Meeting Report of the 16th International Conference on Reactive Oxygen and Nitrogen Species in Plants 29 – 31 May 2024

The 16th International Plant Oxygen Group Meeting took place from Wednesday, 29th of May, to Friday, 31th of June, in the Antibes Juan-les-Pins Convention Centre, Antibes, France. The meeting was a great success, with 116 participants from many countries around the world, including Canada, the United States, England, Germany, Spain, Italy, India, Japan, Belgium, Switzerland, Poland, Australia, China, Portugal, Austria, Finland, Hungary, Scotland, Turkey and France. 109 abstracts were submitted and the scientific committee selected 36 for short talks. The program was very diverse with five sessions: Redox Biology, Tools for Redox Biology, ROS/RNS in Plant Growth and Development, ROS/RNS in Plant Response to Biotic Environment and ROS/RNS in Plant Response to Abiotic Environment. The program consisted in 2 plenary lectures, 5 keynotes lectures, 36 short talks, 66 posters and a social program (welcome cocktail and conference dinner in the villa Eilenroc).

The conference started Wednesday afternoon with a minute of silence in memory of two POG presidents, Jaakko Kangasjärvi and Gary Loake, who left us recently. The first plenary lecture by Laurent Counillon (CNRS LP2M, Université Côte d'Azur, Nice, France) who provided an overview of the regulation of mammalian Na^+/H^+ exchange by superoxide and the consequences on cell shape and motility. The second plenary lecture was given by Gloria Muday (Wake Forest University, Winston Salem - NC, USA) who gave an excellent presentation on how flavonol antioxidants modulate reactive oxygen species signaling to control development and modulate stress responses. Over the next 2 days, the importance of the ROS and RNS was highlighted in the five sessions covering the multiples aspects of RNS/ROS in plants.

The meeting was very successful and we received a positive feedback from numerous participants. The next International POG Meeting will take place in Granada, Spain, in 2026.

Finally, on behalf of the entire organizing committee, I thank the SFRR-E for generously providing £1800 to support the attendance of young researchers. The SFRR-E travel grant allowed the registration of 6 students to the POG 2024 meeting (Sousa Bruno (FCUP, GreenUPorto, Porto, Portugal), Matheus Pedro (GreenUporto, Sustainable Agrifood Production Research Center, Porto, Portugal), Kant Kamal (HUN-REN Szeged Biological Research Center, Szeged, Hungary), Gupta Neha (Banaras Hindu University, Varanasi, India), Calleja Aitziber (Public University of Navarre, Pamplona, Spain) and Rubio Jorge (Institute for Agribiotechnology Research (CIALE), University of Salamanca, Salamanca,

Spain). The support of the SFRR-E was mentioned on the congress web as well as in the congress planning.