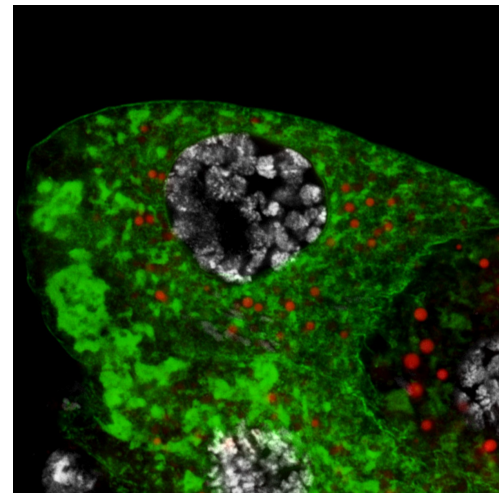
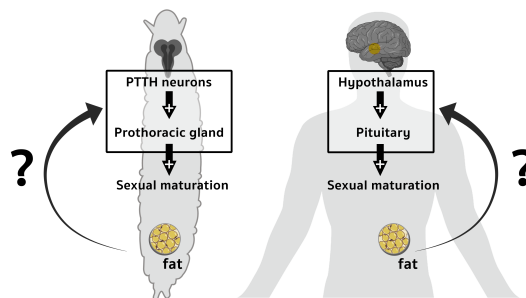
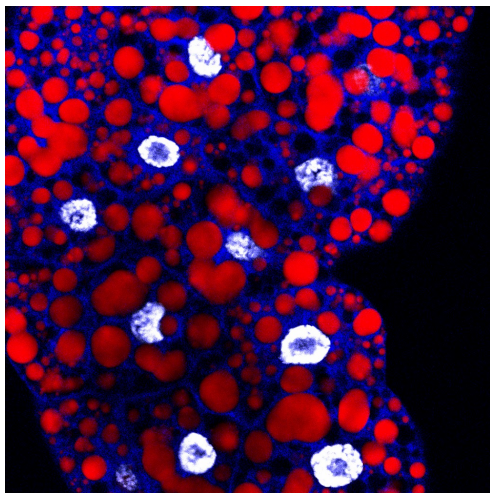


WORKSHOPS
“CURRENT TRENDS IN
BIOMEDICINE”
2022

SEDE ANTONIO MACHADO
BAEZA, SPAIN

FAT SENSING AND
THE BRAIN CONTROL
OF PUBERTY

Baeza, Spain • 24th-26th October 2022





Organized by:

María Domínguez Alicante, Spain.

Javier Morante Alicante, Spain.

Manuel Tena-Sempere Córdoba, Spain.

Sponsor:

*Centro de Investigación Biomédica en Red
Fisiopatología de la Obesidad y Nutrición*

SCOPE

Puberty is a key maturational event in the lifespan of any individual, controlled by highly conserved, sophisticated brain circuits. Puberty onset seems to be occurring earlier worldwide. Earlier puberty can increase the risk of some cancers, diabetes, cardiovascular diseases, eating disorders, alcohol and drug abuse.

Obesity can be associated also with earlier puberty onset, especially in girls. Although poorly understood, the link between body weight, overweight, and pubertal timing seems to be multi-fold. Environmental endocrine disruptors through epigenetic alterations in the reproductive



endocrine systems have been shown to increase risk of obesity and to impact on pubertal timing and fertility. Body weight (fatness or fat content) is a major cue for pubertal timing, as epitomized by the absence or delayed puberty in children with very low body weight such as anorexia or elite gymnasts. However, it remains an open question how the neuroendocrine axis controls and adjusts pubertal timing in response to metabolic cues.

The overall goal of this workshop is to provide the most incisive and up-to-date overview of the current research in the fields of organismal growth, food intake control, metabolism, and puberty, with a particular focus on the mechanisms whereby metabolic signals (specially those originating from fat, as major form of energy storage) influence and shape pubertal maturation. To do so, this workshop will bring together a unique combination of fifteen **internationally recognized research leaders**, with complementary expertise in these related fields.

FORMAT OF THE WORKSHOP

The workshop will bring together a maximum of 15 speakers and 35 participants, to form a group of around 50 people. The scientific programme will start in the morning of Monday, October 24th, and will end around noon on Wednesday, October 26th. Ample time for informal discussion will be reserved. Participants will be invited to present a poster.

VENUE OF THE WORKSHOP

The workshop will be held in Baeza, at the “Sede Antonio Machado”, a XVII century building turned into a Conference Centre of the Universidad Internacional de Andalucía (UNIA). This Seat includes a residence, where participants will be accommodated. Baeza is a World Historic Heritage town, renowned for its Renaissance and Gothic buildings.



SPEAKERS

Jesús Argente

Hospital Infantil Universitario Niño Jesús, Department of Endocrinology, Instituto de Investigación La Princesa, Universidad Autónoma de Madrid, Department of Pediatrics / CIBER de Fisiopatología de la Obesidad y Nutrición (CIBEROBN), Instituto de Salud Carlos III, IMDEA Food Institute, CEIUAM+CSIC. Madrid, Spain.

Alexander Bartelt

Institute for Cardiovascular Prevention, Ludwig-Maximilians-University Munich. Munich, Germany.

María Domínguez

Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas-Universidad Miguel Hernández (CSIC-UMH). Sant Joan d'Alacant (Alicante), Spain.

Brice Emanuelli

Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen. Copenhagen, Denmark.

I. Sadaf Farooqi

Wellcome-MRC Institute of Metabolic Science and NIHR Biomedical Research Centre, University of Cambridge. Cambridge, UK.

Jeffrey M. Friedman

Laboratory of Molecular Genetics, Howard Hughes Medical Institute, The Rockefeller University. New York, NY, USA.



- Heinrich Jasper** Paul F. Glenn Center for Biology of Aging Research, Buck Institute for Research on Aging. Novato / Immunology Discovery, Genentech, Inc. South San Francisco; CA, USA.
- Ursula B. Kaiser** Harvard Medical School / Division of Endocrinology, Diabetes and Hypertension, Department of Medicine, Brigham and Women's Hospital. Boston, MA, USA.
- Robin W. Klemm** Department of Physiology, Anatomy and Genetics, University of Oxford. Oxford, UK.
- Alejandro Lomniczi** Division of Neuroscience, Oregon National Primate Research Center, Oregon Health and Science University (OHSU). Beaverton, OR, USA.
- Javier Morante** Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas-Universidad Miguel Hernández (CSIC-UMH). Sant Joan d'Alacant (Alicante), Spain.
- Michael B. O'Connor** Department of Genetics, Cell Biology and Development, University of Minnesota. Minneapolis, MN, USA.
- Ken K. Ong** MRC Epidemiology Unit, Institute of Metabolic Science / Department of Paediatrics; University of Cambridge. Cambridge, UK.
- Stephen O'Rahilly** Wellcome-MRC Institute of Metabolic Science, University of Cambridge. Cambridge, UK.



Manuel Tena-Sempere Maimonides Institute of Biomedical Research of Córdoba (IMIBIC) / Department of Cell Biology, Physiology and Immunology, University of Córdoba / University Hospital Reina Sofía. Córdoba, Spain.

DEADLINE: 2nd SEPTEMBER 2022

MORE APPLICATIONS WILL BE ACCEPTED IN CHRONOLOGICAL ORDER UNTIL COMPLETING THE WORKSHOP

MORE INFORMATION AND APPLICATION:

<http://www.unia.es/biomedicine>

workshops.biomed@unia.es

**Universidad Internacional de Andalucía
Sede Antonio Machado
Palacio de Jabalquinto
Plaza de Santa Cruz, s/n. 23440 Baeza (Jaén), Spain
Tel: +34 953 74 27 75. Fax: +34 953 74 29 75. E-mail: baeza@unia.es**

