



Cima  
Universidad  
de Navarra

PAMPLONA

**OCTOBER 9<sup>th</sup>-11<sup>th</sup>**

2024

# BRIDGING RNA BIOLOGY AND THERAPY:

Exploring the Frontiers of Advanced Medicine

## COORDINATOR

**Maite Huarte**

PhD - Director of DNA and RNA Medicine Division, CIMA

## CO-ORGANIZERS

**Xabier Aguirre**

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**Puri Fortes**

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**Marta Montes**

**Fernando Pastor**

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# BRIDGING RNA BIOLOGY AND THERAPY:

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WEDNESDAY, 9<sup>th</sup> OCTOBER 2024

## SESSION 1

### FUNCTIONAL ncRNAs AND RNA MODIFICATIONS IN DEVELOPMENT AND DISEASE

15:00 - 19:25

#### 1. 1. Noncoding RNA

15:00 - 15:10

#### Welcome/Presentation

15:10 - 15:50

#### Keynote - RNA origin of sex biased immunity

Dr. Howard Chang

*MD, PhD, Stanford University, USA*

15:50 - 16:15

#### RNA-based mechanisms orchestrating the cell cycle and genome stability in cancer

Dr. Lovorka Stojic

*MSc, PhD, Barts Cancer Institute, UK*

16:15 - 16:40

#### Title pending

Dr. Puri Fortes

*CIMA, Spain*

16:40 - 16:55

#### Short talk 1

16:55 - 17:10

#### Short talk 2

17:10 - 17:40

#### Coffee break

17:40 - 18:05

#### Functions and modes of action of cis-acting long noncoding RNAs

Prof. Igor Ulitsky

*BSc, PhD, Weizmann Institute of Science, Israel*

18:05 - 18:30

#### Eradicating drug tolerance persister cancer cells by targeting lncRNAs

Prof. Eleonora Leucci

*PhD, Katholieke Universiteit Leuven, Belgium*

18:30 - 18:55

#### Title pending

Dr. Maite Huarte

*PhD, CIMA, Spain*

18:55 - 19:10

#### Short talk 3

19:10 - 19:25

#### Short talk 4

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# BRIDGING RNA BIOLOGY AND THERAPY:

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THURSDAY, 10<sup>th</sup> OCTOBER 2024

## 09:00 - 10:45 1. 2. RNA Modifications

- 09:00 - 09:25 **Title pending**  
Dr. Anders Lund  
*PhD, Biotech Research and Innovation Centre (BRIC), Denmark*
- 09:25 - 09:50 **Harnessing noncoding RNA modifications for innovative disease therapies**  
Dr. Ainara Castellanos  
*PhD, University of the Basque Country, Spain*
- 09:50 - 10:15 **Targeting RNA methylases in cancer**  
Dr. Sandra Blanco  
*PhD, Centro de Investigación del Cáncer (CIC), Spain*
- 10:15 - 10:30 **Short talk 5**
- 10:30 - 10:45 **Short talk 6**
- 10:45 - 11:15 *Coffee break*

## SESSION 2 ADVANCING RNA THERAPEUTICS

### 11:15 - 18:30 2. 1. RNA Aptamers

- 11:15 - 11:40 **Drug-regulated aptamers for controlling gene expression and cell function**  
Dr. Samie Jaffrey  
*MD, PhD, Cornell University, USA*
- 11:40 - 12:05 **Novel advances in mRNA therapeutics and delivery**  
Dr. Paloma Giangrande  
*PhD, Eleven Therapeutics, USA*
- 12:05 - 12:30 **Aptamers for cancer immunotherapy**  
Dr. Fernando Pastor  
*CIMA, Spain*
- 12:30 - 12:55 **Topical application of aptamers**  
Dr. Günter Mayer  
*PhD, Cornell University, USA*
- 12:55 - 13:10 **Short talk 7**
- 13:10 - 13:25 **Short talk 8**
- 13:25 - 15:00 *Lunch and poster presentations*

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15:00 - 18:30

## 2. 2. RNA Delivery

15:00 - 15:25

### Engineering polymer/lipid nanocarriers for specific RNA delivery

Dr. María José Alonso

*University of Santiago de Compostela, Spain*

15:25 - 15:50

### Title pending

Dr. Paolo Martini

*PhD, Moderna, USA*

15:50 - 16:15

### Versatility of LNP mRNA therapies: from rare to liver infectious diseases

Dr. Ramón Díaz Trelles

*PhD, Seawolf Therapeutics, USA*

16:15 - 16:30

### Short talk 9

16:30 - 17:00

### Coffee break

17:00 - 17:25

### Advancing Personalized Nanomedicine Through RNA Nanoparticles

Dr. María Blanco-Prieto

*University of Navarra, Spain*

17:25 - 17:50

### Engineering Circular RNA Therapeutics

Dr. Miao-Chih Tsai

*MSc, PhD, Stanford University, USA*

17:50 - 18:15

### Next generation of mRNA based vaccines

Dr. Patrick Baumhof

*PhD, CureVac, Germany*

18:15 - 18:30

### Short talk 10

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FRIDAY, 11<sup>th</sup> OCTOBER 2024

## SESSION 3

### TARGETING RNA SPLICING

09:00 - 09:25

#### Therapeutic approaches for RNA splicing modulation in oncology

Dr. Juan Valcárcel

*PhD, Center for Genomic Regulation (CRG), Spain*

09:25 - 09:50

#### Targeting RNA-processing in neurological disorders with antisense oligonucleotides and beyond

Dr. Lorea Blázquez

*PhD, Biogipuzkoa Health Research Institute, Spain*

09:50 - 10:15

#### Antisense Modulation of RNA Splicing for Rare Disease Therapy

Dr. Adrian Krainer

*PhD, Cold Spring Harbor Laboratory, USA*

10:15 - 10:30

#### Short talk 11

10:30 - 10:45

#### Short talk 12

10:45 - 11:15

*Coffee break*

## SESSION 4

### THERAPEUTIC mRNA

11:15 - 11:40

#### Title pending

Dr. Ignacio Melero

*MD, PhD, CIMBA, Spain*

11:40 - 12:05

#### Title pending

Invited Speaker TBC

12:05 - 12:25

#### Cancer Epitranscriptomics: from knowledge to applications

Dr. Manel Esteller

*MD, PhD, Instituto de Investigación contra la Leucemia Josep Carreras, Spain*

12:25 - 12:40

#### Short talk 13

12:40 - 12:55

#### Short talk 14

12:55 - 13:10

*Closing remarks*

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# BRIDGING RNA BIOLOGY AND THERAPY:

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## Abstract Submission

*The Scientific Committee welcomes submissions  
for abstract presentations at the Bridging RNA Biology and Therapy:  
Exploring the Frontiers of Advanced Medicine.*

*Online submission of abstracts will be open from May 6<sup>th</sup> to September 2<sup>nd</sup>.*

*Submit your abstract here*

<https://doctaforum.com/bridgingrnabiologyandtherapy/abstracts>

## Venue

**CIMA - Universidad de Navarra**

Av. De Pío XII 55, 318008 Pamplona, Navarra

## Organized by



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