

Gordon Research Conference on NOX Family NADPH Oxidases 2018

Site and date

**Les Diablerets Conference Center, Les Diablerets, CH
May 27- June 1, 2018**

Overview of conference

The 2018 Gordon Research Conference on NOX Family NADPH Oxidases featured NOX enzymes as Center of Redox Communication in Health and Disease. In keeping with the theme of Redox Communication the conference program included sessions that covered other ROS sources and their interaction with NOX, as well as systems biology approaches important for understanding intracellular ROS networks and therapeutic classification of ROS-related diseases. A novel type of session covering overviews of past discoveries combined with novel data in areas of controversy and dispute was highly appreciated, in particular by young and out-of-field investigators. Exciting new developments on the structural and drug development front and in emerging research areas were complemented by sessions covering the newest insights into NOX physiology and pathophysiology.

The invited speakers and the overall program were designed to have broad appeal to junior and senior scientists and to stretch the boundaries of NOX biology. A significant number of the presentations (12 out of 44 in total) were chosen from submitted abstracts with particular emphasis placed on encouraging contributions from younger scientists. Two young scientists received full hot topic presentation slots. Four poster sessions, each of 90 minutes duration, were scheduled, and ample opportunities were provided for interactions between scientists in a collegial setting. A copy of the meeting program including details of the sessions, speakers and titles is attached.

The conference was very popular and appeared to be enjoyed by the participants, in terms of scientific content as well as positive atmosphere. The 2018 NOX GRC received very strong post-meeting evaluations. The meeting was attended by 118 researchers, with the vast majority presenting work orally or in poster format. The attendees came from Europe, North America, South America, Asia and Australia. The 2018 NOX GRC was preceded by a Gordon Research Seminar organized and run by two postdoctoral fellows, David Heppner (USA) and Aikaterini Anagnostopoulou (UK), a format which provided unique presentation, networking and career development opportunities for younger scientists. The generous support of SFRR-E provided additional support for the registration fees and travel expenses of two European NADPH Oxidase investigators.