



Neural Circuits of behavior: from synapses to action

Scuola Normale Superiore, February 5-6, 2026

DAY1: Thursday, February 5 (Talk 20'+5'; Short Talk 10'+5')

MORNING SESSION ([Sala Azzurra](#)).

8.30-9.00 Welcome

9.00-9.25 Diego Scheggia (Università di Milano): *Neural circuits for social decision-making*

9.25-9.50 Francesco Papaleo (IIT, Genova): *Inter-Brain Dynamics in Emotion Discrimination*

9.50-10.05 Coffee break

10.05-10.20 Matteo Caldarelli (SNS, Pisa): *Preclinical Evidence Supporting Thalamic Lesion as a Therapeutic Strategy for Chronic Neuropathic Pain*

10.20-10.45 Gisella Vetere (ESPCI, Paris): *Dissection of a fear memory engram*

10.45-11.00 Lukasz Bijoch (Nencki-EMBL, Warsaw): *DRD1 and DRD2 dopamine-sensitive neurons in the central amygdala respond differently to rewarding and aversive stimuli*

11.00-12.00 KEYNOTE LECTURE Paul Frankland (Sick Kids, Toronto): *The developmental emergence of episodic memory*

12.00-13.00 Poster session 1

13.00-14.00 Lunch (meet the expert)

14.00-15.00 Poster session 2

AFTERNOON SESSION ([Sala degli Stemmi](#)).

15.00-15.25 Michel van den Oever (Vrije Universiteit, Amsterdam): *Threat intensity shapes cortical engram architecture*

15.25-15.50 Nicola Origlia (CNR, IN-Pisa): *A Lateral Entorhinal Cortex Engram for episodic-like memory recall*

15.50-16.05 Giulia Palla (SNS, Pisa): *If you drink, I drink: Social Facilitation of licking behaviour in mice*

16.05-16.30 James Ainge (St. Andrews University): *Finding your way: Grid cell distortion is associated with increased distance estimation error in polarised environments*

16.30-16.45 Coffee break



16.45-17.00 Antonia Gurgone (University of Turin): *Phosphorylating the postsynaptic scaffold: CDKL5 orchestrates Shank1–Homer1bc assembly to shape excitatory synapses*

17.00-17.25 Sebastiano Bariselli (Humanitas Università di Milano): *Alcohol disrupts behavioral and maternal circuit post-partum adaptations*

17.25-17.50 Luca Peruzzotti-Jametti (Cambridge University): *Chronic neuroinflammation and cognitive outcomes*

17.50-18.15 Laura Cancedda (IIT, Genova): *Traumatic Life Experiences During Critical Periods Lead to Diverse Developmental Trajectories*

DAY2: Friday, February 6 (Talk 20'+5'; Short Talk 10'+5')

MORNING SESSION ([Sala degli Stemmi](#)).

9.00-9.25 Manuel Mameli (Université de Lausanne): *Spatiotemporal signatures of depression*

9.25-9.50 Serena Bovetti (Università di Torino): *Multisensory Integration of Social Cues in the ventromedial Prefrontal Cortex*

9.50-10.15 Bianca Silva (IPMC-CNRS, Nice): *Whole-brain mapping of fear memory systems*

10.15-10.30 Coffee Break

10.30-11.30 **KEYNOTE LECTURE** Jeremy Miller (Allen Brain Institute, Seattle): *Investigating neural circuits using Allen Institute resources*

11.30-11.55 Stefano Guglielmo (SNS, Pisa): *Brain-wide mapping of episodic-like memory*

11.55-12.20 Valentino Totaro (SNS, Pisa): *Brain-Wide Organization and Regulation of Perineuronal Nets*

12.20-12.45 Ludovico Silvestri (Università di Firenze): *Brain-wide circuits analysis with immediate early genes: the quest for knowledge in an ocean of data*

CLOSING REMARKS