

# Scientific Program

RiboRed Congress 2026

May 13-15, 2026 | Sant Feliu de Guixols, Spain



RiboRed

## Organizing Committee

Uciel Chorostecki. Universitat Internacional de Catalunya

Marta Montes Resano. CIMA-Universidad de Navarra

Sonia Jimeno González. University of Seville

Patricia Rojas Rios. University of Seville

Sandra María Fernández Moya. University of Malaga



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DAY 1  
May 13

DAY 2  
May 14

DAY 3  
May 15

15:45 - 16:00

Welcome **Welcome**

16:00 - 16:30

Keynote **Keynote 1: Rory Johnson**

Rory Johnson

16:30 - 17:00

Session **Scientific Session 1**

*Therapeutic RNAs and RNA in disease*

Marc Talló-Parra Lorea Blazquez

17:00 - 17:30

Break **Coffee Break**

17:30 - 18:15

Session **Scientific Session 2**

*Therapeutic RNAs and RNA in disease*

Aaron Ramirez Sánchez Ángela Perez Cervera Julian Valero Moreno

18:15 - 18:30

Flash Talks **Flash Talks**

Rosario Prados María Ángeles Ortiz Hernandez-Egido

18:30 - 20:00

Social **Social Activity**

20:30 - 22:00

Social **Dinner & Networking**

## Session Types

Keynote

Session

Flash Talks

Poster

Outreach

Sponsor

Break

Social

Welcome

Closing



DAY 1  
May 13

DAY 2

DAY 3  
May 15

To exit full screen, press and hold **Esc**

09:00 - 09:30

**Keynote** **Keynote 2: Myriam Gorospe**

Myriam Gorospe

09:30 - 10:30

**Session** **Scientific Session 3**

*Non-coding RNAs*

Carles Ciudad José Antonio Mérida Cerro Ana Gazquez Olga Rueda

10:30 - 10:50

**Flash Talks** **Flash Talks**

Lopez de Silanes Isorchand Chongtham Marcos Galan Ganga Elzbieta Wanowska

10:50 - 11:05

**Sponsor** **Sponsor: Lexogen - Isogen**

11:05 - 11:30

**Break** **Coffee Break**

11:30 - 12:45

**Session** **Scientific Session 4**

*RNA Structure & Function and Dynamics*

Paula Aguilera Nicolas Aira Eric Rovira Mireya Plass Alper Akay

12:45 - 13:00

**Flash Talks** **Flash Talks**

Sara Luengo Patricia Rojas Berta Forcada Brusca

13:00 - 13:10

**Sponsor** **Sponsor: Condalab**

13:10 - 13:20

**Sponsor** **Sponsor: Cultek - dDBioLab**

13:20 - 15:20

**Break** **Lunch & Networking**



DAY 1  
May 13

DAY 2  
May 14

DAY 3  
May 15

15:20 - 16:35

**Session** **Scientific Session 5**

*RNA Processing & Modification / Gene Expression & Epitranscriptomics*

Clara Megías Fernández   Jorge Cruz-Reyes   Laura Arribas-Hernández   Izel Pascual González   Victor González Silva

16:35 - 17:15

**Break** **Coffee Break**

17:15 - 17:40

**Flash Talks** **Flash Talks**

Marion Kennel   Joan Marquez-Mollins   Perera-Bonaño   Katarzyna Hencel   Sandra María Fernández

17:40 - 17:50

**Sponsor** **Sponsor: IDT**

17:50 - 18:00

**Sponsor** **Sponsor: Novogene**

18:00 - 20:00

**Poster** **Poster Session**

20:30 - 22:00

**Social** **Dinner & Networking**

### Session Types

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RiboRed

DAY 1  
May 13

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DAY 3  
May 15

09:00 - 09:10

**Outreach** Outreach Talk

09:10 - 10:55

**Session** Scientific Session 6

*Ribosome & Translation / Emerging Methodologies, AI & Computational RNA*

Carla Galmozzi

Antonio Gentilella

Salvador Abellán Pérez

Pedro Ortega

Mercedes Dosil

Miguel A. Moreno-Mateos

Camila Engler

10:55 - 11:45

**Break** Coffee Break / Brunch

11:45 - 13:00

**Session** Scientific Session 7

*Viral and Bacterial RNAs*

Puig-Torrents

Santiago Oviedo Rouco

Jose Jimenez Zurdo

Agustín Vloque

Alfredo Berzal Herranz

13:00 - 13:30

**Closing** Closing Ceremony

14:00

**Closing** Departure

### Session Types

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**May 13**

**Keynote 1: Rory Johnson**

Decoding the dark matter of the genome

**Scientific Session 1**

**Marc Talló-Parra**

A novel circular RNA-based therapeutical platform for infectious and non-infectious diseases

**Lorea Blazquez**

A framework for the design of personalized antisense oligonucleotide therapies for rare neurological diseases

**Scientific Session 2**

**Aaron Ramirez Sánchez**

Virus-Induced Noncanonical Translation of Non-Coding RNA: A Potential Source of Neoantigens in Type 1 Diabetes

**Ángela Perez Cervera**

Targeting Nonsense-Mediated mRNA Decay (NMD) potentiates radiotherapy and promotes the abscopal effect

**Julian Valero Moreno**

Chemically modified RNAs for enhanced biomolecular targeting and biomedical applications

**Flash Talks**

**Rosario Prados**

Targeting ADAR RNA editing proteins to overcome PARP Inhibitor resistance in BRCA-deficient cells

**Marina Pérez Aguilera**

Application of bulk RNA-Seq in FFPE samples enables reliable transcriptomic profiling and tumor microenvironment characterization in Diffuse large B-cell lymphoma

**Maria Ángeles Ortiz**

Search for new drugs for the treatment of Aicardi-Goutières syndrome

**Hernandez-Egido**

Engineering circular RNAs for selective protein expression in dysfunctional endothelial cells.





## May 14 - morning

### Keynote 2: Myriam Gorospe

RNA networks regulating senescence

### Scientific Session 3

#### Carles Ciudad

Genes and lncRNAs Involved in the Resistance to Methotrexate in Colon Cancer Cells

#### José Antonio Mérida Cerro

SATR2 satellite RNA shapes Replication and Chromatin compaction through nuclear and cytoplasmic DNA-RNA hybrids formation

#### Ana Gazquez

Control of retrotransposon-driven activation of the interferon response by the double-stranded RNA binding protein DGCR8

#### Olga Rueda

Discovering novel plant RNA viroids through planetary data mining

### Flash Talks

#### Lopez de Silanes

TERRA functions are driven by their loci of origin

#### Isorchand Chongtham

lncRNA NEAT1 is a key regulator of autophagy in multiple myeloma

#### Marcos Galan Ganga

Hippocampal small RNAs from patients with schizophrenia induce specific cognitive-like symptoms in mice

#### Elzbieta Wanowska

Modified or Not? Functional Consequences of Single m6A Sites in Breast Cancer lncRNAs

### Scientific Session 4

#### Paula Aguilera

ATRX safeguards rDNA transcription under amonafide induced nucleolar stress

#### Nicolas Aira

Scalable pipeline for RNA structural comparison

#### Eric Rovira

Structural characterization of a U1 snRNP riboswitch allows rational design of novel riboswitches for polyadenylation regulation in mammalian cells

#### Mireya Plass

Staufen2 modulates the temporal dynamics of human neurogenesis in vitro

#### Alper Akay

snRNA modification heterogeneity as a novel alternative splicing mechanism

### Flash Talks

#### Sara Luengo

Uncovering the role of m1A modification of RNA in Therapy-Induced Senescence

#### Patricia Rojas

Uncovering moonlighting roles of glycolysis in piRNA biogenesis in Drosophila germline stem cells

#### Berta Forcada Brusca

Biosynthetic Persister States and Metabolic Plasticity Fuel Tumor Recurrence



## May 14 - afternoon

### Scientific Session 5

**Clara Megías Fernández**

NELF Facilitates Topoisomerase II-associated DNA Damage Response

**Jorge Cruz-Reyes**

Stage-Specific Repression of RNA Editing in Procyclic and Bloodstream Forms of the Trypanosome Lifecycle

**Laura Arribas-Hernández**

How development is regulated by an m6A-YTHDF module: Lessons from plants

**Izei Pascual González**

Deciphering the role of pseudouridine synthase PUS10 in intestinal inflammation.

**Victor González Silva**

Liquid-liquid phase separation of the m6A RNA demethylase ALKBH9B: An IDR-dependent mechanism driving viral infection in Arabidopsis

### Flash Talks

**Marion Kennel**

Insights into the spatial organization and dynamics of Cajal bodies by studying TCERG1-dependent RNA–protein assemblies

**Joan Marquez-Molins**

Understanding stress-triggered biogenesis and function of small RNAs derived of transfer RNAs in plants

**Perera-Bonaño**

Long non-coding RNAs in *Fusarium*: Unraveling new levels of regulations of secondary metabolism.

**Katarzyna Hencel**

The role of vitamin B12 in the regulation of gene expression and cellular methylome during animal development

**Sandra María Fernández**

RNA-binding proteins in neurogenesis and human disease





**May 15**

**Outreach - Belén Moro**

The RNA Hero's Journey Stories & Analogies That Make RNA Stick

**Scientific Session 6**

**Carla Galmozzi**

Decoding the role of the non-essential yeast ribosomal protein eL22 during cytoplasmic maturation of 60S ribosomal subunits and its impact on translation dynamics.

**Antonio Gentilella**

Biosynthetic Persister States and Metabolic Plasticity Fuel Tumor Recurrence

**Salvador Abellán Pérez**

Role of Gemin5 in gene expression and disease (I will send the abstract later)

**Pedro Ortega**

PARP1-Induced Nuclear RNA Condensates Link DNA Damage to Translation Arrest

**Mercedes Dosil**

Disruption of nuclear proteostasis in 40S ribosomal protein deficiencies

**Miguel A. Moreno-Mateos**

CRISPR-Cas RNA-targeting optimizations and screenings in vivo

**Camila Engler**

SPSignal: Web Tool for Structural Prediction of NLS and NES in Proteins

**Scientific Session 7**

**Puig-Torrents**

Host tRNA Epitranscriptome Remodeling Supports Arbovirus Persistence in *Aedes aegypti*

**Santiago Oviedo Rouco**

Targeting RNA Structures for Broad-Spectrum Orthoflavivirus Inhibition

**Jose Jimenez Zurdo**

RNA regulatory networks in nitrogen-fixing legume symbionts

**Agustín Vioque**

Antisense RNA controls phycobilisome degradation in heterocyst-forming cyanobacteria

**Alfredo Berzal Herranz**

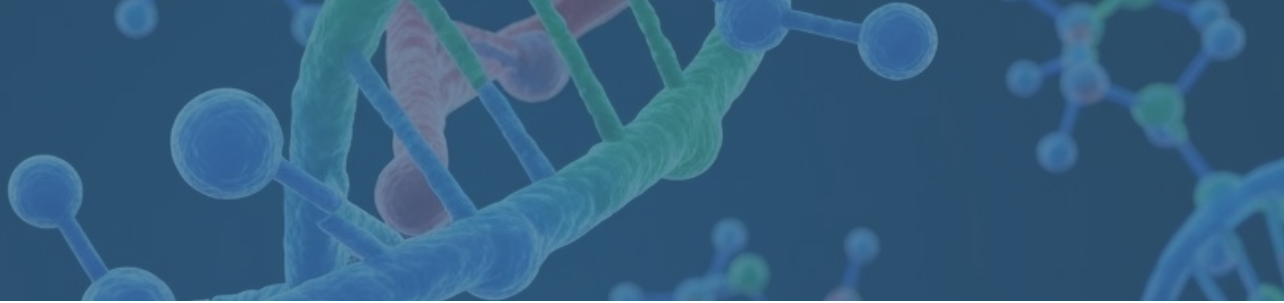
The regulation of the orthoflaviviruses translation is mediated by the RNA elements in the 3' UTR of the genome



## Poster

- Schinkel, Thea.** Cryo-EM Aided Design of Multivalent Aptamer Nanostructures for Enhanced Targeting of hCD40L for Immune Modulation
- Hartmann, Rasmus Rytter.** Chemical modification of mRNA for enhanced stability and protein expression
- KHELGHATI, NAFISEH.** Identification and functional studies of novel microproteins derived from lncRNAs in HCC
- Neis, Kevin.** DNA Carrier-Enhanced Solid-State Nanopore Sensing for Detection and Quantification of RNA Modifications
- García Soriano, Juan Carlos.** Tumor-specific microproteins derived from lncRNAs as antigens for anticancer vaccination
- Lopatukhina, Elena.** Understanding the role of RNA in the regulation of ORC1 in the DNA replication
- Ciudad, Carlos.** Genes and lncRNAs Involved in the progression from Early Transcriptomic Response to Methotrexate Resistance in HT29 Colon Cancer Cells
- Noé Mata, Verónica.** Adenoviral Delivery of RNA-PPRHs against cMYC in Cervical, Hepatocellular Carcinoma and Breast Cells
- Oklińska, Paula.** Toxic RNA versus Toxic Protein: The Role of CGG-Expanded RNA and Polyglycine Protein in FMR1 Repeat Expansion Syndromes
- Caño Prades, Omar.** The host tRNA epitranscriptome: a selective pressure driving viral convergent evolution
- Garcia-Arcediano, Núria.** tRNA-derived fragments generated in Huntington's disease trigger differential immune activation
- Sacchetti, Nicolo.** Impact of dsRNA on cellular viability and reduction of dsRNA in in vitro transcribed mRNA via enzymatic optimization and polishing
- Salgado Lora, Maria Guadalupe.** Long non-coding RNA OIL1 regulates centrosome replication through G-quadruplex secondary structures
- Berge Gardeñes, Maria.** Editing the m6A mark in mHTT RNA: Exploring a new therapeutic strategy in HD
- González López, Lucía.** The RNA editing damage response as a driving force of tumour adaptation
- Civit Pitarch, Laia.** Expanding RNA Aptamer Functionality via Transcriptional Incorporation of Bio-Inspired Nucleotide Modifications
- Kubiak, Klaudia.** Novel regulatory elements at the 5' end of the MBNL1 locus with potential impact on MBNL1 expression
- Alegrio Louro, Jaime .** Towards a Molecular Understanding of Human rDNA Silencing by the Nucleolar Remodelling Complex and the Promoter-associated RNA
- Ponte, Inma.** Differential regulation of histone H1 subtypes by N6-methyladenosine RNA methylation.
- Espadas, Guadalupe.** Low-input mass spectrometry method to monitor ~65 ribonucleoside modifications in a single run
- Belinchón Algarra, Germán.** RetroZearch – Large scale search and characterization of retrozymes in plant genomes
- Pastor, Fernando.** Aptamer-Guided Strategy to Enhance ASO Therapeutics
- Desideri, Fabio.** Investigating the landscape of non-B DNA and RNA structures in Huntington's disease
- Suárez Quintana, Clara.** SIREs 3.0, an improved predictive web server for Iron-Responsive Elements
- Suñé, Carles.** Integrated regulation of RNA splicing and A-to-I editing in pancreatic cancer cells
- Iralde Cárdenas, Beatriz.** Understanding lncRNA NIHCOLE effect on DNA damage repair
- González Seviné, Asier.** Is translational regulation a viable strategy to enhance protein production in the yeast *Komagataella phaffii*?
- Cardona Collado, Anna.** Extracellular Small RNA signatures in Cerebrospinal Fluid reveal early molecular alterations in Huntington's Disease
- Romero Franco, Amador.** Interferon signaling inhibits DNA end resection through ISGylation. Aicardi-Goutières syndrome as disease model.
- Millanes Romero, Alba.** Post-transcriptional control restrains the IL17-GCSF axis and limits neutrophil-driven breast-cancer metastasis





32. **González Silva, Víctor.** Liquid-liquid phase separation of the m6A RNA demethylase ALKBH9B: An IDR-dependent mechanism driving viral infection in Arabidopsis
33. **Luengo , Sara.** Uncovering the role of m1A modification of RNA in Therapy-Induced Senescence
34. **FERNÁNDEZ MOYA, Sandra María.** RNA-binding proteins in neurogenesis and human disease
35. **Rojas Ríos, Patricia.** Uncovering moonlighting roles of glycolysis in piRNA biogenesis in Drosophila germline stem cells
36. **Hernández Egido, Nerea.** Engineering circular RNAs for selective protein expression in dysfunctional endothelial cells.
37. **Kennel, Marion.** Insights into the spatial organization and dynamics of Cajal bodies by studying TCERG1-dependent RNA–protein assemblies
38. **Pérez Aguilera, Marina.** Application of bulk RNA-Seq in FFPE samples enables reliable transcriptomic profiling and tumor microenvironment characterization in Diffuse large B-cell lymphoma
39. **Galán Ganga, Marcos.** Hippocampal small RNAs from patients with schizophrenia induce specific cognitive-like symptoms in mice
40. **Ortiz Bazán, M<sup>a</sup> Ángeles.** Search for new drugs for the treatment of Aicardi-Goutières syndrome
41. **Prados-Carvajal, M. Rosario .** Targeting ADAR RNA editing proteins to overcome PARP Inhibitor resistance in BRCA-deficient cells
42. **Hencel, Katarzyna.** The role of vitamin B12 in the regulation of gene expression and cellular methylome during animal development
43. **Marquez Molins , Joan.** Understanding stress-triggered biogenesis and function of small RNAs derived of transfer RNAs in plants
44. **Chongtham, Isorchand.** lncRNA NEAT1 is a key regulator of autophagy in multiple myeloma
45. **López de Silanes, Isabel.** TERRA functions are driven by their loci of origin
46. **Wanowska, Elzbieta.** Modified or Not? Functional Consequences of Single m6A Sites in Breast Cancer lncRNAs
47. **Engler, Camila.** SPSignal: Web Tool for Structural Prediction of NLS and NES in Proteins
48. **Forcada Brusca, Berta.** Biosynthetic Persister States and Metabolic Plasticity Fuel Tumor Recurrence
49. **Perera Bonaño, Adrián.** Long non-coding RNAs in *Fusarium*: Unraveling new levels of regulations of secondary metabolism.
50. **M<sup>a</sup> Carmen Dominguez Pérez.** miRNA-mediated cell-to-cell communications boost DNA repair during the Radioadaptive Response in human fibroblasts
51. **Eulalia Belloc.** CPEB1 translation repression is mediated by a crosstalk between the 5'CAP and the 3'UTR
52. **Sofía Peiró Gascó.** Role of ASF1 in Topoisomerase II-associated DNA damage response

