

Preface

The 43rd Annual Meeting of the International Society on Oxygen Transport to Tissue (ISOTT 2015), hosted by Britton Chance Center for Biomedical Photonics (BC CBMP), Wuhan National Laboratory for Optoelectronics (WNLO), Huazhong University of Science and Technology (HUST), was held in Wuhan, China, on July 11–16th, 2015. This volume contains the papers submitted, peer-reviewed (at least by two reviewers), and accepted from presentations at that meeting.

During the 43 years of ISOTT history, this was the first conference ever held in China. We have gone through an 8-year journey to this milestone. As Dr. Duane Bruley (ISOTT historian) discussed with Dr. Li in 2007 about organizing of an ISOTT conference in China, this proposal immediately gained strong support from Dr. Britton Chance. Brit then wrote to Dr. Luo in HUST who was a former postdoc fellow in the Chance lab in the 1990s and now an established senior research leader in China. For the sake of Brit, our beloved mentor, Dr. Luo kindly accepted the invitation for a couple of plenary lectures in ISOTT and started to attend and send participants to ISOTT since 2012. After a few years of planning and development and with strong support from both local HUST and ISOTT communities, we organized the 2015 meeting successfully in Wuhan, finally fulfilling our promises to Brit and Duane.

The ISOTT 2015 conference brought together 109 participants (33 from Mainland China and 76 from other regions and countries) in a unique cross-disciplinary forum for discussions on a broad range of topics related to oxygen transport and metabolism in health and disease. In total there were 103 presentations (4 keynote and 22 invited lectures, 30 oral presentations, and 47 poster presentations). The meeting featured “Britton Chance Memorial” sessions with a number of diversified and interesting research presentations and an invited talk by Duane entitled “ISOTT from the beginning: a tribute to our deceased members (icons),” reflecting on the ISOTT’s long history of 43 years and people who have made major contributions to the society especially Brit. In total 16 meeting sessions covered various research topics including Multi-Modal Imaging/Spectroscopy and Instrumentation; Cancer Metabolism; Cellular Hypoxia and Mitochondrial Function; Brain Oxygenation and Function; Other Organ Function and Metabolism;

Oxygen Transport in Sports, Diseases and Clinical Care; Acupuncture, Meridians, and Primo Vascular System; and EPR, MRS and MRI. Extensive discussion time was allocated to each oral presentation to enhance and facilitate full scientific interaction. Each poster presenter was given 2 min to highlight orally the key points in the posters to the general audience. Interested participants were also invited to visit Wuhan National Laboratory for Optoelectronics and Britton Chance Center for Biomedical Photonics.

In addition to the academic programs, many participants expressed their satisfaction with and enjoyment of the social events and the hospitality of local hosts and the nice environment of the conference site PUYU hotel. The social events included the welcome reception hosted in the PUYU hotel, the farm food dinner in a restaurant nearby the East Lake served with the unique Wuhan style food, the Yangtze River cruise enjoying a spectacular night views of the city, and the exercise program of Taiji Walk and Ba Duan Jin instructed in the mornings throughout the conference.

We would like to acknowledge earnestly the great work done by our conference coordinators Dr. Hua Shi and Ms. Weiwei Dong plus a number of staff members and volunteers that have made the conference smooth and successful. Deep appreciation also goes to the Members of Local Organizing Committee, Scientific Committee, ISOTT Executive Board, and all the session chairs, speakers, and presenters for their participation, support, advice, and help. Together we have made the first ISOTT conference in China an outstanding and memorable experience. Great thanks also go to all the editors and reviewers that make the publication of this ISOTT 2015 proceeding possible.

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