**Report of Gordon Conference on Oxygen Radicals 2018**

**Dates and site: Ventura Beach Marriott, Ventura, Ca**

**4-8th February 2018**

**Brief overview of conference:**

The 2018 Oxygen Radicals Gordon Research Conference highlighted the latest cutting edge research in the field by providing focussed session topics on various aspects of oxygen radicals as effectors of redox chemistry, chemical biology, redox biology, and medicine. Sessions were devoted to the role and chemistry of oxygen radicals in physiology and pathobiology from basic mechanistic studies to imaging, sensing and quantification of oxidants, as well as therapeutic applications. A copy of the meeting program including details of the sessions, speakers and titles is attached

The invited speakers and program were designed to have broad appeal to junior and senior scientists with an interest in chemical biology, oxygen radical reactions and detection, and translational science. The meeting began and ended with keynote lectures from two world experts in the field (Dan Liebler and Helmut Sies).

The conference was extremely popular, appeared to be enjoyed by the participants and was highly regarded based on the large number of applicants and very strong post-meeting evaluations.

115 people attended the meeting with the vast majority of the attendees presenting work in either oral (38 talks) or poster (60 poster) formats. Thus ~ 85% presented in one format or other. The attendees came from 21 different countries, with all continents (baring Antarctica) represented, including North America (USA, Canada), South America (Chile, Uruguay), Africa (Egypt), Europe (UK, Germany, Denmark, Sweden, Finland, Italy, Poland, Israel, France), Asia (Japan, Korea, China, India, Hong Kong) and Australasia (Australia, New Zealand).

A significant number of the presentations (10 out of 38 in total, ~25%) were chosen from submitted abstracts with particular emphasis placed on encouraging contributions from younger scientists. Four poster sessions, each of two hours duration, were scheduled, and the program was organized so that ample opportunities were available for discussions and interactions between senior and junior scientists and trainees in a collegial setting. The meeting also featured a “power hour” session to allow discussions of the problems faced by female / minority scientists.

The 2018 Oxygen Radicals GRC was preceded by a 2-day GRS meeting organized and run by two trainees – Klaus Koren (Denmark) and Shireen Attaran (USA) to further enhance the quality of cutting-edge science presented and discussed at the meeting, as well as providing unique networking and career development opportunities for younger scientists.