

Cholinergic tone: where from, what for?

Physiological modes of cholinergic signaling

05 | 19th & 20th | 2014

Location:
Collège Doctoral européen
46 Boulevard de la Victoire
Strasbourg

PROGRAM

Monday May 19th

- 09.30 - 09.50 Registration and welcome Coffee
09.50 - 10.00 Welcome Address
- SESSION 1 CHOLINERGIC SYNAPSES**
- 10.00 - 10.30 **Philippe Ascher**, Paris, France
High sensitivity and low sensitivity nicotinic receptors at synapses
- 10.30 - 11.00 **Michael Beierlein**, Houston, Texas, US
Cholinergic synaptic signaling in the thalamic reticular nucleus
- 11.00 - 11.30 **Véronique Bernard**, Paris, France
Subcellular compartmentalization and intraneuronal trafficking of muscarinic receptors
- 11.30 - 14.30 Lunch break & poster session
- SESSION 2 CHOLINERGIC NEURONS: FIRING AND RELEASE MODES**
- 14.30 - 15.00 **Jan Michael Schulz**, Basel, Switzerland
Exciting silences: sensory control of cholinergic signaling in the striatum
- 15.00 - 15.30 **Martin Sarter**, Ann Arbor, Michigan, US
Deterministic versus neuromodulatory, phasic versus tonic functions of forebrain cholinergic systems
- 15.30 - 16.00 **Debate 1:**
What is the physiological release mode of acetylcholine?

Tuesday May 20th

- SESSION 3 NICOTINIC RECEPTORS: ACTIVATION BY ENDOGENOUS ACH, MODULATION BY NICOTINE**
- 09.30 - 10.00 **Huib Mansvelder**, Amsterdam, Netherland
Cholinergic control of prefrontal cortical circuits: consequences for plasticity and behavior
- 10.00 - 10.30 **Jean-Marie Tournier**, Reims, France
Nicotinic receptors in the airway epithelium
- 10.30 - 11.00 Coffee break
- 11.00 - 11.30 **Uwe Maskos**, Paris, France
Acetylcholine as a master modulator of the dopaminergic system
- 11.30 - 12.00 **Wolfgang Kummer**, Giessen, Germany
Pre-neuronal acetylcholine: nicotinic signaling from epithelia to sensory neurons
- 12.00 - 12.30 **Debate 2:**
Can alpha 7 be involved in endogenous signaling?
- 12.30 - 14.00 Lunch break
- SESSION 4 CONTROLLING ACH LEVELS**
- 14.00 - 14.30 **Eric Krejci**, Paris, France
Cholinesterases are organized in molecular machines specialized to destroy acetylcholine
- 14.30 - 15.00 **Marco Prado**, London, Ontario, Canada
Regulation of cholinergic activity, behavior and transcriptional activity by the vesicular acetylcholine transporter
- 15.00 - 15.30 Coffee break
- 15.30 - 16.00 **Jochen Klein**, Frankfurt, Germany
Do clinically used AChE inhibitors actually increase ACh levels in the brain ?
- 16.00 - 16.30 **Debate 3:**
Does the extracellular concentration of ACh actually matter?

Organisateur: Matilde Cordero-Erausquin

Registration and more info on www.neurex.org or contact: Pascale.Piguet@unibas.ch