



Second Meeting – Spanish Network of Translational Research on Puberty

RECENT PROGRESS IN PUBERTY RESEARCH Integrating Basic, Translational and Clinical Research

20-21 January 2025
Residencia de Estudiantes
Madrid

Day 1: January 20th, 2025

Arrival - Registration

9:00 – 11:15

Welcome and initial remarks

11:00 – 11:30

Manuel Tena-Sempere, Coordinator RETIT-PUB

Session 1

11:30 – 13:30

Genetic and environmental determinants of puberty

Chairperson: [Judit Bassols](#), *Girona Biomedical Research Institute (IDIBGI)* & [Gloria Bueno](#), *University of Zaragoza*

1. Genetic causes of central precocious puberty
[Jesús Argente](#), *Hospital Infantil Universitario Niño Jesús & Universidad Autónoma de Madrid*
2. Genetic causes of delayed puberty
[Sasha Howards](#), *Queen Mary – University of London (UK)*
3. Nutritional and lifestyle determinants of early obesity and puberty
[Mercedes Gil-Campos](#), *University of Cordoba, Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC) and Hospital U. Reina Sofía*
4. Nutritional status and physical activity in children: Implications for obesity and long-term health
[Luis Moreno](#), *University of Zaragoza*



Break #1

13:30 – 14:30

Session 2

14:30 – 16:30

Clinical studies in normal and altered puberty

Chairperson: [Concepción Aguilera](#), *University of Granada* & [María José de la Torre](#),
Hospital Universitario Reina Sofía e IMIBIC

1. Time-restricted feeding in pre-pubertal and pubertal pediatric patients with obesity: Results from the TRansForm study

[Carles Lerín](#), *San Joan de Deu Research Institute (IRSJD)*

2. Epigenetic determinants of pubertal alterations in children

[Leandro Soriano-Guillén](#), *Fundación Jiménez Díaz & Universidad Autónoma de Madrid*

3. Clinical management of girls with early puberty

[Abel López Bermejo](#), *Girona Biomedical Research Institute (IDIBGI) & University of Girona*

4. Novel genetic basis of congenital hypogonadotropic hypogonadism – Implications for puberty

[Nelly Pitteloud](#), *University of Lausanne - CHUV (Switzerland)*

Break#2

16:30 – 17:00

Session 3

17:00 – 19:00

Preclinical studies of puberty and its alterations using model species

Chairperson: [David García-Galiano](#), *University of Cordoba*

1. Modeling child growth and cancer in *Drosophila melanogaster*

[María Domínguez](#), *Instituto de Neurociencias de Alicante - CSIC*

2. Exploring mechanisms for the metabolic control of puberty: Novel role of LEAP-2

[Juan Roa](#), *University of Cordoba & Instituto Maimónides de Investigación Biomédica (IMIBIC)*

3. Neuroendocrine control of sexual maturation: nutrient-sensing dependent mechanisms

[Javier Morante](#), *Instituto de Neurociencias de Alicante - CSIC*

4. A role for GnRH neurons in the timing of puberty, pubertal growth and metabolism

[Vincent Prevot](#), *INSERM – University of Lille (France)*

Day 2: January 21st, 2025

Session 4

8:30 – 10:30

Preclinical studies of puberty and its alterations using model species (2)

Chairperson: [Marta Neto](#), *Instituto de Neurociencias de Alicante - CSIC*

1. Translational research in Prader Willi syndrome – Implications for puberty
[Juan M. Castellano](#), *University of Cordoba & IMIBIC*
2. Transgenerational inheritance of childhood obesity: Exploring the role of germline small non-coding RNAs
[Josep C. Jiménez-Chillarón](#), *University of Barcelona and SJD Research Institute*
3. Astrocytes as a conduit between metabolism and puberty
[Julie Chowen](#), *Hospital Infantil Universitario Niño Jesús*
4. Endocrine disruptors and pubertal timing: Transgenerational effects – lessons from preclinical models
[Anne Simone Parent](#), *University of Liege -CIGA Neurosciences (Belgium)*

Break#3

10:30 – 11:00

Session 5

11:00 – 13:00

Epidemiological, molecular and multi-omic analyses for the study of normal and altered puberty

Chairperson: [Marcela Parra-Vargas](#), *SJD Research Institute*

1. Multi-omics approaches for the study of metabolic alterations during puberty development in children with obesity
[Augusto Anguita](#), *University of Granada & ISGLOBAL-Barcelona*
2. Multi-omics integration to dissect complex regulatory pathways – Application to puberty studies?
[Juan Ramón Tejedor](#), *CINN-CSIC & University of Oviedo*
3. Functional genomics and transcriptomic analyses for the study of puberty
[Manuel Tena-Sempere](#), *University of Cordoba & IMIBIC*
4. Secular trends in timing of puberty: environmental and genetic factors
[Anders Juul](#), *Rigshospitalet – Copenhagen (Denmark)*

General Discussion (including SAB members & speakers)

13:00 – 13:30

Break#4

13:30 – 14:30

Discussion (cont.; including SAB members & speakers)

14:30 – 15:30

Final remarks and closing of the meeting

15:30 – 16:00

[Manuel Tena-Sempere](#), Coordinator RETIT-PUB