

Preface

This volume consists of papers submitted, reviewed, and accepted from presentations at the 41st Annual Meeting of ISOTT that was held on June 22–26, 2013 at Dartmouth College in Hanover, NH, USA. 210 scientists from 14 countries attended the meeting. A major focus of the meeting was to discuss the clinical aspects of oxygen and methods related to its measurement, and the presentation format was planned to facilitate and promote discussions, with extensive discussion time allocated for oral presentations. There were more than 180 lectures on a variety of topics. The conference featured 2 days with a clinical focus with presentations of clinical relevance related to tissue oxygenation in cancer, cerebral, cardiovascular, muscular, and renal pathophysiology and treatment.

There were several special features at this meeting, including an emphasis on the “Wisdom of ISOTT” in which special invitations and speaking opportunities were extended to members who have had a prominent role in the development of the society and the field. The contributions from these members are featured in the first ten articles in this volume. Another special feature was a conference on the application of Electron Paramagnetic Resonance (EPR) with an emphasis on oxygen measurements in both preclinical and clinical settings and which was held in concert with the ISOTT meeting. Finally, a special feature was a tribute to David Maguire, a former President of ISOTT, who prematurely passed away prior to the meeting.

The scientific communications were enhanced by a schedule that included brief oral presentations of the highlights of every poster presentation, participation by young scholars in co-chairing most sessions, and a social program that kept the participants together for all meals while enjoying the traditional ample drink, food, and entertainment each evening that is a hallmark of the ISOTT conferences.

All articles in this volume were derived from presentations at ISOTT-2013 and were subject to rigorous review by a minimum of two knowledgeable referees and the editors. Virtually all articles required at least one revision and several of the submissions were not able to meet the criteria for inclusion. As a result the articles in this volume should have a high degree of scientific validity.

This book is dedicated to the senior members of ISOTT who continue to guide us, including those who have passed away but whose scientific contributions continue to illuminate and lead us. In particular we dedicate this book to David Maguire, whose last publication is the first article in this book.

Lebanon, NH, USA

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