



Nuclear Receptors and Metabolism. The MetNet-NuRCaMeIn-French Liaison

1st Spanish-French Nuclear Receptors Joint Meeting

9th Annual MetNet International Meeting

Barcelona, October 10-11, 2023

Tuesday October 10th

- 9:00-9:25 **Registration**
- 9:30-9:40 **Welcome: Eva Estébanez (NuRCaMeIn), Françoise Lenfant (French NRs), Laura Herrero (MetNet)**
- Session 1**
9:45-10:30 **Chair - Annabel Valledor**
Eduardo Chini, Mayo Clinic, Rochester, USA. Keynote speaker
Evolving concepts in NAD⁺ metabolism: Role in life, death and everything in between
- 10:30-11:00 **Carlos Sebastián**, Universitat de Barcelona, Barcelona, Spain.
Cancer metabolism in space and time: metabolic heterogeneity and evolution of tumors
- 11:00-11:20 **Stefan Prekovic**, Center for Molecular Medicine, UMC Utrecht, Utrecht, The Netherlands.
Loss of cohesion subunit induces metabolically supported lineage switching via nuclear receptor reprogramming in lung cancer
- 11:20-12:00 **Coffee & refreshments provided**
- Session 2**
12:00-12:30 **Chair – Carme Caelles**
Eckardt Treuter, Karolinska Institutet, Huddinge, Sweden
Epigenetic control of metabolism and inflammation by the NR corepressor complex
- 12:30-13:00 **Rosa Gasa**, IDIBAPS, Barcelona, Spain
Generation of human insulin-producing cells in the laboratory
- 13:00-13:30 **Coralie Fontaine**, I2MC, Toulouse, France
Revisiting ERα activation in vascular injury and repair: Implication for menopause hormonal treatment
- 13:30-13:50 **Antonio Castrillo**, CSIC-Madrid and UIBS-Universidad de Las Palmas Gran Canaria, Spain
Reprogramming of the LXRA transcriptome sustains macrophage inflammatory responses
- 13:50-15:25 **Finger food lunch provided + Poster session 1**
- Session 3**
15:30-16:00 **Chair – David Sebastián**
Maria del Mar Vivanco, CIC-Biogune, Bilbao, Spain
Breast cancer heterogeneity and therapy evasion
- 16:00-16:30 **Andrés Méndez-Lucas**, Universitat de Barcelona, Barcelona, Spain
In vivo stable-isotope metabolomics to uncover metabolic adaptations that support malignancy
- 16:30-16:50 **Núria Amigó**, Biosfer-Teslab, Reus, Spain. Technological platform.
NMR metabolomics: present and future for clinical diagnosis of cardiovascular diseases
- 16:50-17:20 **William Bourguet**, CBS-CNRS, Montpellier, France
Structure of the dioxin receptor (AHR) revealed by cryo-electron microscopy
- 17:20-17:40 **Jacob Aguirre**, Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland
A ligand-induced degradation mechanism across the nuclear receptor family
- 17:40-18:00 **Silvia Mora**, Institut de Biomedicina-Universitat de Barcelona (IBUB), Spain
Cbl is essential for efficient mitochondrial respiration and metabolism in muscle cells
- 18:00-18:20 **Gerard Godoy-Tena**, Josep Carreras Research Institute (IJC), Badalona, Spain
Retinoic acid-dependent epigenomic and transcriptomic remodelling leading to immunosuppressive dendritic cells



Wednesday October 11th

Session 4

Chair – Françoise Lenfant

9:00-9:30

Saskia van Mil, UMC, Utrecht, Netherlands
FXR isoforms matter

9:30-10:00

Karine Gauthier, ENS, Lyon, France
Thyroid hormone and thermogenesis: a dialogue between the neurons and the brown adipocytes

10:00-10:30

Inés Pineda-Torra, Cabimer, Sevilla, Spain
Regulation of lipid metabolism by LXR: beyond the usual suspects

10.30-11.00

Josep Villena, VHIR, Barcelona, Spain
Pathogenic actions of estrogen-related receptors in cardiac function

11:00-12:00

Coffee & refreshments provided + Poster session 2

Session 5

Chair – Coralie Poulard

12:00-12:30

Muriel Le Romancer, CRCL, Lyon, France
Role of arginine methyltransferase PRMT5 as a marker of sensitivity to tamoxifen in ER α + breast cancers

12:30-13:00

Pedro M. Fernández Salguero, Universidad de Extremadura, Badajoz, Spain
AHR in senescence and stemness: Roles in tissue regeneration and tumor progression

13:00-13:30

Paloma Pérez, IBV-CSIC, Valencia, Spain
Skin glucocorticoid signaling impacts the whole-body metabolism

13:30-13:50

Andrea Alegre-Martí, Institut de Biomedicina-Universitat de Barcelona (IBUB), Spain
A hotspot for posttranslational modifications on the androgen receptor dimer interface drives pathology and anti-androgen resistance

13:50-15:10

Lunch on your own

Session 6

Chair – Eva Estébanez-Perpiñá

15:10-15:40

Diego Álvarez de la Rosa, Universidad de La Laguna, La Laguna, Spain
Interplay between corticosteroid receptors

15:40-16:00

Eugènia Ruiz, GATTx, Barcelona, Spain.
A novel therapeutic for the treatment of fibrotic diseases

16:00-16:20

Christel Péqueux, GIGA-Cancer, University of Liège, Belgium
Estetrol combined to progesterone for menopause or contraception indication has limited effect on breast cancer growth

16:20-16:40

Stéphanie Chauvin, ERL INSERM, Université Paris Cité, Paris, France
A complex crosstalk between estrogen receptor β isoforms signaling regulates human granulosa cell growth

16:40-17:00

Mona Peyman, Institut de Biomedicina-Universitat de Barcelona (IBUB), Spain
Soluble epoxide hydrolase-targeting PROTAC activates AMPK and inhibits ER stress

17:00-17:45

Mercedes Ricote, CNIC, Madrid, Spain. Keynote speaker
Mother's milk drives maturation of heart metabolism

17:45-18:00

Concluding remarks and farewell by Annabel Valledor

Organizing Committee:

Annabel Valledor, Universitat de Barcelona, afernandezvalledor@ub.edu
Carne Caelles, Universitat de Barcelona, ccaelles@ub.edu
Eva Estébanez-Perpiñá, Universitat de Barcelona, evaestebanez@ub.edu

Scientific Committee:

President: Francesc Villarroya, Universitat de Barcelona
Vocals: Coraline Poulard, Université de Lyon; Patrick Balaguer, Université de Montpellier;
David Sebastián, Universitat de Barcelona; Françoise Lenfant, Inserm – French Institute of
Health & Medical Research; Carne Caelles, Universitat de Barcelona

Secretariat:

Maite Sánchez, Mariàngels Gallego. SCB-IEC. scb@iec.cat