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# ***Ophthalmic Technologies XXII***

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**Per G. Söderberg**  
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*Editors*

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## Introduction

The papers contained in this volume were presented at the twenty-second conference on Ophthalmic Technologies, held from January 21 to 22, 2012, at the Moscone Center in San Francisco, California as a part of the SPIE Photonics West BIOS Meeting.

A total of 52 papers and 16 posters were presented by scientists, clinicians, and engineers from academia, private clinics, and industry representing many different countries covering 5 different continents. Topics included advances in adaptive optics for retinal imaging, new technologies and applications of optical coherence tomography, and a novel laser for corneal surgery.

The twelfth Pascal Rol Award was presented to Dr. Clemens Alt and his colleagues from Harvard University, CA for their excellent paper on "In vivo quantification of microglia dynamics with a scanning laser ophthalmoscope in a mouse model of focal laser injury" (8209-06). Established in memory of Dr. Pascal O. Rol, former chair and co-founder of the Ophthalmic Technologies conference, the award is in recognition of the best manuscript and presentation. The outstanding finalists were Drs. Choi (8209-03), Kocaoglu (8209-53), and Potsaid (8209-38).

The conference hosted its seventh presentation on the topic of unmet technological needs in a clinical area. Prof. Robin Ali, from the Institute of Ophthalmology at the University College in London, UK, gave an outstanding overview of the challenges and technological needs in the field of molecular therapy of retinal diseases.

We are very grateful to the Brien Holden Vision Institute in Sydney, Australia, for sponsoring the 2012 Pascal Rol award and keynote lecture through the Pascal Rol Foundation.

We thank the Program Committee members, session chairs, speakers and participants, as well as the SPIE staff for their support and dedication in making this conference a success.

We extend an invitation for the Ophthalmic Technologies XXIII conference, which is scheduled for Saturday February 2 and Sunday February 3, 2013 in San Francisco, CA.

**Fabrice Manns  
Per Söderberg  
Arthur Ho**

