome Screens In Human Motor Neurons Reveal Druggable Modulators Of TDP-43 Pathology**

Tania Atienzar, United Kingdom

15:08-15:10 **Disruption Of The Motor Neuron Translatome Is Disease-Specific In ALS And SMA But Converges On MCM5**

Hannah Smith, United Kingdom

15:10-15:15 Discussion

15:15-15:45 Coffee Break and Posters

Thursday June 25th - Congress

15:45-16:55 RETHINKING ALS PATHOGENESIS: EMERGING MOLECULAR PARADIGMS

Moderators:

Anna Sanchez Ávila (University of Sheffield, United Kingdom)

Ana C. Calvo Royo (Univ. Zaragoza, Spain)

15:45-16:00

Plenary talk:

Rethinking ALS Pathogenesis: Emerging Molecular Paradigms

Christine Vande Velde

(Université de Montréal, Montreal, Canada)

16:00-16:05

Discussion

16:05-16:15

Glial Phagocytosis As A Mechanism Of Synapse Loss In ALS

Zsófia Laszlo, United Kingdom

16:15-16:25

Distinct Routes To Abnormal TDP-43 Oligomerisation In ALS-C9 And Sporadic ALS

Anna Sanchez Avila, United Kingdom

16:25-16:35

Longitudinal Single-Cell RNAseq Reveals Immune Lineage Diversion And Accelerated Senescence As Drivers Of ALS Progression And Neurodegeneration

Oriol Dols-Icardo, Spain

16:35-16:45

Virotrap-Based Interactomic Profiling Reveals Novel HDAC6 Interactors With Therapeutic Relevance To ALS

Dufie Strubbe, Belgium

16:45-16:55

Immune Stimulation Exacerbates Cell Autonomous Microglial Dysfunction In A Stem Cell Model Of TBK1-Associated ALS-FTD

Owen M. Peters, United Kingdom

16:55-18:10 ENCALS RESEARCH FORUM – POSTERS SESSION II

Poster's defense of the following topics:

- Biomarkers
- Disease mechanisms
- Genetics and genomics
- Imaging and electrophysiology as biomarkers
- New drugs development
- Technology, innovation and bioengineering

[\(Complete list of posters in page 28 - click here\)](#)

Friday June 26th - Congress

09:00-10:15 CLINICAL TRIALS, STRATIFICATION AND CLINICAL OUTCOMES

Moderators:

Ciara O'Donoghue (Trinity College, Dublin, Ireland)

Javier Mascías Cadavid (Hospital Carlos III-La Paz, Madrid, Spain)

09:00-09:15

Plenary talk:

Opportunities for Innovation: Considerations for Early-Phase Clinical Trials

Ruben van Eijk

(University Medical Center Utrecht, Utrecht, The Netherlands)

09:15-09:20

Discussion

09:20-09:30

Introducing A Standardized Protocol Template For Early-Efficacy Trials In ALS: Improving Phase 2-to-3 Decision-Making (MAGNET-II)

JWJ Van Unnik, The Netherlands

09:30-09:40

Towards Regulator-Aligned Synthetic Placebo Construction In ALS: A Prespecified And Externally Validated PRO-ACT Framework

Mandy Miresmaeili, United Kingdom

09:40-09:50

Efficacy And Tolerability Of-Hydroxybutyrate In Patients With Amyotrophic Lateral Sclerosis (KETO-ALS) - A Randomised, Placebo-Controlled, Double-Blind Study

Christine Herrmann, Germany

09:50-10:00

Salivary Dim-Light Melatonin Onset Predicts Functional Decline And Survival In Early Amyotrophic Lateral Sclerosis

Alessandro Bombaci, Italy

10:00-10:15

Discussion

10:15-10:45 YOUNG INVESTIGATOR AWARD

10:45-11:15

Coffee Break and Posters

11:15-12:40 ADVANCED CLINICAL PHENOTYPING USING NEW TECHNOLOGIES

Moderators:

Blaž Koritnik (Ljubljana University Medical Centre, Slovenia)

Marta Vallejo de Frutos (Heriot-Watt University, Edinburgh, United Kingdom)

11:15-11:27

Plenary talk:

From Registries to Digital Phenotypes: Redefining ALS Through Clinical Data

Alejandro Caravaca Puchades

(Hospital Universitari de Bellvitge-IDIBELL, Barcelona, Spain)

11:27-11:30

Discussion

11:30-11:42

Plenary talk:

Beyond Clinical Labels: AI-Driven Phenotyping in ALS

Nicola Ticozzi

(Istituto Auxologico Italiano, University of Milan, Milan, Italy)

11:42-11:45

Discussion

Friday June 26th - Congress

- 11:45-11:55 **The Precision ALS Research Platform**
Ronan McDonnell, Ireland
- 11:55-12:05 **Machine Learning Validation Of Gene Expression-Based ALS Subtypes Across Brain And Blood Tissues**
Esteban Alberto Gomez Cifuentes, United Kingdom
- 12:05-12:15 **Symptom-Based Phenotype Discovery In Motor Neuron Disease Using Natural Language Processing Of Electronic Health Records**
Yusuf Abdulle, United Kingdom
- 12:15-12:25 **Red Flags For The Early Diagnosis Of Amyotrophic Lateral Sclerosis: Machine-Learning Algorithms Applied To Data From A Referral Center**
Enrico Matteoni, Italy
- 12:25-12:35 **Progression Of ALS Milestones Differs Across Disease Phenotypes**
Rosario Vasta, Italy
- 12:35-12:45 **Linking Clinical And Laboratory Electrophysiology Studies For Patient-Stratified Research In MND**
Daniel de la Fuente, United Kingdom
- 12:45-13:15 CLOSING SESSION: THE ROAD AHEAD IN ALS**
- Meeting Summary
 - Rapid Fire and Poster prizes
 - Welcome to Lübeck

ENCALS

European Network to Cure ALS

POSTERS



CLINICAL MANAGEMENT AND SUPPORT (included in the posters session I)

PO001 Dissociation Between Functional Decline And Quality Of Life Dynamics In ALS

Alejandro Caravaca Puchades (1,2,3), Aina Ceballos Sánchez (1), Mònica Meseguer Martínez (1), Laia Pallarès Gayo (1), Raúl Domínguez Rubio (1), Mònica Povedano Panadés (1)

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2. Biomedical Research Institute of Bellvitge (IDIBELL), L'Hospitalet de Llobregat, Barcelona, Spain

3. Facultat de Medicina i Ciències de la Salut, Universitat de Barcelona (UB), Barcelona, Spain

PO002 Peak Inspiratory Flow: A Novel Marker For Early Detection Of Respiratory Dysfunction In ALS

Alessandra Maccabeo (1), Enrico Matteoni (1), Sara Cabras (1), Francesca Palumbo (1),

Antonio Canosa (1,2), Rosario Vasta (1), Emilio Minerva (1), Giorgio Pellegrino (1), Fulvia Ribolla (3),

Michela Bellocchia (3), Giuseppe Tabbia (3), Paolo Solidoro (3), Marco Michele Bardesson (3),

Cristina Moglia (1,2), Andrea Calvo (1,2), Adriano Chiò (1,2), Umberto Manera (1,2)

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3. S.C. Pneumologia U, AOU Città della Salute e della Scienza of Torino, Turin, Italy

PO003 Palliative Home Visits And Survival In ALS: Insights From A Tertiary ALS Centre

Ana Kuder (1,2), Sara Kadenšek (1,2), Martin Kavcic (1,2), Lea Leonardis (1,2), Blaž Koritnik (1,2)

1. Institute of Clinical Neurophysiology, University Medical Centre Ljubljana, Ljubljana, Slovenia

2. Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia

PO004 Safety And Efficacy Of Tofersen In SOD1-Associated ALS: Real-World Data From The Valencian Community

Ana Merchán Cabanillas (1), Pilar Helena García Casanova (1), Carmina Díaz Marín (2),

Laura Lorente Gómez (3), Rosa María Vilar Ventura (4), Juan Francisco Vázquez Costa (1,5)

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2. Hospital General Universitario Doctor Balmis, Alicante, Spain

3. Hospital General Universitario de Elche, Alicante, Spain

4. Hospital General Universitario de Castellón, Castellón, Spain

5. Center for Biomedical Network Research in Rare Diseases (CIBERER), Valencia, Spain

PO005 Co-Designing A Psychoeducational Intervention For Complex Symptoms In ALS/FTD: Family Carers' Experiences And Needs

Ana Paula Trucco (1), Tamara Backhouse (1), Eneida Mioshi (1,2)

1. University of East Anglia, Norwich, United Kingdom

2. Ativar Consulting Ltd, Norwich, United Kingdom

P0006 Role Of Personalized Nutritional Support In The Short-Term Clinical And Metabolic Evolution Of Amyotrophic Lateral Sclerosis

Rachele Piras (1), Ares Pavesi (1), Francesca Dondo (2), Andrea Sini (1), Paola Mariani (1), Paolo Magni (2), Christian Lunetta (1)

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2. Università degli Studi di Milano Statale, Milano, Italy

P0007 The ALS Home Health And Durable Medical Equipment Medical Standard Expert Consensus Guideline Task Force

Björn Oskarsson (1), Ileana Howard (2), Sara Feldman (3), Jill Goslinga (4), Max Greene (5), Megan Allyse (1), Joyce Khowdee (6), Dominic Ferrey (7), Janice Bell (8), Orla Tonkykh (8), Jessica Famula (8), Heather Young (8)

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3. Temple University, Philadelphia, United States

4. UCSF, San Francisco, United States

5. Stanford University, Palo Alto, United States

6. Loma Linda University, Loma Linda, United States

7. UCSD, San Diego, United States

8. UCD, Sacramento, United States

P0008 Performance Of Three Generic Fatigue Questionnaires In Amyotrophic Lateral Sclerosis

Camilla Wohnrade, Anastasia Sarikidi, Mahsa Soltani, Bogdan Bjelica, Susanne Petri

Hannover Medical School, Hannover, Germany

P0009 Cognitive Dysfunction Is Associated With An Underestimation Of Respiratory Function In ALS

Inês Alexandra Ribeiro Lopes Alves, Horácio Jesus, Diana Lopes, Sara Simão, Ana Catarina Leitão, Ana Catarina pronto-Laborinho, Vasco Conceição, Miguel Oliveira Santos, Mamede De Carvalho

Institute of Physiology, MUHCRI and Centro de Estudos Egas Moniz. Faculty of Medicine, University of Lisbon, Lisbon, Portugal., Lisbon, Portugal

P0010 Sleep Disturbances And Respiratory Dysfunction In Amyotrophic Lateral Sclerosis

Kato Bracaval (1,2), Joke De Vocht (1,2), Fouke Ombelet (1,2), Laura Van Den Bulcke (3), Anne-Marie Peeters (3), Boris Deleu (2), Bart Vrijisen (4), Alexandros Kalkanis (4,5), Bertien Buyse (4,5), Dries Testelmans (4,5), Maarten Van Den Bossche (3,6), Philip Van Damme (1,2)

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3. Geriatric Psychiatry - University Psychiatric Center - KU Leuven, Leuven, Belgium

4. Department of Respiratory Diseases - Leuven University Center for Sleep and Wake Disorders - UZ Leuven, Leuven, Belgium

5. Respiratory Disease and Thoracic Surgery (BREATH) - Department of Chronic Diseases and Metabolism - KU Leuven, Leuven, Belgium

6. Neuropsychiatry - Department of Neurosciences - Leuven Brain Institute - KU Leuven, Leuven, Belgium

P001 PhysioAssess: Use Of Standardized Assessments In Patients With Neuromuscular Diseases: Does This Support More Targeted Treatment?

Kirsten Großmann (1,2), Maj-Britt Bartels (2), Maike Breede (1), Anna Magdalena Hagemann (1), Greta Korte (1), Chelsea Walter (1,2), Janina Von Der Gablentz (2), Julia Meyer (2), Bernhard Elsner (1), Isabelle Buchholz (2), Julian Großkreutz (2)

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P0012 A Two Year Experience Of Tofersen Treatment In Patients With SOD1 ALS

Magdalena Kuzma-Kozakiewicz (1), Malgorzata Dorobek (2), Anna Gruszczak (2), Justyna Zielinska (2), Halina Bartosik-Psujek (3), Tomasz Garbacz (3), Kamila Zur-Wyrozumska (4,5), Dariusz Koziorowski (6), Anna Dutkiewicz (7), Ewa Krzyzanowska (7), Blazej Poczatek (8), Anetta Lasek-Bal (9,10), Agata Migacz (10,9), Sebastian Student (11,12), Magdalena Koszewicz (13,14), Jakub Ubysz (13,14), Krzysztof Szabat (15)

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15. Department of Neurology, 7th Naval Hospital, Gdansk, Poland

P0013 Venous Thromboembolism In Patients With Amyotrophic Lateral Sclerosis: A Descriptive Study From A Multidisciplinary ALS Unit

Maria Hernandez Barral (1), Maria Alejandra Castillo Ramirez (2), M^a Antonia Gomez Mendideta (2), Ana Santiago Recuerda (2), Maria Martinez Redondo (2), Yolanda Martinez Abad (2), Maria Varela Cerdeira (3), Rosario Urbez Mir (4), Javier Mascias Cadavid (1)

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**P0014 Frequency And Causes Of Hospitalization In Patients With ALS:
A Retrospective Study From A Chilean Public Hospital**

Maria Jose Cuello (1), Bastian Navarrete (1), Fabian Rubilar (2), Azucena Salvatierra (1)

1. Hospital Carlos Van Buren, Valparaiso, Chile

2. Advanced Center for Electrical and Electronic Engineering, Valparaiso, Chile

**P0015 Agile ALS Care: A Dynamic Resource Allocation Model For Multidisciplinary ALS
Management In Resource-Constrained Healthcare Settings**

Maria Jose Cuello (1), Fabian Rubilar (2), Azucena salvatierra (1)

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2. Advanced Center for Electrical and Electronic Engineering, Valparaiso, Chile

**P0016 Dextromethorphan/Quinidine For Bulbar Symptom Control In ALS Using Remote
ALSFRS-R Self-Assessments**

Marie-Thérèse Henke (1,2), Susanne Spittel (2,1), Torsten Grehl (3), Ute Weyen (4),

Annekathrin Rödiger (5,6), Susanne Petri (7,8), Patrick Weydt (9,10), Bettina Meike Görlicke (11),

Hanna Lapp (12), Julian Grosskreutz (13), Paul Lingor (14,15), Martin Regensburger (16), Uta Smesny (5),

Robert Steinbach (5), Sarah Bernsen (9,10,1), André Maier (1), Thomas Meyer (1,2)

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P0017 Sleep-Disordered Breathing And Non-Invasive Ventilation In ALS: A Preliminary Study Of Clinical And Phenotypic Variability

Martin Kavcic (1,2), Sara Kadensek (1,2), Ana Kuder (1,2), Blaz Koritnik (1,2), Lea Leonardis (1,2)

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P0018 Patient-Reported Feasibility Of Orodispersible Riluzole In The Presence Of Sialorrhea

Matteo Zanovello, Federica Paredi, Giacomo Maria Minicuci, Gianni Soraru'

University of Padova, Padova, Italy

P0019 ERN EURO-NMD Patient Activities: A Focus On Motor Neuron Diseases

Michelangelo Mancuso (1,2), Cecilia Carlesi (1), Francesca Bianchi (1), Gabriele Siciliano (2)

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2. University of Pisa, Pisa, Italy

P0020 Cross-Cultural Validation Of The Italian Version Of The "Clinical Assessment Of Dysphagia In Neurodegeneration" Tool

Micol Castellari (1), Ares Pavesi (1), Sara Debue (1), Valentina Rivolta (1), Davide Mongelli (2),

Rosanna Falcone (2), Manuela Locatelli (3), Sara Pezzotta (3), Elena Verzi (3), Carlo Robotti (4),

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5. Università Statale di Milano, Milano, Italy

P0021 The Inclusion Of Social Determinants Of Health Enhances The Precision Of Clinical Outcomes In Real World Data _ PRECISION ALS

Miriam Galvin (1), Sarah Azzezene (1), Mark Heverin (1), Ronan McDonnell (2)

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P0022 Revisiting Prognosis In ALS: Does Gastrostomy Modify ENCALS Survival Predictions?

Alice Girbal, Pereira Bruno, Annaick Desmaison, Nathalie Guy

chu de clermont ferrand, Clermont Ferrand, France

P0023 Radiologically Inserted Gastrostomy In Advanced Amyotrophic Lateral Sclerosis: Clinical Outcomes Within A Multidisciplinary Palliative Care Model

Pilar Carbajo Gullon (1), Yolanda Moran Benito (2), Laura Urraco Nieto (3),

M^a Antonia Gomez Mendieta (4), Ana Santiago Recuerda (4), Alberto Alonso Babaro (5),

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P0024 Day-To-Day Temperature Rise Triggers Amyotrophic Lateral Sclerosis Mortality: A Case-Crossover Study

Robert Steinbach (1), Maximilian Dimitrov (1), Benjamin Ilse (1), Annekathrin Rödiger (1,2), Uta Smesny (1), Julian Grosskreutz (1,3,4), Florian Rakers (1)

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P0025 User Expectations Of Eye-Control Glasses For Complex Power Wheelchairs In People With Amyotrophic Lateral Sclerosis: A Multicenter Observational Study

Ronja Schiemann (1), André Maier (2), Thorsten Grehl (3), Hanna Sophie Lapp (4), Patrick Weydt (5,6), Sarah Bernsen (5), Susanne Petri (7), Bogdan Bjelica (8), Rea Lumi (8), Ute Weyen (9), Annekathrin Rödiger (10,11), Uta Smesny (10), Robert Steinbach (10), Anne-Dorte Sperfeld (12), Dagmar Kettemann (2), Jenny Norden (2), Thomas Meyer (1,2), Susanne Spittel (1,2)

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P0026 Motor Performances Of Patients With Amyotrophic Lateral Sclerosis Using Different Riluzole Formulations: A “real-World” Longitudinal Analysis

Rosaria Notariale (1), Maria Agnese Pirozzi (1), Roberta Pepe (2), Minoo Sharbafshaaer (1), Carla Passaniti (1), Alessandro Tessitore (1,2), Francesca Trojsi (1,2)

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PO027 Clinical Characteristics, Social Impact And Caregiving Burden In Locked-In And Complete Locked-In Syndrome ALS Patients

Rossella Spataro (1), Sofia Tomasello (1), Giorgio Mandalà (1), Dorothée Lulé (2), Vincenzo La Bella (3)

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PO028 Italy's First International ALS Online Seminar Series: SLA In Chiaro By Associazione ConSLancio Onlus

Rossella Spataro (1,2), Tiziana Petrozziello (3), Lucilla Vestito (3), Michele Messmer Uccelli (3),

Roberta Schellino (3), Marina Boido (3), Silvia Pozzi (3), Marco Peviani (3), Daisy Sproviero (3),

Vittoria Lombardi (3), Monica Consonni (3), Jessica Mandrioli (3), Fabiola De Marchi (3),

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PO029 Treatment Response To Tofersen In Respiratory Onset Amyotrophic Lateral Sclerosis And A Variant Of Unknown Significance In SOD1

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PO030 Longitudinal Real-World Evaluation Of Remote Digital ALSFRS-R Self-Assessment Using The ALS App

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P0031 Functional Decline Vs. Perceived Burden: A Domain-Specific Analysis Of ALSFRS-R And ALSAQ-40

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P0032 Home-Based Non-Sedated Tracheostomy Tube Replacement In Patients With Amyotrophic Lateral Sclerosis: A Patient-Centered Multidisciplinary Care Model

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P0033 The Socioeconomic Resilience Phenomenon: How Income Modulates Functional Impact In ALS

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P0034 Determinant Factors Of Quality Of Life In Amyotrophic Lateral Sclerosis Within The Context Of Humanized Care: From Evidence To Experience

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P0035 Flail Leg Syndrome: A Case Report

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BIOMARKERS (included in the posters session II)

P0036 Protein-Based Patient Stratification In ALS Using Targeted Proteomics

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P0037 A MiRNA Signature In The Tear Fluid Of Patients With ALS

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P0038 Tau Blood Biomarkers Capture Disease Burden But Not Progression Dynamics In Amyotrophic Lateral Sclerosis

Bernat Bertran Recasens (1,2), Paula Ortiz-Romero (3,4), Ferran Lugo Hernández (3),

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P0039 Exploratory Endpoints From An Open-Label Phase 2a Study Of Fasudil In Amyotrophic Lateral Sclerosis

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P0040 Biomarkers Of Inflammasome Activation And Pyroptosis In Amyotrophic Lateral Sclerosis

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P0041 Characterising Neuro-Specific And Inflammatory Biomarkers To Define The Role Of The Immune System In ALS Progression

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P0042 Proteomic Profiling Of Tetraspanin-Captured Extracellular Vesicles Identifies Prognostic Biomarker Candidates In ALS

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P0043 Blood Monocyte Mitochondrial Morphology And Function In ALS: A Potential Biomarker For Clinical Stratification And Disease Monitoring?

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P0044 MicroRNA Biomarkers For ALS: From Systems Biology To Patient Derived Cells

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P0045 Investigating Network-Based ALS Subtypes Using Motor And Cognitive Event-Related Potentials

Gabriel Rodrigues Palma (1), Eva Woods (1), Meher Sabharwal (1), Sanya Dalal (1),

Narin Suleyman (1,2), Serena Plaitano (3), Marjorie Metzger (3), Leah Nash (3), Eileen Giglia (3),

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P0046 Plasma NfL, GFAP, And PTAU181 Capture Non-Overlapping Biological Processes In Amyotrophic Lateral Sclerosis

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P0047 Non-Coding RNA Profiling In Serum, CSF, Olfactory Mucosa, Tears And Skin Identifies Novel Molecular Signatures In Amyotrophic Lateral Sclerosis And Frontotemporal Dementia

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P0048 Osteopontin As An Independent Prognostic Biomarker In Amyotrophic Lateral Sclerosis

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P0049 A Comparison Of Speaking Rate Estimation Methods For ALS Speech

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P0050 Comprehensive Serum Proteomic Profiling Of MND Subtypes Interrogating Samples From The MND-SMART Platform Trial Using NUCleic Acid-Linked Immuno-Sandwich (NULISA) Technology

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P0051 Blood-Based Biomarkers Used As Outcome Measures In Interventional Clinical Trials For Motor Neuron Disease: A Systematic Literature Review Protocol And Preliminary Data

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P0052 Anchoring ALS Prognosis: Neurofilament Light Chain Outperforms Inflammatory, Metabolic And CNS Barrier Biomarkers In The METABALS Cohort

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P0053 Learning A Distance For The Clustering Of Patients With Amyotrophic Lateral Sclerosis

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P0054 Cell Free MiRNAs Are Pharmacodynamic Biomarkers For Enhanced Dicer Activity By Enoxacin In Human Patients With Amyotrophic Lateral Sclerosis

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P0055 Intrathecal Humoral Response And Blood-CSF Barrier Dysfunction In Amyotrophic Lateral Sclerosis

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P0056 Exploring Blood-Accessible CircRNAs As Minimally Invasive Biomarkers In ALS

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P0057 Evaluation Of Serum Cardiac Troponin T Levels As A Biomarker Of Phenotype Conversion In Presymptomatic ALS Gene Mutation Carriers

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P0058 Systematic Search And Meta-Analysis Of Proteomics Biomarker Discovery Targets In Blood Of Patients With Amyotrophic Lateral Sclerosis

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P0059 Secretome Biomarker Responses To Cellular Stress In iPSC-Derived Motor Neurons

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P0060 Intramuscular Myokine Profile And Muscle Vulnerability In End-Stage SOD1-G93A Mice Model

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P0061 - Circular RNAs As Potential Diagnostic Biomarkers In The ALS-FTD Spectrum

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P0062 Identification Of Novel Neuronal Markers Associated With Extracellular Vesicles In Amyotrophic Lateral Sclerosis

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P0063 Altered Salivary Cortisol As A Potential Biomarker Of HPA-Axis Dysregulation In Amyotrophic Lateral Sclerosis

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P0064 Clustering On CSF Biomarkers And Clinical Parameters Reveals A Signature Of Neuroinflammation

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P0065 Serum MiRNA Profiling Identifies MiR-19b-3p As A Potential Biomarker For Primary Lateral Sclerosis

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PO066 Exercise Intensity And Timing Influence Motor Function And Circulating Myokines In The SOD1-G93A Mouse Model Of Amyotrophic Lateral Sclerosis

Marina Díaz-Wallach, Antonio Pau-Butiñá, Meryem Jami-El Hirchi, Aleksandra Polishchuk, Carolina Silvera-Simón, Josep Tomàs, Maria Angel Lanuza, Laia Just-Borràs*, Erica Hurtado*
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PO067 IGFBP7 As A Nexus Biomarker Identifying A Coordinated Treatment Response Phenotype In ALS: Post-Hoc Exploratory Analysis From Regimen C Of The HEALEY Platform Trial

Marjan Sepassi (1), Richard Bedlack (2), Jinsy Andrews (3), Robert Bowser (4), Bernard Caparrel (3), Austin Rynders (1), Jacob Evan (1), Jeremy Evan (1), Alan Hartford (1), Michael Hotchkin (1), Benjamin Greenberg (5)

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PO068 Neurofilament Light Chain Trajectory Predicts Survival In ALS: Validation Across Independent Cohorts

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PO069 Nutritional Depletion And Iron Dysregulation As Independent Predictors Of ALS Progression Rate: Implications For Ferroptosis

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PO070 Intrathecal Immunoglobulin Synthesis During Tofersen Treatment In SOD1-ALS: Evidence From Serial Kappa Free Light Chain Index Measurements In A Multicentre Italian Cohort

Matteo Giacchino (1), Giulia Gianferrari (2,3), Elisabetta Zucchi (2), Ilaria Martinelli (2), Andrea Ghezzi (2,3), Teresa Urbano (2), Francesca Cocconi (2), Roberta Bedin (1,2), Gianni Sorarù (4), Christian Lunetta (5), Francesca Trojsi (6,7), Jessica Mandrioli (1,2)

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PO071 Integrative Multi-Evidence Framework For Therapeutic Target Prioritization In Amyotrophic Lateral Sclerosis

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PO072 MiRNA And CircRNA Involvement In ALS

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PO073 Translational Validation Of A PBMC Gene-miRNA Signature With Specificity And Accuracy For Diagnosis Of ALS

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PO074 Redox And Neurotrophic Biomarkers In Amyotrophic Lateral Sclerosis: Longitudinal Modulation Of Peripheral Nuclear Factor Erythroid 2-related Factor 2 (Nrf2)-Related Pathways Following Conjugated Linoleic Acid Supplementation

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PO075 Cerebrospinal Fluid TREM2 As A Candidate Neuroinflammatory Biomarker In Amyotrophic Lateral Sclerosis

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PO076 Longitudinal CSF And Serum Biomarker Dynamics In Tofersen Treated SOD1-ALS: A Real-World Multicentre Cohort Study

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P0077 Serum GFAP Captures Cognitive Vulnerability And Amyloid-Beta Co-Pathology Across The ALS-FTD Spectrum

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P0078 Establishing The Uses And Limitations Of Cryptic HDGFL2 As A Molecular Biomarker For Amyotrophic Lateral Sclerosis

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P0079 Implementation Of Serum Biomarkers NfL And GFAP Using The Lumipulse Platform To Reduce Diagnostic Delay And Improve Prognostic Prediction In ALS

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PO080 Tofersen In SOD1-ALS: Clinical Outcomes And Neurofilament Light-Chain Response In A Multicenter Observational Study Over 45 Months

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PO081 Intraindividual Fluctuations Of Neurofilament Light Chain In Amyotrophic Lateral Sclerosis: Implications For Repeat Measurements

Philipp Schmitt (1), Peggy Schumann (1), Torsten Grehl (2), Ute Weyen (3), Annekathrin Rödiger (4), Robert Steinbach (4), Patrick Weydt (5), Sarah Bernsen (1), Rachel Fabian (6), Bettina Göricke (7), Susanne Petri (8), Rea Lumi (8), Bogdan Bjelica (8), Julian Großkreutz (9), Péter Körtvélyessy (1), Thomas Meyer (1)

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P0082 - Characterising The Metagenomic Landscape Of Amyotrophic Lateral Sclerosis From Unmapped Whole Genome Sequencing Data

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P0083 Correlations Between Plasma Neurofilament Levels And ALSFRS-R Subscores Assessed During Supplementation With Conjugated Linoleic Acid In Amyotrophic Lateral Sclerosis

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P0084 Longitudinal GFAP Levels In SOD1-Related ALS Patients Treated With Tofersen: Case Studies

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P0085 Rationale For Digital Health Technology Assessments In FUNCTION ALS, A Phase 1/2 Trial Of TRCN-1023, An Antisense Oligonucleotide Restoring UNC13A, In Adult People Living With Amyotrophic Lateral Sclerosis

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**P0086 “Cruella” Deregulation Distinguishes Sporadic From SOD1-Linked ALS:
A Differential Diagnose Biomarker For SALS And ALS-Mimic Disorders**

Sergio Roca Pereira (1), Yaiza López Sampere (1), Pol Mengod Soler (1), Antonia Vinyals Rioseco (1), Marta Vela Martínez (1), Gisele Priscila Soares De Aguiar (2), Aina Huiyi Pros Marsal (1), Alejandro Caravaca Puchades (1), Raul Domínguez (3), Juan Francisco Vázquez Costa (4), Mónica Povedano Panadés (3), Pol Andrés Benito (5)

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**P0087 Cardiac Troponin T Tracks ALS Disease Dynamics: Towards Precision Biomarkers
Using The D50 Framework**

Sofia Waldorf (1), Julia Meyer (2), Janina Von Der Gablenz (2), Torsten Grehl (3), Huelya Nazlican (3), Thomas Meyer (4), Julian Grosskreutz (2), Patrick Weydt (1), Sarah Bernsen (1)

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**P0088 Integrated CSF–Blood Immune Profiling Reveals Immune Signatures Associated
With Clinical Response To IL-2 Therapy In ALS**

Timothy Tree (1), Yoana Arroyo Berdugo (1), Irma Pujol (1), Christine Payan (2), Phuong Pham (3), Janine Kirby (4), Pamela Shaw (5), Andrea Malaspina (6), Ammar Al-Chalabi (7), Nigel Leigh (8), Gilbert Bensimon (9)

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P0089 Investigating The Role Of Cytokines As A Potential Biomarker In ALS

Triparna Roy (1), Debarghya Kumar Chakraborty (2), Mina Maaref Doost (1), Anna Carobin (1), James Bashford (1), Ahmad Al Khleifat (1)

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- P0090 Association Between HERV-K Expression And Neurofilament Light Chain Levels In Amyotrophic Lateral Sclerosis**
Triparna Roy, Mina Maaref Doost, Ammar Al-Chalabi
King's College London, London, United Kingdom
- P0091 The KCL MND Biobank: An Expanding Resource For Translational Motor Neuron Disease Research**
Triparna Roy, Mina Maaref Doost, Claire Troakes, Andrea Biondi, Amber Collingwood, Ammar Al-Chalabi
King's College London, London, United Kingdom
- P0092 Lighting Up Mislocalized TDP-43: Quantum Dot Probes For Multiplexed Cytoplasm-Selective Cell Profiling In ALS**
Valle Palomo (1), Paula Fernández-Gómez (1), Carlota Tosat-Bitrian (1), Tania Marugán (1), Laura Fernández-Hernández (2), Juan I Lopez-Carbonero (2), Jose A Martínez-Mulero (3), Jaime Pignatelli (3), Silvia Corrochano (2)
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- P0093 Prediction Of Inflammatory Subtypes Of Amyotrophic Lateral Sclerosis Using Machine Learning And Deep Learning On Histological Images**
Víctor Verdú-Samper (1,2), Shruti Sunil (1), Ana Manzollillo (1,2), Jemimah Kuruvilla (1), Vijaya Jagadeesan (1), Jenna Gregory (3), Kristine Roberts (3), Marta Vallejo (1)
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- P0094 Directional Sensorimotor Network Alterations In ALS Revealed By A Combined EEG-EMG Connectivity Framework**
Zahra Eshagh Nimvari (1), Saroj Bista (1), Amina Coffey (1), Serena Plaitano (1), Rosie giglia (1), Nina madeddu (1), Marjorie Metzger (1), Prabhav Mehra (1,2), Orla hardiman (1), Bahman Nasserroleslami (1,2)
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CLINICAL TRIALS AND TRIAL DESIGN (included in the posters session I)

PO095 Targeting Neuroinflammation With Enhanced Delivery Of Intravenous Immunoglobulin To The Motor Cortex Using Next-Generation Focused Ultrasound In ALS: A Phase I Trial

Aguessandro Abrahao (1,2), Pedro Saldanha-Castro (1), Ryan M. Jones (3), Dallan McMahon (3), Yuexi Huang (3), Denizart Santos-Neto (4), Jahan Mookshah (5), Caroline Giuricich (5), Liane Phung (5), Matheus Chupel (5), Isabelle Aubert (5), Maheleth Llinas (5), Kullervo Hynynen (5), Nir Lipsman (2,6), Lorne Zinman (5,7)

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PO096 Beyond The ALSFRS-R Slope: Multidimensional Structure Of Functional Decline In ALS

Alejandro Caravaca Puchades (1,2,3), Ammar Al-Chalabi (4,5), Adriano Chiò (6), Philippe Corcia (7), Orla Hardiman (8), Caroline Ingre (9), Christopher Mcdermott (10), Philip Van Damme (11,12), Leonard Van Der Berg (13,14), Mònica Povedano Panadés (1)

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PO097 Beyond The Hype: Real-World Evidence For Decentralized ALS/MND Research

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P0098 Sex-Specific Effects In ALS Clinical Trials: Protocol For A Systematic Review And IPD Meta-Analysis

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P0099 Phase 2 Biomarker And Clinical Results Of AP-101, A Human Antibody Targeting Misfolded SOD1 In Amyotrophic Lateral Sclerosis

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P0100 A Phase II Randomized Trial Of ILB® Versus Riluzole In Amyotrophic Lateral Sclerosis (IMPACT)

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P0101 NX210c, A Promising Drug Candidate For Neurodegenerative Diseases

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P0102 Modulation Of Oxidative Stress, Lipid Metabolism And Hormonal Profiles After Treatment With Liposomal Resveratrol-Curcumin Plus Dutasteride In ALS Patients

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P0103 SEA-NOBI-ALS Expanded Access Program Of Ibudilast (MN-166)

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P0104 A Study To Evaluate The Efficacy And Safety Of VHB937 In People With ALS: Baseline Data From The ASTRALS Double-Blind, Randomized, Placebo-Controlled Study

Marie-Laure Rouzade-Dominguez (1), Ram Miller (2), Marie-Emmanuelle Riviere (1), Francesca Callegari (1), Lucie Bruijn (1), Chrystel Fernandes (1), Alit Bhatt (3), Vanessa Vallejo (1), Orla Hardiman (4), Leonard H. Van Den Berg (5), Richard Bedlack (6), Merit Cudkowicz (7), Christophe Lo Bianco (1)

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P0105 First Qualitative Study Exploring Unmet Post-Trial Support Needs In ALS Patients And Caregivers

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P0106 Reliability, Validity, And Usability Of Hand Grip Strength: Comparing Supervised And Unsupervised Performance Across Four Dynamometers

Doreen Lemmen, Adine van den Bosch, Stephan Goedee, Jaap Bakers, Leonard van den Berg, Ruben van Eijk

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P0107 Optimizing Isometric Muscle Strength Assessments For Amyotrophic Lateral Sclerosis Clinical Trials: A Simulation-Based Approach

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P0108 SEALS: A Randomized, Double-Blind, Placebo-Controlled Phase 2 Study Evaluating Efficacy And Safety Of NX210c In Amyotrophic Lateral Sclerosis (ALS) Patients: Topline Results

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P0109 Functionally-Adjusted Life Years

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P0110 PRO-101, A Hybrid Phase 1 Study Evaluating The Safety, Tolerability, Pharmacokinetics, And Pharmacodynamics Of Prosetin In Participants With ALS

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P0111 Determinants Of Participation And Perceived Meaningful Benefit In ALS Clinical Trials: Toward A More Patient-Centric Study Design

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P0112 Domain-Specific Response To Tofersen In SOD1-ALS: Real-World Evidence From A Tertiary Center

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P0113 Real-World In-Trial Performance Of A Modern Measurement Of Speech Intelligibility In ALS

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P0114 Five Minutes Of Speech Screening Cuts Trial Costs In Half While Increasing Its Power

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P0115 FUNCTION ALS: A Phase 1/2 Trial Evaluating The Safety, Tolerability, Pharmacokinetics, Pharmacodynamics And Exploratory Efficacy Of TRCN-1023, An Antisense Oligonucleotide Restoring UNC13A, In Adult Persons With Amyotrophic Lateral Sclerosis

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P0116 Attitudes And Experiences Of Participants In The Motor Neuron Disease Systematic Multi-Arm Adaptive Randomised Trial (MND-SMART)

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P0117 Development And Validation Of A Stable And Clinically Applicable Classification Method With Personalized Prognostic Models For Amyotrophic Lateral Sclerosis

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P0118 Three Randomized Controlled Trials In Amyotrophic Lateral Sclerosis: A Comparative Analysis

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P0119 Advancing AMX0114 For ALS: Updates From The LUMINA Phase 1 Study

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PO120 A Phase 2a Study To Assess The Safety, Tolerability, Efficacy, Pharmacokinetics, And Immunogenicity Of Adimanebart In Adults With Amyotrophic Lateral Sclerosis: Study Results From ReALiSe

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PO121 Interim Results From ANQUR: A Phase 1 MAD And Dose Range Finding Study To Assess Safety, Tolerability, Pharmacokinetics And Efficacy Of QRL-201, A STMN2 Targeting Splice Switching ASO For The Treatment Of Sporadic And C9orf72 ALS

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PO122 Barriers To Participation In Phase 1 Clinical Trials In Amyotrophic Lateral Sclerosis
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PO123 Composite Speech Biomarkers For ALS: Reliability, Measurement Error, And Generalization From Natural History To Clinical Trial

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PO124 PREVAiLS (Pridopidine Phase 3 Study To Evaluate Efficacy And Safety In ALS) A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study In ALS

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PO125 Results From QRL-101-04: Evidence Of Target Engagement With A Selective Kv7.2/7.3 Ion Channel Opener In ALS Patients

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PO126 Long-Term (5 Years) Evaluation Of Tofersen In SOD1-ALS: Final Results From The Integrated Analysis Of Study 101 Parts A/B, A Phase 1/2 Ascending Dose Trial, And The Open-Label Extension

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P0127 Augmented Placebo Control Using Synthetic Patient Profiles In ALS Clinical Trials: A Methodological Framework

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P0128 Compassionate Use Of C9ORF72 Targeted ASOs In ALS – Experience From Eight Patients At Three German Centers

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P0129 Understanding The Impact Of Modeling Choices In The Analysis Of Longitudinal Data With Informative Missingness In Amyotrophic Lateral Sclerosis

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P0130 Enhancing Enrollment In ALS Clinical Research: The Acceleration Centers Of Enrollment (ACE) Initiative

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P0131 Translating Clinical And Biomarker Insights Into Phase 3 Development Of A Multi-Targeted Therapy For Amyotrophic Lateral Sclerosis: The PrimeC Program

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P0132 Biological Pathways In Disease-Modifying Clinical Trials For Amyotrophic Lateral Sclerosis: A Systematic Review

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P0133 Design & Methodology of FUSION, a Study to Assess Efficacy and Safety of Antisense Oligonucleotide Ulefnersen in Amyotrophic Lateral Sclerosis with Fused in Sarcoma (FUS-ALS) Mutations

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PO134 Robust Digital Bulbar Monitoring In ALS Using A Minimal, Interpretable Speech Feature Panel

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PO135 Results From QRL-101-05: Proof Of Kv7.2/7.3 Peripheral And Cortical Excitability Modulation After A Single Dose At Two At Two Dose Levels Of QRL-101 In A 3-Way Cross Over Design Ph1 Healthy Volunteer Study.

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PO136 ALSTARS: A Precision Immunomodulatory Phase 2 Trial Of Coya 302 Targeting Regulatory T Cells And Neuroinflammation In ALS

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PO137 Clinical Development Of LTX-002, An ASO For The Treatment Of Sporadic And Familial Forms Of ALS

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PO138 Clinical Development Of LTX-001, A Small-Molecule GLS1 Inhibitor For The Treatment Of ALS

W Lawrence Severt, Laura D Heckman, Paul Yarabe

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DISEASE MECHANISMS (included in the posters session II)

PO139 Microsecond Molecular Dynamics Of SOD1 Variants Suggest A Structural Basis For Divergent ALS Clinical Outcomes

Abed Mosa (1), Richard Dobson (1), Konstantin Roeder (1), Edoardo Milanetti (2), Alfredo Iacoangeli (1)
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PO140 Investigating The Roles Of SCFD1 And G2E3 In ALS

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PO141 Gliotransmission Is Dysfunctional In Spinal Motor Networks Of Presymptomatic SOD1 Mice

Alyssa Corbett, Neela Murti, Carlotta Löer, Molly Roberts, Matt Broadhead, Gareth Miles
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PO142 Identifying Modifiers Of DNA Damage In A Zebrafish Model Of ALS

Lenja De Cock (1), Amber Landmeters (1), Joris Van Lindt (1), Elke Braems (1), Philip Van Damme (2), Ludo Van Den Bosch (1)
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PO143 Investigating Mitochondrial Involvement In ALS Using Human Genomics And Transcriptomics Data

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PO144 Characterising The Temporal Progression Of Synaptic Proteome Changes In A TDP-43-Driven ALS Model

Anna Mcfarlane (1), Zsofia Laszlo (1), Dinja Van Der Hoorn (1), Rebecca San Gil (2), Adam Walker (3), Chris Henstridge (1)
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PO145 Characterization Of The Molecular Mechanisms Leading To ELAVL4/HuD Altered Levels In Oxidative Stress Conditions With Possible Implications For Sporadic ALS

Beatrice Borhy (1), Adriano Setti (1), Oscar Wilkins (2,3), Simone Barattucci (2), Max Z. Y. J. Chien (2,3), Angelo D'Angelo (1), Daniele Piccolo (1), Alessandra Grosso (1), Emanuele Eufemi (1), Beatrice Silvestri (4), Pietro Fratta (2,3), Alessandro Rosa (1)
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P0146 STMN2 Protein Depletion Via Translation Deficits And Stress Granules Independent Of TDP-43 Loss Of Function

Brittany Ellis, Anna Avila, Wan-Ping Huang, Sabin John, Sam Bonsall, Rachel Hodgson, Vedanth Kumar, Johnathan Cooper-Knock, Robin Highly, Tatyana Shelkovich, SITraN, The University of Sheffield, Sheffield, United Kingdom

P0147 Motor Neuron-Intrinsic IFN-I Signalling Is Neuroprotective In The Early Phase Of ALS In Mice

Merle Bayer (1), Esra Tunaboylu (1), Jochen Weishaupt (1,2), Karin Danzer (1,2), David Brenner (1,2)
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P0148 Decoding A Pivotal Role Of Activity-Dependent Neuroprotective Protein (ADNP) In Microglial Polarization And Metabolic Reprogramming: Implications For ALS

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P0149 Characterising Regional And Synaptic Proteome Changes In A TDP43-Q331K Mouse Model

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2. Euan MacDonald Centre, Edinburgh, United Kingdom
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P0150 Characterising NMD Sensitivity Of TDP-43-Associated Cryptic Splicing In Human Motor Neurons Using Long-Read Sequencing

Eduard Jelinek, Tomas Solomon, Alexandros Frydas
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P0151 The N6-Methyladenosine Epitranscriptomic Landscape Of Skeletal Muscle In The SOD1G93A Mouse Model

Elisa Gascón (1,2,3,4), Janne Markus Toivonen (1,2,3,4), Laura Moreno-Martinez (1,2,3,4), Paula Aparicio (1,2,3,4), Gabriel Rada (1,2,3,4), Luis Folch-Cirujeda (1), Leticia Moreno (1,2,3,4), Pilar Zaragoza (1,2,3,4), Alberto García-Redondo (5,6), Ana Cristina Calvo (1,2,3,4), Rosario Osta (1,2,3,4)

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P0152 Investigating Lipid Dysregulation In ALS-FTD Derived Stem Cells

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P0153 Structural And Biophysical Characterization Of The Interaction Between Chchd10 And The C-Terminal Region Of Tdp-43 In Amyotrophic Lateral Sclerosis

Karen S Alarcon-Morales (1), Mauro Aguilera-Toste (2), Sara Pozo (2), Sara Martin-Ramos (1), Rodrigo Damian Garcia (2), Carolina Muguruza (2), Oscar Millet (1), Ganeko Bernardo-Seisdedos (2)

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P0154 How Toxic Metals Contribute To Immune Dysfunction In Amyotrophic Lateral Sclerosis

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P0155 ALS Linked SFPQ Loss Causes Neurodegeneration Via ADARB2 Depletion Independently Of RNA Editing

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P0156 Oligogenic Action Of Pleiotropic Neurodegenerative Repeat Expansions Via Cooperative RNA Phase Separation

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P0157 C9orf72 Hexanucleotide Repeat Expansion Disrupts The Astrocytic Glycolytic-Glyoxalase Axis In ALS

Hannah O. Timmons (1), Billie D. Ward (1), Trong Khoa Pham (2), Heather Walker (2), Kari E. Wong (3), Alexandros Siskos (4), Barnaby Read (1), Madiha Hussain (1), Paraskevi Klotsas (1), Mark O. Collins (2), Hector C. Keun (4), Pamela J. Shaw (1), Richard J. Mead (1), Scott P. Allen (1)

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P0158 Distinct Mitochondrial Responses To Immune Stimulation In FTD/MND Associated Human Microglia

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P0159 DP-43 Dysfunction Disrupts Brain Cholesterol Homeostasis And Is Exacerbated By A High-Fat Diet

Irene García-Toledo (1), Juan M. Godoy-Corchuelo (1,2), Laura Fernández-Hernández (1), Luis C. Fernández-Beltrán (1,3), Jesús Jiménez-Rodríguez (1), Karen Javaloyes-García (1), Ángeles Ocaña-Cara (1), Anna Fernández-Bernal (4), Estela Area-Gómez (5), Pablo Bascuñana (6), Silvia Corrochano (1)

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P0160 Region-Specific Activation Of Microglial Pyroptosis In ALS: Insights From TDP-43A315T Mice And Human Spinal Cord

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P0161 Serum Profiling Of TBK1-ALS Compared To Other Genetic Disease Forms Using Targeted Proteomics

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P0162 Novel TDP-43 Amyloid Polymorphs Uncover Aggregation Mechanisms In ALS

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P0163 A Distinct SPP1⁺ Microglial Subset Initiates CD44-astrocyte Crosstalk In ALS

Jianing Lin, Kuo Liao, Stefan Bencina, Robert Harris, Sebastian A. Lewandowski
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P0164 Exon Level Differential Expression Reveals Isoform Specific Dysregulation And Convergent Neuronal Pathways In Amyotrophic Lateral Sclerosis

John Khattar Jammal, Aminah Ali, Simon Topp, Claire Troakes, Ahmad Al Khleifat, Ammar Al-Chalabi, Alfredo Iacoangeli

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P0165 C9orf72 Repeat Expansion Affects Immune Response In A Xenografted Microglia Mouse Model

Laura Fumagalli (1), Baukje Bijmens (1), Tim Meese (1), Maxim Van Hoek (1), Paula Polanco Miquel (1), Bob Asselbergh (1), Simona Manzella (1), Siddharthan Chandran (2), Leonard Petrucelli (3), Renzo Mancuso (1)

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P0166 Functional Alterations At The Neuromuscular Junction Following TDP-43 Depletion

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PO167 ALS Associated TDP-43Q331K Mutation Disrupts MAM Localization And Alters Lipid Metabolism And Mitochondrial Function

Marta Torres-Montiel (1), Anna Fernàndez-Bernal (1), Miriam Ceron-Codorniu (1), Natalia Mota-Martorell (1), Pascual Torres (1), Chiara Rossi (1), Estela Area-Gomez (2), Abraham Acevedo-Arozena (3)

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PO168 Can A Revolution In Sports Medicine, Optimising Lactate Metabolism, Be Applied To Amyotrophic Lateral Sclerosis?

Michael Spedding

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PO169 Mitochondria-Associated Membranes As Central Hubs Of Cholesterol And Sphingolipid Dysregulation In ALS

Miriam Ceron-Codorniu (1), Anna Fernàndez-Bernal (1), Pascual Torres (1), Marta Torres-Montiel (1), Natalia Mota-Martorell (1), Estela Area-Gomez (2), Reinald Pamplona (1), Manuel Portero-Otín (1)

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PO170 Uncovering RNA Dysregulation In The ALS Cerebellum Using Integrated Short- And Long-Read RNA-Seq

Natalie Grima (1), Andrew N Smith (1), Claire E Shepherd (2,3), Lyndal Henden (1), Dominic B Rowe (1), Matthew C Kiernan (2,4,5), Ian P Blair (1), Kelly L Williams (1)

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P0171 Monoaminergic Modulation Mitigates TDP-43 Mislocalization In A Targeted Drug Screen For Amyotrophic Lateral Sclerosis

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P0172 Effect Of Pharmacological Inhibition Of The ISR Kinase GCN2 In The ALS Transgenic Mouse Model SOD1G93A

Nuria Peregrín Pastor (1), Sergio López De Davalillo (2), Iranzu González Cuñado (3), Tomás Aragón Amonarriz (2), Montse Arrasate Iragui (2)

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P0173 Identifying Disease Mechanisms In C9ORF72 ALS/FTD And SALS Using Spatial Transcriptomics With Single Cell Resolution

Olatz Arnold-Garcia, Stephen Moore*, Sonia Vazquez-Sanchez*, Michael Baughn, Carlos Chillon-Marinias, Katelyn Mcnair, John Ravits, Jone Lopez-Erauskin, Bogdan Bintu, Don Cleveland*

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P0174 Identifying Disease Mechanisms In Degenerating Motor Axons Of Sporadic And C9ORF72 ALS Using Multimodal Spatial Omics

Olatz Arnold-Garcia, Michael Baughn, Melissa Mcalonis, Anita Hermann, Bogdan Bintu, John Ravits, Don Cleveland, Jone Lopez-Erauskin**

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P0175 ATG5 Links Autophagy To RAN Translation And RNA Toxicity In ALS/FTD Models

Enrique Carretero-Morán (1,2), Andrés Jiménez-Zúñiga (3,4), Alberto Giménez-Bejarano (1,2,4), Livvy Houghton (5,6), Sofia Konstantinidou (5,6), Tania Matamoros (7), Héctor Foronda (4), Miguel Domínguez-Eugenio (1), Javier Ojalvo-Pacheco (1,2), Ana Baz-Matamoros (1), Carmen Paradas (8), Gorka Gereñu (3,4,9), Sarah Mizielińska (5,6), Patricia Gómez-Suaga (1,2,4,5)

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PO176 Understanding The Role Of TDP 43 N-Terminal Fragments In ALS: From Aggregates To Cellular Toxicity

Anna A Chami, Lea Bedja-Iaconna, Elodie Richard, Debora Lanznaster, Sylviane Marouillat, Charlotte Veyrat-Durebex, Christian R Andres, Philippe Corcia, Hélène Blasco, Patrick Vourc'H
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PO177 Transcriptomic Analysis Identifies Region-Dependent Alterations In Primary And Secondary Regions Affected In The ALS-FTD Spectrum Involving Canonical Transcripts And Cryptic Exons

Pol Mengod-Soler (1,2), Julia Sala-Jarque (3,4), Antonia Vinyals (1,2), Sergio Roca-Pereira (1,2), Yaiza López-Sampere (1,2), Marta Vela-Martínez (1,2), Leila Romero-Elkhayat (5,6), Maya Aryanfar (3,4), Farida Dakterzada (5,6), Gerard Piñol-Ripoll (5,6,7), Kenneth S. Kosik (3,4), Mónica Povedano (1,2,8), Pol Andrés-Benito (2,5)

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PO178 Neuroxome: Small Extracellular Vesicles As Intercellular Communication Between Motor Neurons And Skeletal Muscle

Valeria Monreal-Bibián (1), Aída Girón-Santiago (2), Raquel Manzano (3,4,5,6)

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- P0179 Sigma-1 Receptor Stimulation Rescues FTD/ALS Mutant TDP43-Induced Disruption Of The VAPB-PTPIP51 ER-Mitochondria Tethering Proteins Via Inhibition Of GSK3b**
Raquel Martinez-Serra (1), Philippe Gosset (1), Kerry Blair (1), Sandra Martin Guerrero (1), Chris Miller (1), Andrea Markovinovik (2)
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2. University Rijeka, Rijeka, Croatia
- P0180 Long Interval Intracortical Inhibition Is Similar In People With And Without Amyotrophic Lateral Sclerosis**
Roisin Mc Mackin (1), Yasmine Tadjine (1), Narin Suleyman (1), Eva Woods (1), Serena Platiano (1), Antonio Fasano (1), Friedemann Awiszus (2), Orla Hardiman (1), Richard G. Carson (1)
1. Trinity College Dublin, Dublin, Ireland
2. Otto-von-Guericke-University, Magdeburg, Germany
- P0181 Simulating ALSFRS-R Item-Level Data Using Longitudinal IRT To Develop A Novel Win Ratio Endpoint For ALS Trials**
Rong Liu, Yihan Tang, Yanping Chen, Shunguang Wang
Regeneron, Tarrytown, United States
- P0182 TDP-43 Mislocalization In Neurodegeneration Initiated By Its Acetylation By CREBBP**
Sonia Vazquez-Sanchez, Sitao Zhang, Jaisen Lim, Don W. Cleveland
UCSD, San Diego, United States
- P0183 - Extracellular Vesicles From C9ORF72 ALS Patient iPSC-Derived Motor Neurons Induce Apoptosis In Healthy Neurons**
Suzy Varderidou-Minasian, Lars Gal, Gina Rondei, Michell Forgione, Natalia Van Dijk, Jeroen Pasterkamp
UMCU, Utrecht, The Netherlands
- P0184 Glial Dysfunction In ALS: TDP-43 Mislocalisation Impairs Oligodendrocyte Maturation And Disrupts Myelin Gene Expression**
Tania Atienzar (1), Jonathan Mill (2), Akshay Bhinge (1,2)
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2. University of Exeter Medical School, Exeter, United Kingdom
- P0185 Protein Aggregation Patterns In The Medulla Across ALS Genotypes**
Tatiana Langerova, Fiona L Read, Jenna M Gregory
University of Aberdeen, Aberdeen, United Kingdom

- P018 A Multidimensional Deep Mutational Scanning Of The ALS Protein SOD1: Dissecting The Effect Of Mutations On Protein Abundance And Dimer Formation**
Tomás Quiroga (1), Laz Ashcroft (2), Lauren Rice (2), Mariano Martín (1), Bryony Thompson (3), Luke Mcalary (2), Benedetta Bolognesi (1)
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2. University of Wollongong, Wollongong, Australia
3. Royal Melbourne Hospital, Melbourne, Australia
- P0187 Long-Read Sequencing To Investigate Aberrant Splicing Caused By TDP-43 Depletion In iPSC-Derived Cortical And Spinal Neurons**
Tomas Solomon, Alexandros Frydas, Eduard Jelinek, Sarah Julia Marzi
King's College London UKDRI, London, United Kingdom
- P0188 M6A-Dependent RNA Condensation Underlies FUS Autoregulation And Can Be Harnessed For ALS Therapy Development**
Wan-Ping Huang (1), Vedanth Kumar (2), Michaela Müller-Mcnicoll (3), Eugene Makeyev (4), Tatyana Shelkovernikova (1)
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2. Sheffield Institute for Translational Neuroscience, University of Sheffield, Sheffield, United Kingdom
3. Institute of Molecular Biosciences, Goethe University, Frankfurt, Germany
4. King's College London, London, United Kingdom
- P0189 Proteomic Analysis Shows FUS Over-Expression In Fibroblasts From ALS Patients With And Without FUS Variants**
Viviana Greco (1), Paolo Niccolò Doronzio (2), Giuseppe Marangi (2), Amelia Conte (3), Katia Patanella (3), Andrea Urbani (1), Mario Sabatelli (4)
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4. Institute of Neurology, Catholic University of the Sacred Heart, Rome, Italy
- P0190 Proteomic And Histological Profiling Of The ALS Visual Cortex Reveals Early Presynaptic Dysfunction And White Matter Atrophy**
Zsofia Laszlo (1), Anna Avila Sanchez (1,2), Anna Mcfarlane (1), Tom Gillingwater (3), Chris Henstridge (1)
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2. University of Sheffield, Sheffield, United Kingdom
3. University of Edinburgh, Edinburgh, United Kingdom

COGNITION (included in the posters session I)

- P0191 Silent Echoes Of The Day: Dream Content Analysis In Amyotrophic Lateral Sclerosis**
Alessandro Bombaci (1,2), Alessandra Giordano (3), Ilaria Lavallo (3), Alice Magnino (3), Andrea Calvo (4), Adriano Chiò (4), Alessandro Cicolin (3)
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 3. Sleep Medicine Centre, “Rita Levi Montalcini” Department of Neuroscience, University of Torino, Torino, Italy
 4. Turin ALS Centre, “Rita Levi Montalcini” Department of Neuroscience, University of Torino, Italy
- P0192 Different Contribution Of Nucleus Accumbens And Amygdala Subnuclei To The Emergence Of Positive And Negative Behavioural Symptoms In Amyotrophic Lateral Sclerosis**
Alessio Maranzano (1), Giulia Scacciatella (2), Alessandro Cocuzza (3), Massimiliano Passaretti (4), Silvia Torre (1), Edoardo Niccolo Aiello (1), Claudia Maria Cinnante (5), Joana Braga Pereira (4), Vincenzo Silani (6), Federico Verde (1), Barbara Poletti (1), Nicola Ticozzi (1)
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 6. Department of Pathophysiology and Transplantation Dino Ferrari Center, Università degli Studi di Milano, Milan, Italy
- P0193 Exploring The Role Of Cognitive Reserve In C9ORF72-Related Amyotrophic Lateral Sclerosis: A 2-[18F]FDG-PET Study**
Antonio Canosa, Grazia Zocco, Stefano Callegaro, Umberto Manera, Rosario Vasta, Francesca Palumbo, Sara Cabras, Enrico Matteoni, Alessandra Maccabeo, Giorgio Pellegrino, Emilio Minerva, Anastasia Dei Giudici, Vita Passidomo, Barbara Iazzolino, Marco Pagani, Cristina Moglia, Andrea Calvo, Adriano Chiò
 University of Turin, Turin, Italy
- P0194 Integrating Mind And Care: Assessing The Role Of Cognitive And Psychological Factors In Shaping Advance Directives Among Patients With Amyotrophic Lateral Sclerosis**
Debora Pain (1), Alice Radici (2), Rachele Piras (1), Irene Piazza (1), Carola Parisi (1), Beatrice Marangon (1), Chiara Cerami (2), Christian Lunetta (3)
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P0195 When Emotions Drive Moral Decisions: Characterizing The Socio-Affective Moral Profile In Amyotrophic Lateral Sclerosis

Andrea Panzavolta (1), Alice Radici (2), Claudia Meli (3), Giulia Funghi (3), Alessandra Dodich (3), Christian Lunetta (1), Chiara Cerami (1,2)

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P0196 Dual-Task Gait Impairment In ALS: Evidence Of Cognitive-Motor Interference

Edoardo Gioele Spinelli (1,2), Elisabetta Sarasso (1,2), Andrea Gardoni (1), Maria Odierno (2), Elisa Canu (1), Tommaso Russo (1), Paride Schito (1), Yuri Falzone (1), Massimo Filippi (1,2), Federica Agosta (1,2)

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P0197 Motor Reserve Might Be Associated With Memory Status In ALS Patients

Monica Consonni (1), Barbara Poletti (2,3), Edoardo Nicolò Aiello (2), Veronica Faltracco (1), Silvia Torre (2), Alessandra Telesca (4,5), Federico Verde (2), Alessio Maranzano (2), Stefano Messina (2), Alberto Doretti (2), Claudia Morelli (2), Nilo Riva (1), Eleonora Dalla Bella (1), Vincenzo Silani (2,6), Giuseppe Lauria (1,7), Nicola Ticozzi (2,6)

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P0198 Correcting For Practice Effects Reveals Potential Cognitive Decline In ALS: Longitudinal ECAS Findings

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P0199 Theory Of Mind Impairment Related To C9orf72 Repeat Expansion In Amyotrophic Lateral Sclerosis: A Case-Control Study.

Francesca Palumbo, Barbara Iazzolino, Antonio Canosa, Umberto Manera, Rosario Vasta, Maurizio Grassano, Enrico Matteoni, Sara Cabras, Alessandra Maccabeo, Giorgio Pellegrino, Anastasia Dei Giudici, Stefano Callegaro, Luisa Balz, Cristina Moglia, Adriano Chiò, Andrea Calvo, Dorothee Lulé
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P0200 Domain-Specific Cognitive Performance And Decision-Making In ALS: Associations With Life-Sustaining And End-Of-Life Choices

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P0201 Patterns Of Cognitive Impairment In ALS: ECAS Findings From An Uruguayan Referral Centre

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6. Unidad Académica de Histología y Embriología - Facultad de Medicina - Universidad de la República, Montevideo, Uruguay

P0202 Mild Behavioral Symptoms (MBI) Drive Caregiver Burden (CB) And Psychological Distress In Amyotrophic Lateral Sclerosis (ALS): A Longitudinal Network Analysis Approach

Myriam Spisto (1), Lucia Aruta (2), Valentina Virginia Iuzzolino (2), Gianmaria Senerchia (2), Fabiana Panico (2), Valeria Scodes (2), Elena Salvatore (2), Pasquale Moretta (3), Luigi Trojano (1), Raffaele Dubbioso (2)

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P0203 The Relationship Between Apathy Subtypes, Anhedonia And Negative Mood In Amyotrophic Lateral Sclerosis

Ratko Radakovic (1,2,3,4), Saúl Marín Esteban (5), Francisco Rodríguez-Santos (5), Ariana Vargas Paredes (5), Sharon Abrahams (2,6), Teresa Salas Campos (5)

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P0204 Digital Remote Validation And AI-Assisted ECAS Copilot: Toward Standardized Cognitive Monitoring In ALS

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P0205 The Effect Of Cognitive Support Strategies In Decision-Making To Consent To A Gastrostomy In Motor Neuron Disease

Natalene Ashok Vaswani (1), Milena Contreras (1,2,3), Brogan Brown-Blair (1), Sharon Mulhern (2,4), Julyan Everett (4), Judy Newton (2), Suvankar Pal (2), Theresa Chiwera (3), Ammar Al-Chalabi (3), Sharon Abrahams (1,2)

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GENETICS AND GENOMICS (included in the posters session II)

PO206 Epigenetic Regulation In The ALS Brain: Identifying Novel Cell Type-Specific Targets

Alexandros Frydas (1,2), Tomas Solomon (1,2), Claire Troakes (2), Sarah Marzi (1,2)

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PO207 Somatic Nuclear Single Base Substitutions During Development In Amyotrophic Lateral Sclerosis

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PO208 Global Taskforce On Genetic Counselling And Testing In ALS/MND: Developing Consensus-Based Guidelines

Ammar Al-Chalabi (1,2), Kristiana Salmon (2,3), Martina De Majo (2), Cathy Cummings (2)

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PO209 Prevalence Of ALS Gene Variants In Control Cohorts

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PO210 Targeted Long-Read Sequencing To Investigate Somatic Instability And Epigenetic Signatures Of The C9orf72 Hexanucleotide Repeat Expansion In Blood

Beatrix Cardus (1), Andrew G L Douglas (1,2), Martin R Turner (1), Kevin Talbot (1),

Jonathan D Rohrer (3), Arabella Bouzigues (3), Eva Cullen (3), Olaf Ansorge (1), Jakub Scaber (1), Alexander G Thompson (1)

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PO211 Genetic Architecture Of Familial ALS In The Netherlands

Bi-Nan Wang, Daphne Van Oosten, Paul Beele, Joke Van Vugt, Paul Hop, Maarten Kooyman, Wouter Koole, Project MinE ALS Sequencing Consortium, Leonard Van Den Berg, Wouter Van Rheenen, Jan Veldink

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PO212 Long-Term Survival In A Patient With SOD1 G41S ALS Treated With Tofersen: Comparison With Rapidly Progressive Familial Cases

Caterina Meoni (1,2), Francesca Bianchi (3), Cecilia Carlesi (3), Lucrezia Becattini (1,2), Francesco Ginanni (1,2), Francesco Nicoletti (1,2), Maria Adelaide Caligo (4), Antonella Fogli (4), Gabriele Siciliano (2), Michelangelo Mancuso (2)

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PO213 Hidden In Noise: Cross-Study Analysis Of ALS SnRNA-Seq Reveals Study-Specific Inconsistencies But Robust Changes In TDP43-Affected Nuclei

Charlotte H Van Dijk (1), Jingtian Zhou (2), Sam Bonsall (2), Rodrigo K Siqueira De Souza (2), Johnathan Cooper-Knock (2), Kevin P Kenna (1)

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PO214 Identity-By-Descent Analyses Reveals C9orf72 Discordance, Cryptic Relatedness, And Expanded ALS Pedigrees

Ciara O'Donoghue (1,2,3), Emrah Kacar (1), Tomas Gomes (1), Guste Venslovaite (1), Marie Ryan (2), Mark Heverin (2), Russell Mclaughlin (1), Orla Hardiman (2,3), Ross Patrick Byrne (1)

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PO215 Co-Development Of A Genetic Care Pathway For ALS: Real-World Perspectives From The North Of England.

Clementine Wood (1), Georgia Brown (2), Kirsten Chalk (2), Samantha Holden-Smith (3), Hayley Williams (3), Greg Broadhurst (4), John Ealing (3), Catherine Breen (2), Rhona Macleod (2), Amina Chaouch (3,5)

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PO216 SOD1 And C9orf72: Genes Over Family History In ALS

Daniel Borrego-Hernández, Laura Expósito-Blázquez, Claudia Carrascal-Vento, Sara Herranz-Sanz, Pilar Cordero-Vázquez, Jesús Esteban-Pérez, Alberto García-Redondo

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PO217 Exploring The Impact Of Genetic Risk On Age At Onset Of Amyotrophic Lateral Sclerosis

Dharti Vasant Kumar, Oliver Pain, Ahmad Al Khleifat, Ammar Al-Chalabi

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PO218 Machine Learning In ALS Genetics: A Narrative Review

Dominic Ng (1), Valentina Escott-Price (2), Matt Bracher-Smith (2), Guillermo Cimadevila (2), Zain Hussein (3)

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PO219 Disease-Specific Patterns Of OPTN Variants In ALS, FTD, And Glaucoma

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PO220 Integrative Cross-Trait Analysis Identifies Shared Genes Driving Cognitive Deficits In ALS-FTD Spectrum

Emrah Kacar, Tomas Gomes, Ciara O'Donoghue, Guste Venslovaite, Russell McLaughlin, Ross Byrne
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PO221 RNA-Sequencing Reveals Distinct Transcriptional States Across ALS Subtypes

Paola Ruffo (1,2), Francesco Perrone (2,3), Jessica Rosati (4,5), Benedetta Perrone (2,3), Rossella Spataro (6), Francesca De Amicis (3), Francesca Luisa Conforti (2,3)

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- P0222 A Novel Homozygous P.Val98Leu Variant In SOD1 Associated With Mild Spinal-Onset ALS**
Giulia Scacciatella (1), Alessandro Gans (1), Lorena Mosca (2), Francesca Gerardi (3), Matteo Farè (3), Valeria Sansone (3), Federica Cerri (3)
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- P0223 TBK1-Associated ALS In A Norwegian Population-Based Cohort**
Helle Høyer (1,2), Morten Horn (3), Magnus Evjensvold (4), Elin Dahl (5), Natasha Demic (6), Marianne Lund (7), Vetle Nilsen Malmberg (5), Camilla Novy (1,2), Åse Hagen Morsund (8), Cathrine Goberg Olsen (1), Grethe Kleiveland (9), Trygve Holmøy (10,2)
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8. Department of Neurology, Møre and Romsdal Hospital Trust, Molde, Norway
9. Department of Neurology, Innlandet Hospital, Lillehammer, Norway
10. Department of Neurology, Akershus University Hospital, Lørenskog, Norway
- P0224 To Describe A Case Of Amyotrophic Lateral Sclerosis (ALS) In A Patient With Down Syndrome And Discuss Its Relevance, Given The Exceptional Coexistence Of Both Conditions.**
Javier Mascias Cadavid (1), Francisco Javier Rodriguez De Rivera Garrido (1), Teresa Salas Campos (2), Rosario Urbez Mir (3), M^a Antonia Gomez Mendieta (4), Susana Chajma Izquierdo (3), Rafael Jenaro Martinez Marin (1), Yolanda Moran Benito (5)
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PO225 Cell-Free DNA Methylation Profiling By Enzymatic Methyl Sequencing Reveals The Liquid Biopsy Episignature Of Amyotrophic Lateral Sclerosis

Johana Alvarez (1), Sara Razquin (1), Mónica Macías (1), Maria Luisa Mansego (2), Idoia Blanco (1), Miren Roldan (1), Lidia Gonzalez (1), Eneko Cabezon (1), Maria Elena Erro (3,4), Inma Pagola (1), Ivonne Jericó (4,3), Maite Mendioroz (1,3)

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PO226 The Project MinE Browser: Interactive Exploration Of Large-Scale ALS Exome Variant Associations

Kees De Jong, Paul Hop, Kevin Kenna, Jan Veldink, On Behalf Of The Project Mine Als Sequencing Consortium

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PO227 Genetic Variability In Polish Patients With Amyotrophic Lateral Sclerosis: Results From A Single-Center Cohort

Krzysztof Nieporecki, Magdalena Kuzma- Kozakiewicz

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PO228 Early Cellular And Spatial Alterations In The Presymptomatic Spinal Cord Of ALS Revealed By Single-Cell And Spatial Transcriptomics

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PO229 A Novel PFN1 C.91G A (P.Val31Ile) Variant In Sporadic ALS: A Case Report

LUCREZIA Becattini (1), Francesca Bianchi (2), Carlesi Cecilia (2), Caterina Meoni (1), Francesco Ginanni (1), Francesco Nicoletti (1), Maria Adelaide Caligo (3), Antonella Fogli (3), Annalisa Lo Gerfo (3), Gabriele Siciliano (1), Michelangelo Mancuso (1)

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PO230 Insights From A Six Year Audit Of Genetic Testing In The ALS Clinic

Lucy E Farrimond (1,2), Jasmine J Thomas (2), Andrew G L Douglas (3,1), Jakub Scaber (1), Kevin Talbot (1), Alexander G Thompson (1,2), Martin R Turner (1,2)

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P0231 Expanding The Genetic Landscape Of ALS In Czechia Using Long-Read Sequencing: A Pilot Study

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P0232 Mapping Of Relatedness In Norwegian ALS Cohort

Maria Fahlström (1,2), Camilla Novy (1,2), Daphne Van Oosten (3), Ole-Bjørn Tysnes (4,5), Wouter Van Rheenen (3), Jan H Veldink (3), Peter Munch Andersen (6), Øystein Holla (1), Magnus D Vigeland (7), Trygve Holmøy (2,8), Helle Høyer (1,2)

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P0233 Evaluating HTT Repeat Length As A Potential Genetic Modifier Of Disease Susceptibility And Onset Timing In ALS Cases

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P0234 A Multiomics Approach To Characterizing The Molecular Phenotypes Of ALS In The Human Lumbar Spinal Cord And Motor Cortex

Natalie Barretto (1,2), Ben Fullerton (1,2), Chris Jackson (2), Aidan Daly (2), Obadele Casel (2), Joana Petrescu (1,2), Olena Kuksenko (1,2), Brhan Gebremedhin (2), Hemali Phatnani (1,2)

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P0235 C9orf72 Hexanucleotide Repeat Alleles Of 18 Repeats Units Or More Are Unstable And Demonstrate A Paternal Expansion Bias

Osma Rautila, Karri Kaivola, Lilja Jansson, Pentti Tienari
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P0236 Exploring The Power To Detect Pathogenic Mutations Through Haplotype Analyses In Distantly Related Patients With ALS

Paul Beele, Daphne Van Oosten, Bi-Nan Wang, Jan H. Veldink, Wouter Van Rheenen
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P0237 Large-Scale Exome Analyses Reveal Novel Rare Variant Contributions In Amyotrophic Lateral Sclerosis

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P0238 Increasing The CMT-ALS Spectrum: A Case Report And Narrative Review

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P0239 Profiling The Clinical Characteristics Of UNC13A Rs12608932 Carriers In Ireland

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PO240 Multimodal Structural Profiling Of Plasma CfDNA In ALS: Integrating Fragmentomics And Nucleosome Footprinting

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PO241 Contribution Of RNA-Binding Protein Binding Sites To ALS Heritability: A Genome-Wide Enrichment Analysis.

Susanna Höppener, Paul Hop, Ramona Zwamborn, Paul Beele, Jan Veldink, Wouter Van Rheenen University Medical Center Utrecht, Utrecht, The Netherlands

PO242 Combined Transcriptomic And Genomic Latent Variable Correction Improves The Performance Of Differential Expression Analysis In ALS Datasets

Yadusayan Appulingam, John Jammal, Aminah Ali, Oliver Pain, Alfredo Iacoangeli King's College London, London, United Kingdom

PO243 CYP2D6 Variants In Middle Eastern Amyotrophic Lateral Sclerosis: An Association Study Of Risk, Survival And Comparison With European Populations

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EPIDEMIOLOGY (included in the posters session I)

PO244 Environmental Exposures And Clinical Heterogeneity In ALS: A Geospatial Analysis Of A Longitudinal Cohort

Alejandro Caravaca Puchades (1,2,3), Pol Andrés Benito (4,5), Núria Botella (6,3), Sami Petricola (6), Sergi Sanz (6,3), Mònica Povedano Panadés (6)

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P0245 Diagnostic Delay Is Associated With Slower Functional Progression In Amyotrophic Lateral Sclerosis: Insights From A Real-World Cohort In Chile

Bastián Navarrete, María Jose Cuello

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P0246 - Epidemiological Study Of Clinical Progression And Cognitive Function In Brazilian Patients With Amyotrophic Lateral Sclerosis (ALS)

Bruna Victorasso Jardim-Perassi (1), Maria Eduarda Tortorella (1), Eduarda Massa Sartori (1),

Gabriel Tambellini Santoro (1), Giulia Tambellini Santoro (1), Rute Priscila De Almeida Gonçalves (1),

Camila Marques Nadim Amstalden (1), Silvana Gregório (1), Silvia Tortorella (1), Agnes Lumi Nishimura (1,2)

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P0247 The Effect Of Social Deprivation And Sex On ALS Survival In The Republic Of Ireland: A Time-To-Event Analysis.

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P0248 Environmental Pollutants And Amyotrophic Lateral Sclerosis In A Population-Based Registry: Investigating Disease Susceptibility, Progression And Survival

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P0249 Quantifying Survival Differences Between ALS Clinical Trial Participants And Population Cohorts: Evidence Of Prognostic Enrichment In Trial Populations

Emeka Uzochukwu, Francesca Maher, Ahmad Al Khleifat, Ben Carter, Alfredo Iacoangeli

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P0250 Gut Microbiome Composition And Function In Amyotrophic Lateral Sclerosis: A Cross-Sectional Comparison In Sweden

Emily E Joyce (1), Fredrik Boulund (1), Caroline Ingre (1), Christina Seitz (1), Ulf Kläppe (1),

Kristin Samuelsson (1), Rayomand Press (1), Rosa Luisa Potenza (2), Weimin Ye (1), Yudi Pawitan (1),

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P0251 Increasing Prevalence Of Amyotrophic Lateral Sclerosis In Austria Correlates With Reduced Mortality

Omar Keritam (1,2), Raphael Wurm (1,2), Daniel Bormann (1,2), Felix Gruber (3), Martin Krenn (1,2), Gudrun Zulehner (1,2), Jakob Rath (1,2), Fritz Zimprich (1,2), Hakan Cetin (1,2)

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P0252 Prevalence Of Amyotrophic Lateral Sclerosis In The Valencian Community, Spain: A Population-Based Cross-Sectional Study

Pablo Ros-Arlanzón (1), Juan Francisco Vázquez-Costa (2), Rosa María Vilar Ventura (3), Elena Ronda-Pérez (4), Carmen Díaz Marín (1,5)

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P0253 Diagnostic Delay In Early-Onset Amyotrophic Lateral Sclerosis: A Prospective Analysis From The First National Registry In Kazakhstan

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P0254 Investigating The Effects Of Metformin On Survival In ALS Using Real-World Data

Julia Geller (1), Alex Berger (1), Willow Butler (1), Alexander V. Sherman (1,2), Marie-Abele Bind (2,3)

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IMAGIN AND ELECTROPHYSIOLOGY AS BIOMARKERS (included in the posters session II)

PO255 - Neurophysiological Evaluation Of Edaravone And Tofersen Treatment In ALS Using Axonal Excitability And MScanFit MUNE

Abir Alaamel (1), Nur Basçi (2), Aysegül Gündüz (2), Hilmi Uysal (3)

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PO256 Aptamer-Based Detection Of TDP-43 And FUS Across Motor Control Networks Identifies Distinct Pathological Trajectories In ALS

Angus Shorthouse (1), Katie Hanna (1), Marta Vallejo (2), Fergal M. Waldron (1), Jenna M. Gregory (1,3)

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PO257 Quantifying Motor Unit Loss Prior To Functional Impairment In Muscles Affected By ALS

Boudewijn Sleutjes (1), Anna Bystrup Jacobsen (2), Hatice Tankisi (2), N. Gorkem Sirin (3),

A. Emre Oge (3), Robert D. Henderson (4), Pieter A. Van Doorn (5), Leonard H. Van Den Berg (1),

Ruben P.A. Van Eijk (1)

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PO258 In Vivo Evidence Of Subcortical MGlur5 Upregulation In Amyotrophic Lateral Sclerosis

Charlotte Vogt (1), Valerie Treyer (2), Oleksandra Hoptar (1), Zylfje Dibrani (1), Christoph Neuwirth (1),

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PO259 Clinical And Imaging Predictors Of Outcome In Amyotrophic Lateral Sclerosis: A Multimodal MRI And CT Study

Chiara Gemelli (1), Corrado Cabona (1), Mehrnaz Hamedani (2), Giulia Benvenuto (2),

Michele Trigiante (2), Carolina Barone (2), Michela Spagnuolo (3), Antonella Bodini (3),

Marco Guerra (3), Simone Cammarasana (3), Silvia Biasotti (3), Giuseppe Patanè (3),

Ludovica Badino (2), Anna Cristina Meschiari (1), Alice Cappello (1), Luca Roccatagliata (1,4),

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PO260 Dissociable Mismatch Negativity Signatures Of ALS And Neuropsychiatric Endophenotype

Ciara O'Donoghue (1,2), Narin Suleyman (1,2), Eva Woods (3), Gabriel Palma (3), Stefan Dukic (4), Aoife Troy (1), Leah Nash (1), Serena Plaitano (1), Marjorie Metzger (1), Michael Broderick (1), Eileen Rosie Giglia (1), Teresa Buxo (1), Mark Heverin (1), Bahman Nasserroleslami (1), Orla Hardiman (1,2), Roisin McMackin (1,3)

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PO261 Investigating The Clinical And Neurophysiological Architecture Of Amyotrophic Lateral Sclerosis: Insights And Implications From Exploratory Correlational Patterns And Phenotypic Clustering

Corrado Cabona (1), Cristina Schenone (2), Nicola Bragazzi (3), Flavio Villani (1), Lucio Marinelli (2,1), Chiara Gemelli (3), Andrea Santamato (4), Stefania Spina (4), Paola Mandich (2,3), Laura Mori (2,3), Angelo Schenone (5,6), Carlo Trompetto (2,3)

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PO262 MRI And Transcranial Magnetic Stimulation Biomarkers Of Upper Motor Neuron Involvement In ALS: Age-Related Differences In Corticospinal Tract Dysfunction

Lidia Giramé-Rizzo (1,2,3), Daniel Sánchez-Tejerina (1,2,3), Beatriz Martínez (4), Cinta Soler (2), Viviana Jaumandreu (2), Arnau Llauredó (1,2,3), Juan Luis Restrepo (1,2,3), Jose Alemañ (5,2,3), Maria Salvadó (1,2,3), Elena Lainez (6), Jose Luis Seoane (6), Margarida Gratacòs-Viñola (6), Jose Manuel Vidal-Taboada (3), Cristina Auger (4), Núria Ragué (6), Raúl Juntas (1,2,3)

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P0263 ALS Detection By Structural MRI: An Exploratory Pipeline

Danilo Tornabene (1,2), Giulia Guicciardi (3), Chiara Pullega (1), Chiara Bonizzoni (1), Luca Diamanti (1), Anna Pichiecchio (1,2)

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P0264 DTI ALPS Impairment In GRN-Mutated Frontotemporal Dementia: A Distinct Pathophysiological Signature

Edoardo Gioele Spinelli (1,2), Ilaria Bottale (1,2), Alma Ghirelli (1,2), Silvia Basaia (1), Teresa Battani (2), Veronica Castelnovo (1), Elisa Canu (1), Giordano Cecchetti (1), Francesca Caso (1), Giuseppe Magnani (1), Teuta Domi (1), Paola Caroppo (3), Marcella Catania (3), Federico Verde (4), Nicola Ticozzi (4), Vincenzo Silani (4), Massimo Filippi (1,2), Federica Agosta (1,2)

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P0265 To Go Or Not To Go: Reproducibility Of N2 Amplitude Alterations In Amyotrophic Lateral Sclerosis

Eva Woods (1), Gabriel Rodrigues Palma (1), Meher Sabharwal (1), Sanya Dalal (1), Narin Suleyman (2,3), Serena Plaitano (3), Marjorie Metzger (3), Leah Nash (3), Eileen Rose Giglia (3), Niall Pender (3,4), Stefan Dukic (5), Orla Hardiman (2,3), Roisin McMackin (1,3)

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P0266 Spinal Cord Atrophy Across Clinical Phenotypes And Stages In Amyotrophic Lateral Sclerosis: Results From A Large Multicenter Magnetic Resonance Imaging Cohort

Giorgia Querin (1,2), Muriel Lefort (2), Gaelle Bruneteau (1), François Salachas (1), Timothée Lenglet (1), Maria Del Mar Amador (1), Adèle Hesters (1), Véronique Marchand-Pauvert (3), Anne-Sophie Rolland (4), David Devos (4), Mohamed Mounir El Mendili (2), Pierre-François Pradat (2,1)

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PO267 Functional Classification Of Thalamic Nuclei In ALS: Contribution Of Limbic And Associative Nuclei To Behavioural Symptoms And Disease Progression

Giulia Scacciatella (1), Alessio Maranzano (2), Alessandro Cocuzza (3), Valerio Patisso (2), Simone Pierro (2), Massimiliano Passaretti (4), Silvia Torre (2), Edoardo Aiello (2), Barbara Poletti (2), Alberto Doretto (2), Claudia Morelli (2), Joana Pereira (4), Vincenzo Silani (2), Federico Verde (2)

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PO268 Towards Comprehensive Biomarkers In ALS: A High-Density EEG Study With Simultaneous EMG Acquisition

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PO269 Quantifying Neural Excitation-Inhibition Balance In ALS Using Resting-State EEG

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PO270 Qualification Program For Harmonised M-Scan Implementation: A Multi-Centre Clinical Trial Experience

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PO271 Quantification Of Amyotrophic Lateral Sclerosis Disease Accumulation With T1-Weighted High-Resolution Magnetic Resonance Imaging: Validation In An Independent Cohort

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P0272 Quantitative Muscle Ultrasound In Amyotrophic Lateral Sclerosis: Echotexture Parameters As Clinical Correlates Of Disease Activity

Jacinto J. Martínez-Payá (1), Edgar Aljaro-Arevalo (2), María Elena Del-Baño-Aledo (1), José Ríos Díaz (3,4), Juan Francisco Vázquez-Costa (5,6,7), José Ignacio Tembl-Ferrairo (8), Pedro Chana-Valero (3,4)

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P0273 Combined B-Mode And Strain Sonoelastography Of Cervical Nerve Roots And Brachial Plexus As Image Biomarkers In Amyotrophic Lateral Sclerosis

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P0274 Echovariation In Biceps Brachii Predicts Weight Loss Rate In ALS Independently Of Disease Duration

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PO275 The Effect Of An UNC13A Polymorphism On Neuroimaging In ALS

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PO276 Cortical And Subcortical Regional Iron Accumulation In ALS

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PO277 Replication Of Beta EEG Oscillations Related To The Sustained Attention To Response Task In Irish And Dutch Cohorts

Marit Boxum (1), Gabriel Rodrigues Palma (2), Robin Jansen (1), Iris A. Bastmeijer (1), Sanya Dalal (2), Eva Woods (2), Narin Suleyman (2,3), Eileen Rose Giglia (4), Aoife Troy (4), Abby Field (2), Serena Plaitano (4), Marjorie Metzger (4), Niall Pender (4,5), Orla Hardiman (3,4), Leonard H. Van Den Berg (1), Roisin McMackin (2,4), Stefan Dukic (1)
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PO278 Implementation Of Neurophysiological Techniques In ALS Clinical Trials: A Systematic Review And Practical Guideline For Future Clinical Trials.

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PO279 Retinal Imaging In ALS: A Prospective Optical Coherence Tomography Study

Miracle Ozzoude, Isaac Chau, Ethan Stoker, Charlene Hamid, Christine Weaver, Judith Newton, Baljean Dhillon, Suvankar Pal, Tom Macgillivray
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PO280 A Multi-Level Framework For Technical Drift Detection And Harmonization In A Single-Site ALS MRI Cohort

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PO281 Volumetric Deep Learning Embeddings As Imaging Biomarkers For Functional Decline And Progression In ALS

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PO282 Frontotemporal Alpha Power Is Reduced In People With ALS But Alpha Modulation Remains Intact

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PO283 A High-Affinity Fluorescent Peptide Nucleic Acid Aptamer Enables Robust Detection Of Pathological TDP-43 Across Cellular And Tissue Models

Orjona Stella Taso (1), Fergal M Waldron (2), Holly Spence (2), Doaa Taha (1), Giulia Tyzack (1), Hannah Franklin (1), Rebecca Gabrielle (1), Selina Wray (1), Rickie Patani (1), Elsa Zacco (3), Gian Gaetano Tartaglia (3), Christine Vande Velde (4), Alicia Dubinski (4), Sergio Dall'angelo (2), Matthew J Keuss (1), Jenna M. Gregory (2)

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PO284 Associations Between CSF Markers Of Neuronal Injury And Neuroinflammation And Cerebral Glucose Metabolism In People With ALS.

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PO285 Longitudinal Trajectories Of EEG Motor Cortex Oscillations In ALS

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PO286 Brain Metabolic Connectivity Across King's Stages In Amyotrophic Lateral Sclerosis

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PO287 Transcranial Magnetic Stimulation Detects Subclinical Corticobulbar Degeneration And Predicts Bulbar Outcomes In Amyotrophic Lateral Sclerosis

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PO288 Compound Muscle Action Potential Decrement Across Different Muscles In Patients With ALS - A Systematic Review And Meta-Analysis

Veerle Van Harmelen, Isabelle Busman, Stephan Goedee, Leonard Van Den Berg, Boudewijn Sleutjes UMC Utrecht, Utrecht, The Netherlands

PO289 Brain Mobile Macromolecule Maps In ALS And Asymptomatic C9orf72 Mutation Carriers Assessed With MR Spectroscopy At 7T.

Wytse Van Hoek, Abram Nitert, Kevin Van Veenhuijzen, Harold Tan, Carrie Wismans, Dennis Klomp, Jannie Wijnen, Leonard Van Den Berg, Henk-Jan Westeneng

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IN VITRO EXPERIMENTAL MODELS / CELLULAR MODELS (included in the posters session I)

PO290 Early Vulnerability And Altered Network Responsiveness In C9orf72 ALS Spinal Cord Spheroids Generated From A High-Purity Motor Neuron Differentiation Strategy

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PO291 Bioinformatic Quality Control Of CRISPR-Cas9 Modified IPSC Lines In The UK MND Research Institute

Aleksandra Mech (1), Sandra Diaz Clavero (2), Dulcie Keeley (1), Giampietro Schiavo (2), Jemeen Sreedharan (1)

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PO292 Chemical Induction Of Aging In IPSC-Motor Nerve Organoids To Model Amyotrophic Lateral Sclerosis

Valeria Casiraghi (1), Veronica Casarotto (2), Serena santangelo (2), Alireza Bourjarian (1), Enrico Pellegrini (1), Sabrina Longobardi (2), Sabrina Invernizzi (1), Serena Leoni (2), Vincenzo Silani (2,3), Patrizia Bossolasco (2), Antonia Ratti (2,1)

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PO293 Effect Of Noopept On Mutant Superoxide Dismutase 1 Cellular Model Of Amyotrophic Lateral Sclerosis

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PO294 Patient-Derived Cortical Brain Organoids Model Key Pathological Features Of ALS

Ana Belén García-Delgado (1), María Herrera-Sánchez (1), Sara Bega (1), Rafael Campos-Cuerva (2), Silvia Hucha (3,4), Josefa Álvarez-Fuentes (1), Lucía Martín-Banderas (1), Carmen Paradas (3,4), Rosario Sánchez-Pernaute (5,6), Beatriz Fernández-Muñoz (1)

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- PO295 Axonal Transport Defects And Extracellular Vesicle Alterations In TARDBP A382T IPSC-Derived Motor Neurons**
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- PO296 Investigating Disease Related Phenotypes Of Novel ALS-Associated Genetic Variants In IPSC-Derived Motor Neurons**
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- PO297 Oral Treatment With Fasudil Diminishes The Capacity Of ALS Patient-Derived Exosomes To Induce TDP-43 Neuropathology And ALS-Relevant Proteomics Changes In Vitro**
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- PO298 Generation Of Human Cell Models Carrying TARDBP And SOD1 Mutations For Precision Gene Editing In ALS.**
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- PO299 Neuroprotective Potential Of Adipose Mesenchymal Stem Cell-Derived Extracellular Vesicles On Damaged Motoneurons: Impact Of Cell Source Activation State**
Davide Sganzerla, Mauro Caprioli, Ilaria Scambi, Arianna D'Alberto, Sofia De Marchi, Elisa Pelullo, Ermanna Turano, Raffaella Mariotti
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- PO300 Characterising A Novel Amyotrophic Lateral Sclerosis Proteinopathy**
Emma Bray, Rachel Hodgson, Ya-Hui Lin, David Burrows, J Robin Highley, Tatyana Shelkownikova, Guillaume M Hautbergue
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- P0301 Characterization Of Induced Pluripotent Stem Cell (iPSC)-Derived Microglia From Different ALS Genetic Backgrounds**
Enrico Pellegrini (1), Chiara Lattuada (2), Sabrina Invernizzi (1), Veronica Casarotto (3), Serena Santangelo (3), Sabrina Longobardi (3), Serena Leoni (3), Vincenzo Silani (3), Antonia Ratti (1), Patrizia Bossolasco (3)
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- P0302 Epigenetic Characterization Of DNA Methylation In 2D Cultures And Motor Neuron Organoids From Sporadic ALS iPSCs**
Eveljn Scarian (1), Matteo Bordoni (1), Camilla Viola (1,2), Arianna Franchino (2), Luca Diamanti (1), Orietta Pansarasa (1)
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2. University of Pavia, Pavia, Italy
- P0303 Skeletal Muscle Cells Expressing The HSOD1G93A Mutation Show Mitochondrial Alterations And Impaired Mitochondrial Quality Control**
Gabriel Rada (1), Fernando Bartolomé (2), Paula Aparicio (1), Leticia Moreno García (1), Elisa Gascón (1), Nora Molina (1), Luis Folch Cirujeda (1), Mario Díaz (2), Carolina Alquézar (2), Ana Cristina Calvo (1), Janne Markus Toivonen (1), Antonio Musarò (3), Laura Moreno Martínez (1), Rosario Osta (1)
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- P0304 Machine Learning-Based Morphometric Profiling Of Patient-Derived Motor Neurons As A Scalable Platform For Amyotrophic Lateral Sclerosis Drug Discovery**
Gaspard Oudinot, Elena Pasho, Mark Zaidi, Manon Marchais, Sorana Ciura, Edor Kabashi
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- P0305 Modelling The Human Neuromuscular Junction In Vitro**
Irene Mei (1), Lara Leal Hernández (1), Silvia Gómez (1), Christoph Schweingruber (1), Alexandra Barte (1), Gill Pollmeier (2), Jik Nijssen (2), Eva Hedlund (1)
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- P0306 L-Type Calcium Channel-Dependent Signalling And Therapeutic Modulation In Induced Pluripotent Stem Cell-Derived Motor Neurons Modelling Amyotrophic Lateral Sclerosis/ Frontotemporal Dementia**
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PO307 ALS-Causative KIF5A Mutations Impair Translation And Disrupt Metabolic And Proteostatic Pathways In HiPSCs Derived Motor Neurons

Isabel Loss (1,2,3), Rüstem Yilmaz (2), Babak Loghmani (1,2), Francesca Tuorto (2), Tessa Fabian (2), Elena Cairo (2), Philipp Koch (3), Jochen Weishaupt (1,2), Rosanna Parlato (2)

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PO308 Comparative Analysis Of Different TBK1-ALS Mutations In Patient-Derived Motor Neurons Reveals Alterations In Autophagy-Lysosome Pathways And Ciliogenesis

Jahnvi Srinidhi (1,2), Babak Loghmani (3), Isabel Loss (1,2), Rüstem Yilmaz (1), Philipp Koch (2), Julian Conrad (1), Rosanna Parlato (1), Jochen Weishaupt (1,3)

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PO309 Human Myoblasts Immortalization For The Study Of ALS

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PO310 Distinct Cellular Stressors Differentially Modulate TDP-43 Localization And Stress Granule Dynamics

José Miguel Miguel Brito Armas (1), Beatriz Rodríguez Villa (2), Davinia Domínguez González (2), Ramón Alejo Bustillo Alfaro (2), Lucas Taoro González (3), Alessandro Marrero Gagliardi (4), Arianna Vastola-Mascolo (2), Abraham Acevedo Arozena (5)

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PO311 Investigating The Compartment-Specific Expression And Function Of Small Non-Coding RNAs In FUS-ALS iPSC-Derived Motor Neurons

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- P0312 Pharmacological Impact Of Anti-Inflammatory Compounds On IPSC Derived Motor Neurons In The Context Of Amyotrophic Lateral Sclerosis (ALS)**
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- P0313 HnRNP Q/SYNCRIP Contributes To Amyotrophic Lateral Sclerosis By Regulating Expression Of FXR1 And FXR2**
Lorena Decker (1), Simone Feldengut (2), Sonja Menge (1), Antonia Mayer (1,3), Maike Haas (1), Karin M. Danzer (1,4), Johannes Dorst (1), Deniz Yilmazer-Hanke (2), Axel Freischmidt (1)
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- P0314 Multi-Omics Characterization Of C9orf72-Associated ALS Pathology In Patient-Derived Spinal Cord Organoids Reveals Convergent Molecular Signatures And Therapeutic Targets**
Lorenzo Brambilla (1), Giorgia Galvani (1), Mafalda Rizzuti (1), Noemi Galli (1), Michela Ripolone (1), Laura Napoli (1), Valentina Melzi (1), Giulia Magni (1), Federica Rizzo (1), Jeroen Pasterkamp (2), Linda Ottoboni (3), Stefania Corti (3)
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- P0315 TDP-43 Proteinopathy Drives Reversible Sarcomeric Collapse In ALS Patient-Derived Myotubes**
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- P0316 Migration Mechanisms Of Extracellular Vesicles Derived From Adipose Mesenchymal Stem Cells Through An In Vitro Epithelium And Their Neuroprotective Effect On Damaged Motoneurons**
Mauro Caprioli, Davide Sganzerla, Ilaria Scambi, Arianna D'Alberto, Sofia De Marchi, Elisa Pelullo, Ermanna Turano, Raffaella Mariotti
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P0317 Development Of A Human Cell-Based Model From Olfactory Neuroepithelium To Study TDP-43 In Amyotrophic Lateral Sclerosis

Ermanna Turano, Matilde Bongiani, Francesco Silvestri, Erika Bronzato, Valerio Arietti, Luca Sacchetto, Gianluigi Zanusso, Raffaella Mariotti, Mauro Caprioli
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P0318 Axonal Accumulation Of TDP-43 In iPSC-Derived Motor Neurons From Sporadic ALS Patients

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P0319 Spinal Cord Organoids From iPSC Lines Carrying C9ORF72 Repeat Expansions

Nadia Jamshaid (1,2), Alberto Meana (1), Ana Belen García Delgado (3), Beatriz Fernandez Muñoz (3), Tomas Aragon (4), Montserrat Arrasate (4,5), Rosario Sanchez Pernaute (4,5)
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P0320 Ciclopirox Olamine And The SMG Inhibitor 11j Drive TDP-43 Loss Of Function: A Drug-Inducible Cellular Model

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P0321 Generation Of A Universal Human Cellular Platform For Drug Testing In ALS

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P0322 Proteasomal-Dependent CHK1 Degradation Leads To DNA Damage Accumulation In ALS Cellular Model Systems

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PO323 CRISPR Kinome Screens In Human Motor Neurons Reveal Druggable Modulators Of TDP-43 Pathology

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PO324 Overexpression Of Macrophage Migration Inhibitory Factor (MIF) In Motor Neurons Differentiated From Mutant SOD1-ALS Patient-Derived iPSCs Increases Neuronal Activity

Thomas Gschwendtberger, Susanne Petri

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PO325 Analysis Of Extracellular Vesicle Cargo Dynamics In ALS-Derived Motor Neurons During Neuronal Differentiation

Youjung Han, Sandra De La Fuente Ruiz, Marco Terenzio

Okinawa Institute of Science and Technology, Okinawa, Japan

NEW DRUGS DEVELOPMENT (included in the posters session II)

PO326 Five-Year Survival Of 42% In ALS Patients Treated With Masitinib: Long-Term Outcomes From AB10015 Trial

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PO327 Tau Tubulin Kinase 1 Inhibition Does Not Affect Ciliogenesis And Restores TDP-43 Homeostasis In ALS And FTD-TDP Models

Cecilia Sánchez-Santos (1,2), Vanesa Nozal (1), Francesc R. García-Gonzalo (3,4,5), Lucia Baselga (1,2),

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P0328 Structure-Guided Dual-Action Hybrid Therapeutics Targeting SOD1 In ALS

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P0329 Higher-Dose Riluzole Extends Survival Without Increasing Adverse Events In Motor Neuron Disease

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P0330 Quinolinones Are A Novel Class Of Protective Compounds In Cellular, Zebrafish And Mouse Models Of ALS

Julie Atkin

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P0331 The Combination Of RT1999 And RT1972 From Preclinical To Clinical Development

Kim A. Staats

Raya Therapeutic, Inc., Montreal, Canada

P0332 Development Of LTX-002, A Novel ASO, For The Treatment Of ALS

Laura D Heckman, Giulio Tomassy, Herve Rhinn, Anumeha Shah, Asa Abeliovich

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P0333 Patient-Reported Preferences And Longitudinal Adherence To Different Riluzole Formulations In ALS: A Real-World Survey

Lucia Aruta (1), Myriam Spisto (2), Valentina Virginia Iuzzolino (1), Gianmaria Senerchia (1), Fabiana Panico (1), Valeria Scodes (1), Rosanna Balzano (1), Raffaele Dubbioso (1)

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P0334 A Novel Circular RNA-Based Platform For Dual Targeting C9orf72 Sense And Antisense Transcripts In ALS

Mònica B Mendoza, Florencia E Alonso, Marta Casas-Vilaseca, Ivan Dotu, Marc Talló-Parra

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PO335 An Update From GOALS, A Phase 1b/2 Trial Of ALN-SOD, An Intrathecally-Administered Small Interfering RNA Targeting SOD1, In Symptomatic SOD1-ALS

Philip Van Damme (1), Angela Genge (2), Lorne Zinman (3), Peter Dobrowolski (4), Yuishin Izumi (5), Seung Hyun Kim (6), Jung-Joon Sung (7), Agessandro Abrahao (3), Dominic Rowe (8), Yi-Chung Lee (9), Oren Levy (10), Jeffery J. Anderson (10), Yanping Chen (10), Poulabi Banerjee (10), Maria Rosario (10), Alexandre Sostelly (11), Gary Wilson (10), Olivier Harari (10)

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PO336 Targeting The VAPB-PTPIP51 Endoplasmic Reticulum (ER)-Mitochondria Tethering Proteins As A Novel Therapy For Amyotrophic Lateral Sclerosis And Frontotemporal Dementia

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PO337 ORY-4001, A Potent And Selective Inhibitor Of HDAC6, Improves ALS-Related Pathology In Different Models Of ALS.

Raquel Larramona Arcas, Sarai Pacheco, Jordi Senserrich Velasco, Cristina Mascaró, Jordi Xaus

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IN VIVO EXPERIMENTAL MODELS / ANIMAL MODELS (included in the posters session I)

PO338 Investigating Diet-microbiota Interactions In Humanized ALS Mice

Alessio Lauricella (1), Emily E Joyce (2), Maria Puopolo (1), Monica Armida (1), Silvia Bullitta (1), Alessia Butera (1), Paola Piscopo (1), Christina Seitz (2), Maria Elena Pisanu (1), Rosa Luisa Potenza (1), Fang Fang (2)

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PO339 Synergistic Interaction Between C9orf72 Haploinsufficiency And Dipeptide Repeat Proteins In A Zebrafish Model Of ALS

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P0340 C-Terminal Tardbp Mutations Produce Distinct Phenotypic And Molecular Effects In Knock-In Mice

Beatriz Rodríguez-Villa (1), José Miguel Brito Armas (2), Alla Mikheenko (3), Matteo Zanovello (3), Ramón Alejo Muñoz De Bustillo Alfaro (1), Davinia Domínguez-González (1),

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P0341 A New Tunable And Conditional Mouse Model Of ALS

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P0342 Sex-Specific Hypothalamic Axis Disruption In The RNLS8 Mouse Model Of Amyotrophic Lateral Sclerosis

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P0343 Uncovering the role of TDP-43 autoregulation in the pathogenesis of ALS using a novel conditional mouse model

Davinia Domínguez-González, Felipe Fumagallo Reading, Arianna Vastola-Mascolo,

Ramón Alejo Muñoz De Bustillo-Alfaro, Beatriz Rodríguez-Villa, Lucas Taoro-González,

Jose Miguel Brito, Abraham Acevedo-Arozena

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P0344 In Vivo Evaluation Of Intrathecal AAV-HSPA1A Gene Delivery In A TDP-43 ALS Mouse Model

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PO345 Disruption Of The Motor Neuron Translatome Is Disease-Specific In ALS And SMA But Converges On MCM5

Hannah L. Smith (1), Dinja Van Der Hoorn (2), Fabio Lauria (3), Helena Chaytow (1), Yu-Ting Huang (1), Kiterie M. E. Faller (1), Marta Machioretto (3), Rachel A. Kline (1), Bernát Nógrádi (4), Ewout J. N. Groen (5), Gabriella Viero (3), Thomas H. Gillingwater (1)

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PO346 TDP-43 Preserves Satellite Cell Viability And Myogenic Potential In Skeletal Muscle

Oihane Pikatza-Menoio, Haser Sutcu, Ainhoa Vidal-Gil, María Rodríguez-Hidalgo, Amaia Elicegui-Aguirre, Mariya Ievchuk, Ignacio Azcue-Juaristi, Sonia Alonso-Martín
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PO347 Sex Differences In Blood Peripheral Immune Signatures In ALS

Isabel Rea (1), Evandro Beraldi (1), Sukyoung Lee (1), Yulan Jiang (1), Esther Álvarez-Sánchez (2), Oriol Dols-Icardo (2), Jeff Biernaskie (1), Keith Sharkey (1), Minh Dang Nguyen (1)

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PO348 Optineurin Insufficiency Ameliorates Cognitive Defects And Lipopolysaccharide-Mediated Mortality In The TDP-43G348C Mouse Model

Josip Peradinovic, Ivona Cargonja, Andrea Markovinovic, Ivana Munitic
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PO349 Early Retinal Involvement In Amyotrophic Lateral Sclerosis: Insights From SOD1G93A Mice

Lorenza Di Marsico (1,2), Eleonora Daghini (2), Rosario Amato (2), Maurizio Cammalleri (2), Pete A Williams (3), Massimo Dal Monte (2), Sebastian A Lewandowski (1)

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PO350 In Vivo Muscle Electrophysiology As A Tool To Assess Pathology And Therapeutic Efficacy In ALS Mouse Models

Mhoriam Ahmed, Linda Greensmith

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P0351 Impact Of Magnetic Field Stimulation On Disease Progression In The SOD1G93A Mouse Model Of Amyotrophic Lateral Sclerosis (ALS)

Nadine Thau-Habermann (1), Thomas Gschwendtberger (1), Lennard Köster (1), Tina Grüning (2), Arun Pal (2,3), Richard H W Funk (3,4), Thomas Herrmannsdörfer (2), Susanne Petri (1)

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P0352 FUS Orchestrates Conserved Metabolic Rewiring Of The PPAR–carnitine Axis In ALS, Revealing Clinically Relevant Therapeutic Targets

Xhuljana Mingaj (1), Nour Halabi (1), Manon Marchais (1), Elena Pasho (1), Anca Marian (1), Luc Dupuis (2), Sorana Ciura (1), Edor Kabashi (1)

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P0353 TDP43 Proteinopathy In Specific Spinal Neuron Subtypes To Elucidate ALS Pathophysiology Beyond Motor Neurons

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P0354 ALS-Associated SOD1G93A Mutations Models Mirror Aging-Related Transcriptional Changes Of Sarcopenia-Related Genes In Skeletal Muscle

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P0355 MyoRep: A Novel Reporter System To Detect Early Muscle Atrophy In Vitro And In Vivo

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PO356 Novel Targets Of ALS Degeneration: Neuromuscular Junctions And Kranocytes

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PO357 Neurofilament Light Chain And Troponin T In ALS Mouse Models: Clinically Relevant Biomarkers For Preclinical Drug Development

Valentina Bonetto, Laura Pasetto, Laura Camporeale, Monica Favagrossa, Alessia Ghioni,

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PO358 MIF As A Neuroprotective Modulator In Sporadic ALS: Insights From A CSF-Transmission Mouse Model

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TECHNOLOGY, INNOVATION AND BIOENGINEERING (included in the posters session II)

PO359 Treatment Continuity With Orodispersible Film Riluzole In Patients With Amyotrophic Lateral Sclerosis Undergoing PEG Placement: A Preliminary Clinical Experience

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PO360 An Explainable Knowledge Graph Framework For Drug Repurposing In Amyotrophic Lateral Sclerosis

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PO361 Eye-Tracking In Motor Neuron Diseases: A Systematic Review Of Clinical Applications Across Adult And Pediatric Populations

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P0362 Impact Of Built-In Ventilator Software Monitoring On Survival In ALS Patients Receiving Home Mechanical Ventilation

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P0363 Temporal Knowledge Graph Embedding For ALS Progression Prediction

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P0364 CRISPR-Targeted Silencing Of Mutant SOD1 Allele As A Treatment For Amyotrophic Lateral Sclerosis

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P0365 Exoskeleton-Assisted Gait Training In Amyotrophic Lateral Sclerosis: Safety, Efficacy, And Patients' Lived Experience.

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P0366 Consumer Smartwatch Step Counts Detect Disease Progression In ALS

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P0367 A Single ALS Mutation Destabilizes The Metal And Catalytic Architecture Of SOD1

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**P0368 Raman Spectroscopy For ALS Diagnosis And Disease Monitoring:
A Systematic Review And Meta-Analysis**

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P0369 How Might Generative AI Help A Scientist Newly Diagnosed With ALS/MND?

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P0370 Placement Shapes Measurement: Characterising Wrist And Hip Actigraphy In ALS

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P0371 Clinical Validation Of Wearable Sensor-Derived Digital Gait Metrics For Monitoring Disease Progression In Amyotrophic Lateral Sclerosis

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P0372 Digital Measures Of Real-World Gait In ALS Using Wearable Sensors

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P0373 Transcranial Pulse Stimulation (TPS) In Amyotrophic Lateral Sclerosis: Preliminary Findings On Safety And Cortical Excitability

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P0374 Identify Determinants Of TDP-43 Pathology Using Synthetic Promoter Screen

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P0375 SYN-MND: Privacy-Preserving Synthetic Motor Neuron Disease Patient Data Generation Using Parameter-Efficient Language Models

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PHENOTYPING / DISEASE STRATIFICATION (included in the posters session I)

P0376 A Multi-Linear Model For Predicting ALSFRS-R Score Progression Using Heterogeneous Longitudinal Data From Clinical Studies

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P0377 Divergence In FUS-ALS: Neurocognition, Glucose Metabolism And Mutation Variant Distinguish Severe Juvenile-Onset From Adult-Onset Cases

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P0378 The ALS-OPM Classification Identifies Distinct Trajectories Of Proximal Amyotrophic Arm-Onset Phenotype

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P0379 Milestone-Based Disease Progression In Tofersen-Treated SOD1-ALS: A Longitudinal Single-Centre Study

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P0380 Performance Of The ENCALs Risk Algorithm In Spanish ALS Patients: High Specificity For Extreme Phenotypes But Limited Intermediate Discrimination

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P0381 Higher Muscle Quality Is Associated With Slower Functional Deterioration In Amyotrophic Lateral Sclerosis

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P0382 Clinicopathological Correlation Of Motor Neuron Disease: A 10-Year Retrospective Case Series

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P0383 Sexual Dimorphism In Amyotrophic Lateral Sclerosis Phenotypes From The Canadian Neuromuscular Disease Registry

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P0384 Metabolic Signatures Of Ferritin And TDP-43 Co-Pathology Provide A Mechanistic Basis For Stratified Therapeutic Approaches In ALS

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P0385 Plasma Profiling For Protein-Based Patient Stratification In ALS

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P0386 Deep Phenotyping And Machine Learning-Based Clustering Reveal Metabotypes Impacting Progression And Clinical Severity Of Amyotrophic Lateral Sclerosis And Frontotemporal Dementia

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P0387 ALSFRS-R Subscore Progression Is Phenotype Specific And Stable Through Disease Accumulation In ALS Patients

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P0388 Onset Site-Specific Patterns Of The ALSFRS-R Subscore Progression Across Disease Phases And Aggressiveness Types.

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P0389 Prognostic Phenotyping In ALS: Real-World Validation Of The Revised OPM Classification

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P0390 Clinical Applicability Of The OPM Classification In ALS: A Retrospective Cohort Study

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P0391 Real-World Investigation Of The ALS-FTD Spectrum Using An Electronic Patient Record Pipeline

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P0392 Progression Rate As A Continuous Prognostic Determinant In ALS: Clinical Profile And Dose-Dependent Survival Gradient In A Real-World Cohort

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P0393 - Clinical Course Of FUS-ALS: A Retrospective Analysis Of Clinical And Genetic Modifiers

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P0394 Correlation Between Subjective Respiratory Symptoms And Objective Respiratory Parameters In Patients With Amyotrophic Lateral Sclerosis: Experience From A Chilean Center.

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P0395 APOEε4 Homozygosity Accelerates The Onset And Progression Of ALS Neurodegeneration

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PO396 ALS Phenotypes Of Onset, Propagation, And Motor Neuron Dysfunction – The ALS-OPM Classification Demonstrates Distinct Profiles Of Disease Progression And Neurofilament Light Chain Elevation

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PRE-CLINICAL THERAPEUTIC STRATEGIES (included in the posters session I)

PO397 Modulating Microglial Dynamics Through CSF1R Inhibition Impacts Cognitive Performance In A FTD- TDP43 Mouse Model

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PO398 The Myokine Musclin Exerts Beneficial Effects In A Mouse Model Of Amyotrophic Lateral Sclerosis

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PO399 PIKfyve Inhibitors Regulate Lipid Metabolism And Mitochondrial Dysfunction In Lymphoblastoid Cellular Lines Of ALS, Preserving Spinal Cord Motorneurons In SOD1 Animal Model

Virginia Garcia-Calvo (1,2), Elena Caballero (1,2), Loreto Martinez-Gonzalez (1,2), Hector Foronda (2,3), Patricia Gomez-Suaga (2,3), Eva De Lago (2,4), Estela Area (1,5), Ana Martinez (1,2), Carmen Gil (1,2)

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2. CIBERNED, Madrid, Spain

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PO400 Stress-Response Dysregulation Drives Bulbar-Specific Vulnerability In ALS Motor Neurons: Biological Rationale For A Precision Therapeutic Strategy

Eleonora Giagnorio (1), Samanta Mazzetti (2), Marco Cattaneo (3,4), Claudia Malacarne (1), Giorgia Farinazzo (1,5), Maria Vizziello (3), Daniele Cartelli (3,6), Nilo Riva (3), Eleonora Dalla Bella (3), Ludo Van Den Bosch (7,8), Emmanuelle Abgueguen (9), Pierre Miniou (9), Giuseppe Lauria Pinter (3,10), Stefania Marcuzzo (1,11)

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PO401 Targeting MicroRNA-129 As A Therapeutic Strategy And Biomarker In Amyotrophic Lateral Sclerosis

Francesca Sironi (1), Alberto Romano (2), Ottoboni Linda (1), Mafalda Rizzuti (2), Valentina Melzi (2), Delia Gagliardi (2), Claudia Alberti (1,2), Giulia Scacciatella (1,2), Pierluigi Di Vinci (1), Federico Verde (3), Antonia Ratti (3,1), Nicola Ticozzi (3), Vincenzo Silani (3), Giacomo Comi (1,2), Stefania Corti (1,2)

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PO402 SRSF1 Gene Inhibition Therapy For The Treatment Of C9orf72-Linked ALS/FTD

Kamallia Mohd Imran (1), Chloé E Moutin (1), David Burrows (1), Sophie E Badger (1), Amy F Keerie (1), Ya-Hui Lin (1), Adrian Higginbottom (1), Aurore Besse (2), Jonathan Foley (2), Pamela J Shaw (1,2), Mimoun Azzouz (1,2), Guillaume M Hautbergue (1,2)

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2. Crucible Therapeutics, Sheffield, United Kingdom

PO403 Antisense Lncrnas At The Tbk1 Locus Regulate Tbk1 Expression In Als

Hannah Kinsella (1), Maria Demestre (1), Maria Lucana Meneses (1), Irene Suárez Rojas (1), Bernat Bertran-Recasens (1,2), Sergio Vidal Notari (1,2), Pablo Villoslada (1), Miguel Angel Rubio Pérez (1,2)

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PO404 The Repurposed Drug Bexarotene Rescues ALS-Relevant Phenotypes In The Severe Thy1-TDP43 Mouse Model

Helena Chaytow (1), Rachel A. Kline (1,2), Thomas M. Wishart (2,3), Thomas H. Gillingwater (1)

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2. Roslin Institute, Royal (Dick) School of Veterinary Studies, Edinburgh, United Kingdom
3. Centre for Systems Health and Integrated Metabolic Research, Nottingham, United Kingdom

PO405 Anti-TDP-43 ScFv Therapy Achieves CNS Target Engagement And Reshapes Inflammatory And Metabolic Signatures In ALS

Helene Blasco

ibrain, Tours, France

PO406 Impact Of Intrathecal Administration Of INS1202 AAV9-SOD1-ShRNA Gene Therapy On Hallmarks Of Neurodegeneration In A Murine Disease Model Of ALS And A Patient-Derived In Vitro Model

Laura Ferraiuolo (1), Gretchen Thomsen (1), Erin Hurley (1), Hana Julazadeh (1), Jannigje Kok (1), Cleide Dos Santos Souza (1), Ashley Fox (2), Ryan Weiss (1), Haydee Gutierrez (1), Melissa Mcaloni-Downes (3), Robert Cano (1), Binh Chu (1), Angélique Braen (4), Junguo Zhou (4), W. David Arnold (5), Stephen J. Kolb (2), Allan Kaspar (1), Brian Kaspar (1)

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4. Insmid Incorporated, Bridgewater, New Jersey, United States
5. University of Missouri, Columbia, Missouri, United States

P0407 Lipid-Conjugated SRSF1-Targeting siRNAs Provide Neuroprotection In Multiple Models Of C9orf72 And Sporadic ALS

Guillaume Hautbergue (1,2), Ya-Hui Lin (2), David Burrows (2), Sophie Badger (2), Amy Keerie (2), Adrian Higginbottom (2), Aurore Besse (1), Mimoun Azzouz (2), Pamela Shaw (2), Jonathan Foley (1)

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P0408 RT1999 Is Neuroprotective Across Multiple Models Of ALS And Neurodegeneration

Kim A. Staats

Raya Therapeutic, Inc., Montreal, Canada

P0409 A Multisystem And Multitarget Therapeutic Approach To Hamper Amyotrophic Lateral Sclerosis (Multitreatals)

Laura Pasetto, Alessia Ghioni, Sara Ficara, Cassandra Margotta, Paola Fabbri, Giovanni Nardo, Valentina Bonetto

Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milano, Italy

P0410 CK-1 Dysregulation Promotes TDP-43 Pathology In SOD1-ALS Models: AP-2 As A Therapeutic Candidate

Loreto Martinez-Gonzalez (1,2), Virginia García-Calvo (1,2), Eva P. Cuevas (1,2), Carmen Gil (1,2), Eva De Lago (3,2), Ana Martinez (1,2)

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P0411 Effect Of Recombinant Mouse Glutamic Oxaloacetic Transaminase 1 Treatment In The SOD1*G93A Mouse Model Of ALS

Lucía Del Pozo-Filíu (1), Clara Correa-Paz (1,2), Noelia Otero-Rial (1), Nuria Palomar-Alonso (1), Esteban López-Arias (1), Antonio Dopico-López (1), Lara Pérez-Gayol (1), Laura Moreno-Martínez (3), Rosario Osta (3), María Pérez-Mato (1), Ana Bugallo-Casal (1), Tania García-Sobrino (4), Beatrice Canneti-Heredia (4), Julio Pardo-Fernández (4), Francisco Campos (1)

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4. Department of Neurology, Hospital Clínico Universitario de Santiago, Santiago De Compostela, Spain

PO412 From Mechanisms To Therapy: A Multi-Target Combination Strategy In C9orf72-ALS

Marco Cattaneo (1), Flaminia Fruzzetti (2), Eleonora Giagnorio (1), Giorgia Farinazzo (1), Claudia Malacarne (1), Silvia Bonanno (1), Eleonora Dalla Bella (1), Elia Di Schiavi (3), Nina Bono (2), Gabriele Candiani (2), Giuseppe Lauria Pinter (1), Stefania Marcuzzo (1)

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3. Institute of Biosciences and BioResources, Consiglio Nazionale delle Ricerche, Naples, Italy

PO413 Targeting Neuromuscular Junction Regeneration As A Therapeutic Strategy In ALS

Michela Rigoni (1), Samuele Negro (1), Chiara Baggio (1), Giorgia D'Este (2), Federico Fabris (1), Giulia Zanetti (1), Marika Tonellato (1), Maria Lina Massimino (3), Roberta Schellino (4), Valentina Bonetto (5), Manuela Basso (6), Cristiano Corona (7), Gianni Soraru (8), Ersilia Fornetti (9), Andrea Mattarei (10), Aram Megighian (1), Cesare Montecucco (1), Marco Pirazzini (1)

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10. Department of Pharmaceutical and Pharmacological Sciences, University of Padua, Padua, Italy

PO414 Therapeutic Potential Of The X Protein Of Orthobornavirus Bornaense Type 1 Expressed In Astrocytes Of A Transgenic Mice Models Of Amyotrophic Lateral Sclerosis

Nicolas Boissart (1), Stéphanie Astord (2), Piera Smeriglio (2), Gwendal Le Masson (1), Stéphanie Chevallier (1)

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2. Université de la Sorbonne, Institut de Myologie, Paris, France

PO415 Del01-ATG4B Shows Broad Central Nervous System Distribution And Reduces ATG4B Cryptic Exon Inclusion In A Pilot Therapeutic Study

Pascual Torres (1), Pol Andrés-Benito (2,3), Santiago Rico-Ríos (1), Míriam Cerón-Codorniu (1), Marta Torres (1), Anna Fernández-Bernal (1), Samra Maqsood (1), Victòria Ayala (1), Yahya Jad (4,5), Manuel Sánchez-Martín (6), Miguel Varela (4,5), Matthew J A Wood (4,5), Reinald Pamplona (1), Manuel Portero-Otín (1)

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P0416 RXR-Driven Molecular Dysregulation Drives Amyotrophic Lateral Sclerosis And Is Rescued By Bexarotene

Rachel A Kline (1,2), Reiss Pal (2,3), Helena Chaytow* (2,4), Bhuvaneish T Selvaraj (2,3), Thomas H Gillingwater\$ (2,4), Thomas M Wishart\$ (1,2,5)*

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4. Department of Anatomy, Edinburgh Medical School, University of Edinburgh, United Kingdom
5. Centre for Systems Health and Integrated Metabolic Research, Nottingham, United Kingdom

P0417 Systemic Administration Of A Cell-Internalizing CYTOPE® Targeting PTDP-43 Reduces CNS Intraneuronal Pathology In A Mouse Model Of TDP-43 Proteinopathy

Ian David Gallager, Lauri Wan Li, Kimberly Thomas, Heather Prill, Gang Zhang, Joshua Salmans, Erich Goldbach, Brian Michael Campbell, Robert Patrick Brendza, Philip James Dolan, Tarlochan Nijjar, Stephen Jed Tam
Prothema Biosciences, Brisbane, United States

P0418 CPT1 Inhibition Restores Metabolic Balance And Slows Disease Progression In ALS

Viktória Reháková (1,2), Yuanyuan Zeng (3), Amanda Krøger (3), Anne Skøttrup Mørkholt (1), Caroline C. Real (4), Carsten Scavenius (5), Claire F. Meehan (2), Anne Landau (4), John D. Nieland (1,3), Steinunn S. Helgudóttir (1)

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PRESYMPTOMATIC (included in the posters session I)

PO419 Metabolic Reprogramming Of Skeletal Muscle In Asymptomatic ALS Gene Mutation Carriers

Celine Buon (1), Dimitrije Milunov (2), Delphine Sapaly (1), Timothee Lenglet (3), Maria Del Mar Amador (3), Elsie Piller (1), Flore Cheguillaume (1), Stéphanie Bauche (4), Isabelle Le Ber (5), Francois Salachas (3), Foudil Lamari (6), Anthony Behin (6), Teresinha Evangelista (7), François-Jerome Authier (8), Soham Saha (2), Frederic Charbonnier (1), Laure Weill (1), Gaelle Bruneteau (1,9)

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3. Paris ALS centre, APHP, Paris, France
4. Sorbonne University, Paris, France
5. Paris Brain Institute, Paris, France
6. Pitié-Salpêtrière, APHP, Paris, France
7. Myology Institute, Paris, France
8. Henri Mondor Hospital, APHP, Paris, France
9. Paris ALS center, APHP, Paris, France

PO420 Spatiotemporal Transcriptomics Reveals Early Immune-Stromal Dysregulation In Pre-Symptomatic ALS Skin

Kristine Roberts (1,2), Angus Macleod (3), Katie Hanna (1), Jayne Innes (2), Joan Wilson (2), Mattia Piana (2), Holly Spence (1), Jenna Gregory (1)

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2. NHS Grampian Biorepository, Aberdeen, United Kingdom
3. Institute of Applied Health Sciences, University of Aberdeen, Aberdeen, United Kingdom

PO421 Raman Spectroscopic Mapping Reveals Biochemical Alterations In Presymptomatic ALS Skin

Katie Hanna (1), Kristine Roberts (2), Joan Wilson (3), Jayne Innes (3), Fiona Read (2), Angus Macleod (2), Fergal Waldron (2), Karen Faulds (1), Jenna Gregory (2)

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2. University of Aberdeen, Aberdeen, United Kingdom
3. Aberdeen Royal Infirmary, Aberdeen, United Kingdom

PO422 Longitudinal Changes In Urinary P75ECD Levels In Presymptomatic And Early ALS – A PremodiALS Study

Laura Tzeplaeff (1), Ana Galhoz (2), Danielle Renfrey (3), Philippe Corcia (4), Markus Weber (5), Monika Turcanova Koprusakova (6), Hilmi Uysal (7), Michael P Menden (8), Mary-Louise Rogers (3), Paul Lingor (1)

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2. Helmholtz Munich, Munich, Germany
3. College of Medicine and Public Health of the Flinders University, Adelaide, Australia
4. CHRU Bretonneau, Tours, France

5. ALS Clinic of the Kantonsspital St. Gallen, St. Gallen, Switzerland
6. Jessenius Medical Faculty Comenius University, Martin, Slovakia
7. Akdeniz University Hospital, Antalya, Turkey
8. University of Melbourne, Melbourne, Australia

PO423 Molecular Insights Into Gastrointestinal Protein Aggregation And Neurodegenerative Disease Risk

Tatiana Langerova (1), Emma Macvicar (2), Kristine Roberts (1), Ewan Campbell (1), Fergal M Waldron (1), Rollo Press (2), George Ramsay (2), Jenna M Gregory (1)

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PO424 Structural Brain Alterations In Amyotrophic Lateral Sclerosis Pre-Diagnosis: A UK Biobank Study

Yezhou Li, Alicia Northall, Jiali Gao, Cory Holdom, Christos Chalitsios, Elizabeth Dellar, Kevin Talbot, Alexander Thompson, Martin Turner
Oxford University, Oxford, United Kingdom

TRANSLATIONAL RESEARCH, NETWORKS AND PLATFORMS (included in the posters session I)

PO425 Building A Scalable Global Framework For ALS/MND Natural History Research

Alexander V. Sherman (1,2), Senda Ajroud-Driss (3), Tawfiq Al-Lahham (4), Ximena Arcila Londono (5), Federica Cerri (6), Vivian Drory (7), Marc Gotkine (8), Mehdi Ghasemi (9), Kelly Gwathmey (10), Ghazala Hayat (11), Terry Heiman-Patterson (12), Christian Lunetta (13), Nicholas Olney (14), Jeffrey Rosenfeld (15), Melanie G. Taylor (16), David Walk (17), Abel Wu (18), James Wymer (19)

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2. Harvard Medical School, Boston, United States
3. Les Turner ALS Center at Northwestern Medicine, Chicago, United States
4. University of Pittsburgh, Pittsburgh, United States
5. Henry Ford Health Systems, Detroit, United States
6. Neuromuscular Omnicenter (NEMO), Milan, Italy
7. Tel Aviv Sourasky Medical Center, Tel Aviv, Israel
8. Hadassah Medical Center, Jerusalem, Israel
9. Lahey Hospital & Medical Center, Burlington, United States
10. Virginia Commonwealth University Health, Richmond, United States
11. Saint Louis University School of Medicine, Saint Louis, United States
12. MDA/ALS Center of Hope, Temple University, Philadelphia, United States
13. ICS Maugeri, Milan, Italy
14. Providence ALS Center, Providence, United States
15. Loma Linda University, Loma Linda, United States
16. Trinity Health Grand Rapids, Grand Rapids, United States
17. University of Minnesota, Minneapolis, United States
18. Kaiser Permanente, Pasadena, United States
19. University of Florida, Gainesville, United States

PO426 Neuromine: An Open-Access Platform For Harmonized Clinical And Multi-Omics Data Across ALS Cohorts

Brandon Jernigan, Terri Thompson

Neuromine, San Diego, United States

PO427 SEED-ALS Project: Synergizing Efforts To Develop And Accelerate Breakthroughs In ALS Research

Carmen Paradas (1,2,3), Estela Area-Gómez (4,3), JUAN FRANCISCO Vazquez (5,6), Raúl Juntas (7), Ricard Rojas-García (8,3), Alberto García-Redondo (9,10), Ana Martínez (11,3), Aurora Pujol (12,6), Manel Esteller (13,14,15,16), Anna Esteve (17), Davide Cirillo (20), Rosario Carmona (22,10), Oriol Dols (23,24), Fernando Martín (25,26,27), Pol Andrés (28,3), Monica Povedano (29,30), Adolfo López De Munain (31,3), SEED-ALS Consortia (30,3)

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16. Centro de Investigación Biomédica en Red Cancer, Madrid, Spain

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18. Instituto de Salud Carlos III

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20. Motor Neuron Disease Clinic, Barcelona, Spain

21. Sant Pau Research Institute (IRSantPau)

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- 31. Neurosciences Area, Biogipuzkoa Health Research Institute, Donostia, Spain

PO428 CAPTURE ALS: Comprehensive Analysis Platform To Understand, Remedy, And Eliminate ALS

HyungMo Kang (1), Tanushka Anand (2), Harpreet Bhinder (2), Alice Cornet (3), Nicolas Dupré (4), Yvonne Frater (5), Angela Genge (1), Shelagh K. Genuis (2), Wendy S. Johnston (2), Westerly Luth (2), Geneviève Matte (3), Clémence Tremblay-Desbiens (4), Lorne Zinman (5), Sanjay Kalra (2)

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- 2. University of Alberta, Edmonton, Canada
- 3. Centre Hospitalier de l'Université de Montréal, Montreal, Canada
- 4. CHU de Québec-Université Laval, Quebec, Canada
- 5. Sunnybrook Research Institute, Toronto, Canada

PO429 GoALS – A Research Program For A Breakthrough In The Cure Of ALS

Leonard H. Van Den Berg, Jan H. Veldink, Jeroen Pasterkamp, Suzanne E. Koch
UMC Utrecht, Utrecht, The Netherlands

PO430 Establishing A High-Throughput Phenotypic Screening Platform For C21ORF2-Associated ALS Using iPSC-Derived Motor Neurons

Pavol Zelina, Evgenia Kokosali, Serife Uysal, Jeroen Pasterkamp
UMC Utrecht Brain Center, Utrecht, The Netherlands

PO431 Unraveling TBK1- And KIF5A-Linked Mechanisms Of Oligodendrocyte Dysfunction In Amyotrophic Lateral Sclerosis By Integrative Transcriptomic Profiling

Seyed Babak Loghmani (1), Rosanna Parlato (2), Jochen Weishaupt (1)
1. University Hospital Ulm, Ulm, Germany
2. University Hospital Mannheim, Mannheim, Germany

PO432 LLM-Based Conversational Analytics For ALS Use Cases From The Precision-ALS Framework

Tamara Matthews, Robert Ross
Technological University Dublin, Dublin, Ireland

ENCALS

European Network to Cure ALS

SECOND SECTION



Industry Sponsored session

AL-S PHARMA

AL-S Pharma Symposium
Tuesday, June 23rd
14.00-16.30
Buenos Aires – Havana – Mexico Room



Ferrer-Prilenia Symposium
Wednesday, June 24th
11.45-13.00
Buenos Aires – Havana – Mexico Room



Italfarmaco Symposium
Wednesday, June 24th
11.30-13.00
Caracas – Bogotá Room

AL-S PHARMA'S ENCALs 2026 INDUSTRY SYMPOSIUM

AL-S PHARMA

Tuesday, June 23th

14.00-16.30

Buenos Aires–Havana–Mexico Room

Format: Three 20-25-minute talks with 5-10-minute Q&A for each,
followed by panel discussion and Q&A (45 minutes)

BEYOND “SPORADIC” ALS: GENETICS, BIOMARKERS, AND THE MISFOLDED SOD1 PATHWAY

Symposium Description

This symposium will bring together internationally recognized leaders in ALS research to examine how advances in disease biology are reshaping clinical investigation and therapeutic development. Designed for neurologists, physician-scientists, clinical trialists, and industry professionals in drug development, the session will connect emerging insights in genetic architecture, biomarker interpretation, and protein misfolding biology to the practical realities of ALS diagnosis, stratification, and trial design. The symposium will open with a contemporary reappraisal of so-called sporadic ALS, challenging the traditional familial/sporadic divide and highlighting a more nuanced view of genetic contribution and disease architecture; it will then turn to neurofilament biomarkers in ALS clinical trials, focusing on what these markers have taught us over time, where they are most useful today, and how they should be interpreted in the context of therapeutic studies; and it will conclude with a deep dive into the misfolded SOD1 pathway, addressing its biologic significance, mechanistic implications, and relevance for biomarkers and targeted therapies.

Featured Speakers and Talk Titles

1. Prof. Ammar Al-Chalabi, PhD, FRCP, FMedSci

Beyond “Sporadic” ALS: Rethinking Genetic Architecture and Disease Classification

- Reassessing the limitations of the traditional familial/sporadic divide in ALS
- Exploring how rare variants, polygenic risk, penetrance, and gene–environment interplay may shape sporadic disease and future precision trial design

2. Prof. Dame Pamela Shaw, DBE, MBBS, MD, FRCP, FAAN, FANA, FAAAS

Neurofilament Biomarkers in ALS Clinical Trials: Then, Now, and How to Interpret Them

- Tracing the evolution of neurofilament biomarkers from research tools to established components of ALS clinical development
- Examining their current utility and the key challenges in interpretation across prognosis, stratification, pharmacodynamic assessment, and trial design

3. Prof. Philip Van Damme, MD, PhD

The Role of SOD1 in ALS

- Reviewing the lessons learned from SOD1-ALS
- Discussing how misfolded SOD1 could play a role in the absence of SOD1 mutations

Panel Discussion: Translating ALS Biology into Better Trials

Moderator: Angela Genge, MD, FRCP(C), eMBA, chief medical officer, AL-S Pharma AG

Panelists: Prof. Leonard van den Berg, PhD, Prof. Andrea Malaspina, MD, PhD,
Prof. Julian Grosskreutz, MD

A moderated panel discussion will follow the presentations, bringing together the speakers and invited experts to discuss how emerging insights in ALS genetics, biomarker interpretation, and misfolded protein biology can be translated into better trial design, patient stratification, and therapeutic development.

ADVANCING NEUROPROTECTIVE CARE IN RARE DISEASES

Strength Through Partnership

Wednesday, June 24th

11.30-13.00

Buenos Aires - Havana - Mexico Room



11:30 - 11:45 PREVAiLS Phase 3 update:

Biological rationale, study design and implications for patient-relevant outcomes in ALS

MA's part of TRICALS Satellite Meeting

11.45-13.00 From Disease Burden to Meaningful Benefit in ALS:

Aligning Symptom Relevance, Management, and Novel Trial Endpoints

Ferrer-Prilenia Satellite Meeting

ALS MILESTONES AND TOMORROW MEDICINE: A JOURNEY FROM 1990 TO THE FUTURE

Wednesday, June 24th

11:30 - 13:00

Caracas-Bogota Room



Chairman:

The European ALS Community's Commitment: Learning from the Past to Shape the Future.

Pr. Philippe Corcia, Tours (France)

Speakers:

Milestones in ALS over the last 30 years

Pr. Julian Grosskreutz, Luebeck (Germany)

The future of ALS diagnosis

Pr. Mónica Povedano, Barcelona (Spain)

The future of ALS care

Pr. Nicola Ticozzi, Milano (Italy)

Advancing Neuroprotective Care in Rare Diseases

Strength Through Partnership

Ferrer and Prilenia, are committed to changing the lives of people with neurodegenerative diseases. United to accelerate innovative new therapies for patients, Ferrer brings expertise in rare neurological diseases, while Prilenia brings experience with pridopidine and neurodegenerative diseases. Ferrer is the highest-rated pharma B Corp, reinvesting ~50% of profits in social and environmental initiatives. Prilenia is driven by unwavering commitment to scientific excellence in developing transformative medicines for neurodegenerative diseases.

Join the Scientific Exchange

Satellite Meetings

Location: BUENOS AIRES - HAVANA – MEXICO Room

📅 Wednesday, June 24th

11:30 - 11:45

PREVAiLS Phase 3 update: Biological rationale, study design and implications for patient-relevant outcomes in ALS.

As part of TRICALS Satellite Meeting

11:45 - 13:00

From Disease Burden to Meaningful Benefit in ALS: Aligning Symptom Relevance, Management, and Novel Trial Endpoints.

Ferrer-Prilenia Satellite Meeting



Prof. Leonard van den Berg, MD, PhD

UMC Utrecht, The Netherlands



Valérie Berlaumont, PhD

ALS Patient, member of ALS Liga and EUpALS



Assoc. Prof. Andrea Calvo, MD, PhD

Università degli Studi di Torino, Italy



Assoc. Prof. Ruben van Eijk, MD, PhD

UMC Utrecht, The Netherlands



Prof. Caroline Ingre, MD, PhD

Karolinska Institutet and Karolinska University Hospital, Sweden



PREVAiLS (Pridopidine Phase 3 Study to Evaluate Efficacy and Safety in ALS)
a Phase 3, Randomized, Double-Blind, Placebo-Controlled Study in ALS

📅 **Poster #471**
➔ Exhibition area

📅 Wednesday, June 24th
🕒 17:20h - 19:00h

🍽️ **Session: ENCALS RESEARCH FORUM – POSTERS SESSION**



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Prof. Thomas Meyer

Neurologist specialized in ALS
and neuromuscular disorders



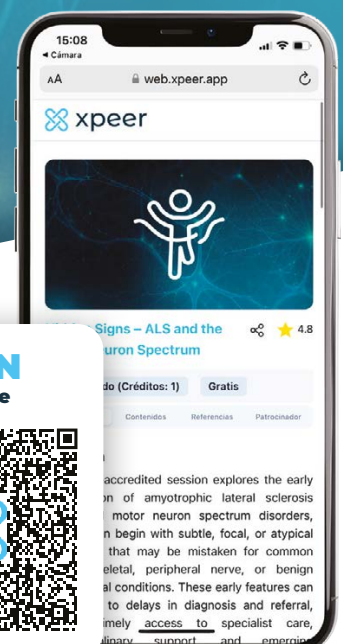
Prof. Leonard van den Berg

Neurologist specialized in ALS and
motor neuron diseases

Live on xpeer

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