Novel Biophotonic Techniques and Applications

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Editors

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Contents

vii Conference Committee
ix Introduction

NOVEL IMAGING APPROACHES

8090 02 An endoscopic structured lighting probe using spectral encoding
[8090-01]
N. T. Clancy, D. Stoyanov, G.-Z. Yang, D. S. Elson, Imperial College London (United Kingdom)

8090 04 Cell death detection and ionic homeostasis monitoring with digital holographic microscopy
[8090-03]
N. Pavillon, Ecole Polytechnique Fédérale de Lausanne (Switzerland); J. Kühn, Ecole Polytechnique Fédérale de Lausanne (Switzerland) and CHUV (Switzerland); P. Jourdain, C. Depeursinge, Ecole Polytechnique Fédérale de Lausanne (Switzerland); P. J. Magistretti, P. Marquet, CHUV (Switzerland) and Ecole Polytechnique Fédérale de Lausanne (Switzerland)

8090 05 Holographic microscopy for the three-dimensional exploration of light scattering from gold nanomarkers in biological media
[8090-04]
F. Joud, F. Verpillat, P. Desbiolles, Lab. Kastler Brossel, Univ. Pierre et Marie Curie (France); M. Abboud, Univ. Saint-Joseph (Lebanon); M. Gross, Lab. Kastler Brossel, Univ. Pierre et Marie Curie (France) and Lab. Charles Coulomb, Univ. Montpellier II (France)

8090 06 Fourier phase contrast multimodal optical microscopy for real time display of phase and fluorescence at the same time
[8090-05]
C. S. Yelleswarapu, B. Das, A. Veraksa, D. V. G. L. N. Rao, Univ. of Massachusetts Boston (United States)

8090 07 Functional imaging of tumor vascular network in small animal models
[8090-06]
V. Kalchenko, N. Madar-Balakirski, Y. Kuznetsov, Weizmann Institute of Science (Israel); I. Meglinski, Univ. of Otago (New Zealand); A. Harmelin, Weizmann Institute of Science (Israel)

EMERGING TECHNOLOGIES: MODELS AND PLATFORMS I

8090 0A Lung cancer targeted Raman active phospholipid gold nanoparticles for ultrasensitive and specific molecular imaging and detection
[8090-10]
N. C. M. Tam, B. M. T. Scott, B. C. Wilson, G. Zheng, Univ. of Toronto (Canada) and Ontario Cancer Institute, University Health Network (Canada)
Development of Au/Ag substrate with alternating nanosphere array for SERS-based biosensing [8090-11]
C. Y. Fu, National Univ. of Ireland Galway (Ireland) and Singapore Bioimaging Consortium (Singapore); U. S. Dinish, Singapore Bioimaging Consortium (Singapore); K. W. Kho, National Univ. of Ireland Galway (Ireland); D. G. Wenda, Singapore Bioimaging Consortium (Singapore); M. Olivo, National Univ. of Ireland, Galway (Ireland), Singapore Bioimaging Consortium (Singapore), Royal College of Surgeons Ireland (Ireland), and National Univ. of Singapore (Singapore)

Investigation of protein aggregation dynamics with a Bloch surface wave sensor [8090-12]
V. Paeder, S. Santi, V. Musi, H. P. Herzig, Ecole Polytechnique Fédérale de Lausanne (Switzerland)

EMERGING TECHNOLOGIES: MODELS AND PLATFORMS II

Polymer waveguide platform for highly integrated biophotonics [8090-13]
H. Keshmiri, B. Agnarsson, K. Leósson, Univ. of Iceland (Iceland)

Mesh-based Monte Carlo code for fluorescence modeling in complex tissues with irregular boundaries [8090-14]
R. H. Wilson, L.-C. Chen, W. Lloyd, S. Kuo, C. Marcelo, S. E. Feinberg, M-A. Mycek, Univ. of Michigan (United States)

Fabrication and characterization of a real-time optical fiber dosimeter probe [8090-16]
A. Croteau, S. Caron, Institut National d'Optique (Canada); A. Rink, D. Jaffray, Princess Margaret Hospital, Univ. of Toronto (Canada); O. Mermut, Institut National d'Optique (Canada)

Comparison of Monte Carlo simulations of polarized light propagation in turbid media with exact Maxwell solutions [8090-17]
A. Hohmann, F. Voit, J. Schäfer, A. Kienle, Institut für Lasertechnologien in der Medizin und Meßtechnik (Germany)

PHOTOACOUSTIC TECHNIQUES

Photoacoustic section imaging with an integrating cylindrical detector [8090-20]
S. Gratt, K. Passler, R. Nuster, G. Pallauf, Karl-Franzens-Univ. Graz (Austria)

Enlarged acceptance angle of a finite size detector in photoacoustic imaging using acoustic lenses [8090-21]
W. Xia, D. Piras, M. Heijblom, J. C. G. Van Hespen, Univ. of Twente (Netherlands); S. Van Veldhoven, C. Prins, Oldeift Ultrasound B.V., (Netherlands); W. Steenbergen, Univ. of Twente (Netherlands); T. G. van Leeuwen, Univ. of Twente (Netherlands) and Univ. of Amsterdam (Netherlands); S. Manohar, Univ. of Twente (Netherlands)
### POSTER SESSION

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8090 OR</td>
<td>Classification of the micro and nanoparticles and biological agents by neural network analysis of the parameters of optical resonance of whispering gallery mode in dielectric microspheres [8090-24]</td>
<td>V. A. Saetchnikov, E. A. Tcherniavskaia, Belarusian State Univ. (Belarus); G. Schweiger, A. Ostendorf, Ruhr-Univ. Bochum (Germany)</td>
</tr>
<tr>
<td>8090 OS</td>
<td>Optical nanotechnology enables rapid label-free diagnostics for cancer biomarker screening [8090-25]</td>
<td>D. Wawro, S. Zimmerman, Resonant Sensors Inc. (United States); R. Magnusson, Resonant Sensors Inc. (United States) and The Univ. of Texas at Arlington (United States); P. Koulén, Univ. of Missouri-Kansas City (United States)</td>
</tr>
<tr>
<td>8090 OT</td>
<td>NIR tracking assists sports medicine in junior basketball training [8090-26]</td>
<td>R. Paeglis, K. Bluss, Biomechanics and Physical Research Institute (Latvia); A. Rudzitis, A. Spunde, Latvian Academy of Sports Education (Latvia); T. Brice, Univ. of Latvia (Latvia); E. Niliss, Biomechanics and Physical Research Institute (Latvia)</td>
</tr>
<tr>
<td>8090 OU</td>
<td>Time-resolved diffuse optical spectroscopy up to 1700 nm using a time-gated InGaAs/InP single-photon avalanche diode [8090-27]</td>
<td>I. Bargigia, A. Tosi, A. Bahgat Shehata, Politecnico di Milano (Italy); A. Della Frera, Micro Photon Devices S.r.l. (Italy); A. Farina, A. Bassi, P. Taroni, A. Dalla Mora, Politecnico di Milano (Italy); F. Zappa, Politecnico di Milano (Italy) and Micro Photon Devices S.r.l. (Italy); A. Pifferi, Politecnico di Milano (Italy) and Istituto di Fotonica e Nanotecnologie (Italy)</td>
</tr>
<tr>
<td>8090 OV</td>
<td>Upconversion luminophores as a novel tool for deep tissue imaging [8090-28]</td>
<td>A. P. Popov, A. V. Bykov, Univ. of Oulu (Finland) and Lomonosov Moscow State Univ. (Russian Federation); V. I. Sokolov, Y. V. Lysak, Institute on Laser and Information Technologies (Russian Federation); A. Nadort, Macquarie Univ. (Australia) and Academic Medical Ctr. (Netherlands); A. V. Priezzhev, Lomonosov Moscow State Univ. (Russian Federation); R. Myllylä, Univ. of Oulu (Finland); A. V. Zvyagin, Macquarie Univ. (Australia)</td>
</tr>
<tr>
<td>8090 OW</td>
<td>A photoplethysmography device for multipurpose blood circulatory system assessment [8090-29]</td>
<td>E. Kviesis-Kipge, J. Zaharans, O. Rubenis, A. Grabovskis, Univ. of Latvia (Latvia)</td>
</tr>
<tr>
<td>8090 OY</td>
<td>Instrumentation and method for measuring NIR light absorbed in tissue during MR imaging in medical NIRS measurements [8090-31]</td>
<td>T. S. Myllylä, H. S. Sorvoja, Univ. of Oulu (Finland); J. Nikkinen, O. Tervonen, V. Kiviniemi, Oulu Univ. Hospital (Finland); R. A. Myllylä, Univ. of Oulu (Finland)</td>
</tr>
<tr>
<td>8090 11</td>
<td>Operating point stabilization of fiber-based line detectors for photoacoustic imaging [8090-34]</td>
<td>K. Felbermayer, H. Grün, T. Berer, P. Burgholzer, RECENDT GmbH (Austria)</td>
</tr>
</tbody>
</table>
8090 12  **Annular piezoelectric ring array for photoacoustic imaging** [8090-35]
K. Passler, R. Nuster, S. Gratt, Karl-Franzens-Univ. Graz (Austria); P. Burgholzer, RECENDT, GmbH (Austria); G. Paltauf, Karl-Franzens-Univ. Graz (Austria)

8090 13  **Time-shifting correction in optoacoustic tomographic imaging for media with non-uniform speed of sound** [8090-36]
X. L. Deán-Ben, V. Ntziachristos, D. Razansky, Technical Univ. of Munich and Helmholtz Ctr. Munich (Germany)

8090 14  **Correction for acoustic attenuation effects in optoacoustic tomographic reconstructions** [8090-37]
X. L. Deán-Ben, D. Razansky, V. Ntziachristos, Technical Univ. of Munich and Helmholtz Ctr. Munich (Germany)

8090 15  **Monte Carlo simulation of light reflection from cosmetic powders on the skin** [8090-39]
T. Okamoto, M. Motoda, Kyushu Institute of Technology (Japan); T. Igarashi, K. Nakao, KAO Corp. (Japan)

8090 16  **Improving neuronavigation through workflow and sound feedback and interactive brainshift correction** [8090-40]

8090 17  **Measurement of the acoustic scatterers distribution within the imaged sample in an optoacoustic tomographic setup** [8090-42]
X. L. Deán-Ben, D. Razansky, V. Ntziachristos, Technical Univ. of Munich and Helmholtz Ctr. Munich (Germany)

8090 18  **Laser speckle contrast vs. depolarization: a solid skin phantom study** [8090-44]
L. Tchvialeva, G. Dhadwal, D. Diao, Vancouver Coastal Health Research Institute (Canada) and Univ. of British Columbia (Canada); H. Lui, Vancouver Coastal Health Research Institute (Canada), Univ. of British Columbia (Canada), and BC Cancer Research Ctr. (Canada); D. I. McLean, Vancouver Coastal Health Research Institute (Canada) and Univ. of British Columbia (Canada); T. K. Lee, Vancouver Coastal Health Research Institute (Canada), Univ. of British Columbia (Canada), BC Cancer Research Ctr. (Canada), and Simon Fraser Univ. (Canada)

8090 19  **Three dimensional tracking of gold nanoparticles using digital holographic microscopy** [8090-49]
F. Verpillat, F. Joud, P. Desbiolles, M. Gross, École Normale Supérieure (France)

**Author Index**
Conference Committee

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Chris Xu, Cornell University (United States)

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1 Novel Imaging Approaches
   I. Alex Vitkin, University of Toronto (Canada)

2 Emerging Technologies: Models and Platforms I
   Seemantini K. Nadkarni, Harvard Medical School (United States)

3 Emerging Technologies: Models and Platforms II
   Arjen Amelink, Erasmus MC (Netherlands)
Photoacoustic Techniques

Henricus J. C. M. Sterenborg, Erasmus MC (Netherlands)

Advanced Biophotonics—Sensing and Imaging: Joint Session with Conference 8091

Irene Georgakoudi, Tufts University (United States)
Kishan Dholakia, University of St. Andrews (United Kingdom)

Poster Session

I. Alex Vitkin, University of Toronto (Canada)
Henricus J. C. M. Sterenborg, Erasmus MC (Netherlands)
Introduction

The European Conference on Biomedical Optics (ECBO), part of World of Photonics Congress / 20th International Congress on Photonics in Europe, took place in Munich, Germany on 22–26 May 2011. Its approximately 500 attendees were treated to five days of talks, posters, technical exhibits, and special events, with ample opportunities for discussing biophotonics science, making personal and scientific connections, and finding out the latest trends in our rapidly evolving interdisciplinary field. The ECBO program was organized into seven thematic sub-conferences, and the chairs of each solicited manuscripts from their respective oral and poster presenters. These were compiled into the 2011 ECBO proceedings volumes, with the one you are currently holding in your hands containing selected manuscripts from the Novel Biophotonic Techniques and Applications (NBTA) sub-conference.

The NBTA presentations were thematically diverse, as indicated by the session titles: Novel Imaging Approaches, Emerging Technologies: Models and Platforms, Photoacoustic Techniques, etc. As you read this volume, you will encounter interesting biophotonics studies using holographic, endoscopic, polarimetric, coherent, spectroscopic, speckle, photoacoustic, and other novel methods for advanced tissue assessment. Work on nanoparticle constructs, intravital microscopies, and light-tissue interaction models were also well represented at NBTA. Such breadth and variety nicely illustrates the diversity of research in this exciting field. We hope that as you read this and the other six proceedings volumes of the EBCO 2011, you will be inspired to (continue to) actively contribute to biophotonics research!

Henricus J. C. M. Sterenborg
I. Alex Vitkin