

DAY 1 - 9.27.19 (2:00-9:30 pm)

2:00 pm Registration opens

5:00-5:15 pm Opening remarks by members of the Organizing Committee

5:15-6:00 pm Keynote Lecture #1:

Grando, Sergei (USA) *"Non-neuronal acetylcholine: a historical overview"* (35 min talk + 10 min discussion)

6:00-6:45 pm Poster session

7:30-9:30 pm Welcome reception

DAY 2 - 9.28.19 (7:00 am-9:30 pm)

Breakfast 7:00-8:00 am

Session #1: Connection of NNACH to Inflammation - 8:00 am-12:00 pm

Chairs: William Horsnell, Donald Hoover and Wouter de Jonge

8:00 am-8:50 am Keynote Lecture #2:

Kawashima, Koichiro (Japan) *"Roles of alpha7 nAChRs expressed on antigen presenting cells and CD4+ T cells in regulation of antigen-specific CD4+ T cell differentiation"* (40 min talk + 10 min discussion)

Invited talks (each presentation 15 min + Q&A = 20 min)

8:50-9:10 Radek, Katherine (USA) *"Cholinergic regulation of skin antimicrobial responses in models of injury and infection"*

9:10-9:30 Pavlov, Valentin (USA) *"Neuronal and non-neuronal acetylcholine in relation to the inflammatory reflex"*

9:30-9:50 Horsnell, William (UK) *"Regulation of pulmonary immunity by innate lymphoid cell derived acetylcholine"*

9:50-10:20 Coffee break

10:20-10:40 de Jonge, Wouter (The Netherlands) *"Neuro-immunity in host defense in the gut; neuronal and non-neuronal sources of neurotransmitters"*

10:40-11:00 Hoover, Donald (USA) *"Cholinergic leukocytes in sepsis and at the neuroimmune junction in the spleen"*

11:00-11:20 Wess, Jurgen (USA) *"Drug-mediated augmentation of acetylcholine signaling in pancreatic beta-cells: potential clinical implications"*

11:20-11:30 Richter, Katrin (Germany) *"C-Reactive protein induces metabotropic functions at monocytic nicotinic acetylcholine receptors that control ATP-mediated maturation of interleukin-1 β "*

11:30 am-12:00 pm Group Discussion

Lunch 12-1 pm

Session #2: Connection of NNACH to Cancer and Cellular Pathology - 1-5 pm

Chairs: Michael McIntosh, Jogeshwar Mukherjee and Maria Elena Sales

1:00-1:50 pm Keynote Lecture #3:

Wessler, Ignaz (Germany) *“Cholinergic anti-inflammatory pathways: facts and queries”*
(40 min talk + 10 min discussion)

Invited talks (each presentation 15 min + Q&A = 20 min)

1:50-2:10 Lyukmanova, Ekaterina (Russia) *“Human three-finger proteins in defense from epithelial cancer progression”*

2:10-2:30 Mukherjee, Jogeshwar (USA) *“Nicotinic radioligands for early diagnosis of neurodegeneration and lung cancer”*

2:30-2:50 Sales, Maria Elena (Argentina) *“Metronomic therapy focused on cholinergic receptors to treat cancer. Are nicotinic receptors involved?”*

2:50-3:20 Coffee break

3:20-3:40 Layer, Paul (Germany) *“Cholinergic and possible non-enzymatic actions of cholinesterases in bone development”*

3:40-4:00 McIntosh, Michael (USA) *“Novel peptide antagonists of alpha9 nAChRs and neuropathic pain”*

4:00-4:20 Spindel, Eliot (USA) *“Cholinergic signaling and lung development: Overlapping non-neuronal pathways and regulation”*

4:20-4:30 Damaj, Imad (USA) *“Role of $\alpha 7$ nicotinic acetylcholine receptors in chemotherapy-induced peripheral neuropathy in mice”*

4:30-5:00 pm Group Discussion

DAY 3 - 9.29.19 (7:00 am -12:00 pm)

Breakfast 7:00-8:00 am

Session #3: Molecular aspects of NNACH in Norm and Disease - 8:00 am-12:00 pm

Chairs: Veronika Grau, Marina Skok and Jurgen Wess

8:00-8:50 am Keynote Lecture #4:

Kummer, Wolfgang (Germany) *“Paracrine actions and cotransmitters of acetylcholine in epithelial chemosensory cells”* (40 min talk + 10 min discussion):

Invited talks (each presentation 15 min + Q&A = 20 min)

8:50-9:10 Prado, Marco (Canada) *"The non-neuronal cardiac cholinergic system in health and disease"*

9:10-9:30 Kakinuma, Yoshihiko (Japan) *"Possibility for the cardiac non-neuronal ACh system to modulate extra-cardiac functions"*

9:30-9:50 Marchot, Pascale (France) *"Alpha/beta-hydrolase fold proteins: a structural motif with multiple variations and functions"*

9:50 -10:20 Coffee break

10:20-10:40 Skok, Marina (Ukraine) *"Intracellular nicotinic acetylcholine receptors: the new data and new challenges"*

10:40-11:00 Grau, Veronika (Germany) *"Control of ATP-induced IL-1 β Secretion by canonical and noncanonical nicotinic agonists"*

11:00-11:10 Islas, Leon (Mexico) *"The non-neuronal cholinergic system is upregulated in experimental pulmonary tuberculosis"*

11:10-11:20 Saw, Eng Leng (Japan) *"In-vivo activation of cardiac non-neuronal cholinergic system alleviates diabetes-induced cardiac dysfunction"*

11:20-11:50 am Group Discussion

11:50 am-12:00 pm Presentation of the "Best Poster" award, and closing remarks