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Universidad Internacional de Andalucía

Epigenetic Regulation of Acquired Behaviors in Health and Disease.

International University of Andalucía

Sede Antonio Machado of Baeza (Jaén)

DATE: September 29th - October 1st, 2026

Organizers:

Angel Barco, CSIC Research Professor, Instituto de Neurociencias CSIC-UMH, Sant Joan d'Alacant, Alicante, Spain.

Li Huei Tsai, Director of the Picower Institute for Learning and Memory and MIT Picower Professor, Cambridge, MA. USA.

MEETING PROGRAM

Monday, September 28th

18.00-20.00: Registration

20.30: Dinner

Tuesday, September 29th

8.00-8.45: Breakfast

9.00-9.10: Opening remarks

Session I: Epigenetic regulation of activity-driven gene expression in neuronal cells.

- **9.10-9.45: Hongjun Song**, University of Pennsylvania, USA.
  Dynamic chromatin interaction induced by neuronal activity and behavior.
- **9.45-10.20: Angel Barco**, IN UMH-CSIC, Spain.
  Activity-driven chromatin changes in hippocampal neurons.

- **10.20-10.35:** Short talk selected from abstract.
- **10.35-10.50:** Short talk selected from abstract.

10.50-11.20: Coffee break

Session II: Transcriptional and epigenetic control of memory formation

- **11.20-11.55: Priya Rajasethupathy**, Rockefeller University, USA.
  Memory across time scales.

- **11.55-12.30: Ana M. Oliveira**, Central Institute of Mental Health, Mannheim, Germany.
  DNA methylation regulates the stability of memory engrams.

- **12.30-13.05: Taro Kitazawa**, Aarhus University, Denmark.
  Whole-genome single-cell multimodal history tracing reveals neuronal plasticity.

13.15: Lunch

16.00-18.00: Poster session

Session III: Epigenetic mechanisms in cognitive development

- **18.00-18.35: Nael Nadif Kasri**, Radboud University Medical Centre, The Netherlands.
  Chromatin-Based Regulation of Network Plasticity in Neurodevelopmental Disorders.

- **18.35-19.10: Aleksandra Pękowska**, Nencki Institute for Experimental Biomedicine, Poland.
  Shaping chromatin domain three-dimensional architecture in cell differentiation.

- **19.10-19.25:** Short talk selected from abstracts
- **19.25-19.40:** Short talk selected from abstracts

20:00h Guided tour to Baeza

21:00h Dinner

Wednesday, September 30th

8.00-8.45: Breakfast

Session IV: Epigenetic mechanisms in neurodegenerative disorders

- **9.00-9.35: Li Huei Tsai**, Picower Institute for Learning and Memory, USA.
  The Many Paths to Memory Loss: How Age, Sex, and Genetics interact with Alzheimer's Disease.

- **9.35-10.10: Sara Marzi**, King's College London, UK.
  Epigenetic regulation of glial cells in Alzheimer's disease.

- **10.10-11.45: Anne-Laurence Boutillier**, UDS/CNRS, Strasbourg, France.
  Astrocyte epigenetic reprogramming by APOE4 increases hipocampal vulnerability in Lewy body dementia.

- **10.45-11.00:** Short talk selected from abstracts

11.00-11.30: Coffee break

Session V: Epigenetic mechanisms in aging

- **11.30-12.05: Marija Kundakovic**, Fordham University, NY, USA.
  Molecular and cellular characterization of the human brain across menopausal transition.

- **12.05-12.40: Shelley Berger**, University of Pennsylvania, USA.
  Metabolic-epigenetic pathways in brain aging and neurodegeneration.

- **12.40-13.15: José V. Sánchez-Mut**, Instituto de Neurociencias (CSIC-UMH), San Juan de Alicante, Alicante (Spain).
  Neuronal coupling of CG and non-CG DNA methylation is an evolutionarily conserved mechanism linking aging, development, and synaptic function.

13.15: Lunch

15.00-17.00: Poster session

18.00-20.00: Guided tour of Baeza

20.30: Dinner

Thursday, October 1st

8.00-8.45: Breakfast

Session VI: Epigenetic mechanisms in psychiatric disorders

- **9.00-9.15:** Short talk selected from abstracts
- **9.15-9.30:** Short talk selected from abstracts
- **9.30-10.05: Tomohisa Toda**, Medizinische Institute für Physik Friedrich-Alexander Universität Erlangen-Nürnberg, Germany.
  Long-lived molecules in neural plasticity and brain aging.

- **10.05-10.40: André Fischer**, University Göttingen, Göttingen, Germany.
  RNA-dependent regulation of epigenetic processes: Expanding the druggable space in neuropsychiatric disorders.

10.40-11.30: Roundtable for general discussion, summing up and prospects.