

Digital Holography and Three-Dimensional Imaging (DH)

Topical Meeting and Tabletop Exhibit Collocated with

[Biomedical Optics \(BIOMED\)](#)

[Laser Applications to Chemical, Security and Environmental Analysis \(LACSEA\)](#)

March 17-19, 2008

[Hilton St. Petersburg Bayfront](#)

St. Petersburg, Florida, USA

[Postdeadline Submissions Deadline](#): February 19, 2008 at 12:00 p.m. EST (17.00 GMT)

[Hotel Reservation Deadline](#): February 12, 2008

[Pre-Registration Deadline](#): February 21, 2008



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[Biomedical Optics \(BIOMED\)](#)

[Digital Holography and Three-Dimensional Imaging \(DH\)](#)

[Laser Applications of Chemical, Security and Environmental Analysis \(LACSEA\)](#)

Dates and Location	Important Deadlines
March 16-20, 2008	Postdeadline Submissions Deadline: February 19, 2008 at 12:00 p.m. EST (17.00 GMT)
Hilton St. Petersburg Bayfront	Hotel Reservation Deadline: February 12, 2008
St. Petersburg, Florida, USA	Pre-Registration Deadline: February 21, 2008

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Topics to be Discussed

BIOMED Topics

- Methods for Diffuse Optical Imaging and Tomography
- Methods for Optical Spectroscopy and Spectroscopic Imaging
- Optical Coherence Tomography
- Optical Microscopy Techniques
- Photonic Biomedical Nanotechnology
- Optics in Neuroscience
- Optics in Diagnostics and Clinical Translation

DH Topics

- Digital holography theory and systems
- Diffractive optics
- Optical data storage
- Phase unwrapping and phase retrieval
- Computer generated holograms
- Spatial light modulators for holography
- Incoherent digital holography
- Holographic optical elements
- 2D and 3D pattern recognition
- Optical correlators
- Three-dimensional imaging and

- Optics in Molecular and Small Animal Imaging
- Optical Therapeutics

LACSEA Topics

- Laser-analytical Systems
- New Optical and Photonic Sources
- Laser-analytical Optics
- Prediction and Theoretical Treatment of UV, VIS, NIR, MIR and THz Spectra
- Application of Laser-analytical Systems to chemical, biophysical and biochemical analysis, homeland security and environmental measurements in industry as well as basic research.

- processing
- Three-dimensional display
- Stereo-matching and stereoscopic cameras
- 2D-3D content conversion
- Shape and deformation measurement
- Polarization analysis
- Holographic imaging and microscopy
- Holographic nanofabrication methods
- Holographic optical micro-manipulation

About Optics and Photonics Congresses

OSA created [Optics and Photonics Congresses](#), clusters of new and established **topical meetings** in order to bring together leaders among communities within optics.

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About DH

The topical meeting on Digital Holography and Three-Dimensional Imaging provides a forum for disseminating the science and technology of holographic interferometry for deformation or contour measurement, 3-D optical remote sensing, 3-D holographic microscopy, 3-D optical image processing and 3-D display, digital holography for life sciences applications.

Digital Holography and Three-Dimensional Imaging (DH) Meeting Topics To Be Considered:

- Digital holography theory and systems
- Diffractive optics
- Optical data storage
- Phase unwrapping and phase retrieval
- Computer generated holograms
- Spatial light modulators for holography
- Incoherent digital holography
- Holographic optical elements
- 2D and 3D pattern recognition
- Optical correlators
- Three-dimensional imaging and processing
- Three-dimensional display
- Stereo-matching and stereoscopic cameras
- 2D-3D content conversion
- Shape and deformation measurement
- Polarization analysis
- Holographic imaging and microscopy
- Holographic nanofabrication methods
- Holographic optical micro-manipulation

Program Committee

Ting-Chung Poon, *Virginia Tech, USA*, **Chair**
ByoungHo Lee, *Seoul National Univ., Korea*, **Co-Chair**

George Barbastathis, *MIT, USA*
Min Gu, *Swinburne Univ. of Technology, Australia*
Sung-Kyu Kim, *Korea Inst. of Science and Technology, Korea*
Wolfgang Osten, *Univ. Stuttgart, Germany*
Joe Rosen, *Ben Gurion Univ. of the Negev, Israel*
Jim Swoger, *Ctr. for Genomic Regulation, Spain*
Frank Wyrowski, *Univ. of Jena, Germany*
Ichirou Yamaguchi, *Gunma Univ., Japan*
Hiroshi Yoshikawa, *Nihon Univ., Japan*

Invited Speakers

DMA1, Coherence Holography and Spatial Frequency Comb for 3-D Coherence Imaging; *Mitsuo Takeda¹, Wei Wang², Zhihui Duan¹, Yoko Miyamoto¹, Joseph Rosen³; ¹Univ. of Electro-Communications, Japan, ²Heriot-Watt Univ., United Kingdom, ³Ben-Gurion Univ. of the Negev, Israel.*

DMA6, Using Partial Coherence and Digital Holography for 3-D Imaging and Profile Extraction; *Zeev Zalevsky¹, Ofer Margalit¹, Emanuel Vexberg¹, Roy Pearl¹, Javier Garcia²; ¹Bar-Ilan Univ., Israel, ²Univ. de València, Spain.*

DMB1, Optical Imaging of Ocean Plankton: A Fantastic Voyage; *Cabell Davis; Woods Hole Oceanographic Inst., USA.*

DMB6, 3-D Fibre-Optical Nonlinear Optical Microscopy Imaging; *Min Gu; Swinburne Univ. of Technology, Australia.*

DMC1, Reconstruction of Three-Dimensional Images of Real Objects by Electronic Holography; *Tomoyuki Mishina, Makoto Okui; Natl. Inst. of Information and Communications Technology, Japan.*

DTuA1, Applications of Integral Photography for Real-Time Imaging; *Fumio Okano; NHK Science and Technical Res. Labs, Japan Broadcasting Corp., Japan.*

DTuA6, Bio/Medical Applications Using High Definition 3-D Stereo Camera and Monitor System; *Nam Kim; Chungbuk Natl. Univ., Republic of Korea.*

DTuB1, Measuring Dynamics and Interactions of Colloidal Particles with Digital Holographic Microscopy; *Ryan McGorty, Jerome Fung, David Kaz, Steven Ahn, Vinothan N. Manoharan; Harvard Univ., USA.*

DTuB6, A Demonstration of Total Internal Reflection Holographic Microscopy for the Study of Cellular Motion; *William M. Ash III, Myung K. Kim; Univ. of South Florida, USA.*

DWA1, Holographic 3-DTV Research within the European 3-DTV Project; *Levent Onural; Bilkent Univ., Turkey.*

DWA6, Current Research and Development Activities for 3-D Applications in Korea; *Seung-Hyun Lee, Ji-Sang Yoo, Dong-Wook Kim; Kwangwoon Univ., Republic of Korea.*

DWB1, Assessment of 3-D Angular Movements of Diffuse Objects Using Holographic Interferometry; *Partha P. Banerjee¹, G. Nehmetallah¹, M. R. Chatterjee¹, S. C. Prahara², N. V. Kukhtarev³; ¹Univ. of Dayton, USA, ²DMS Technologies Inc., USA, ³Alabama A&M Univ., USA.*

Digital Holography and Three-Dimensional Imaging (DH) Abstracts

• Monday, March 17, 2008 •

Conference Registration

7:00 a.m.–6:00 p.m.

Registration Open

Harborview

7:50 a.m.–8:00 a.m.

DH Opening Remarks

DMA • 3-D Imaging I

Harborview

8:00 a.m.–10:00 a.m.

DMA • 3-D Imaging I

Ichirou Yamaguchi; Gunma Univ., Japan, Presider

DMA1 • 8:00 a.m.

Invited

Coherence Holography and Spatial Frequency Comb for 3-D Coherence Imaging, Mitsuo Takeda¹, Wei Wang², Zhihui

Duan¹, Yoko Miyamoto¹, Joseph Rosen³; ¹Univ. of Electro-Communications, Japan, ²Heriot-Watt Univ., UK, ³Ben-Gurion Univ. of the Negev, Israel. The principle and the applications of a recently proposed unconventional holography technique, called *coherence holography*, and a related technique for dispersion-free 3-D coherence imaging based on a spatial frequency comb will be reviewed.

DMA2 • 8:30 a.m.

Passive 3-D Imaging with Quasi-Rotating PSFs, Sri Rama Prasanna Pavani, Rafael Piestun; Univ. of Colorado at Boulder, USA. Quasi-rotating point spread functions (QPSFs) are engineered three-dimensional (3-D) point spread functions (PSFs) for high efficiency 3-D imaging systems. QPSFs have over 30 times higher light throughput efficiency than strictly rotating PSFs.

DMA3 • 8:45 a.m.

Removing Ambiguity in 2-D Image Information by Means of 3-D Models, William T. Rhodes^{1,2}, Diego Pava²; ¹Georgia Tech, USA, ²Florida Atlantic Univ., USA. If moving objects in low-resolution 2-D video imagery are placed in their 3-D context, object uncertainties can be removed. We consider the case of detecting distant humans subtending only tens of pixels in digital video.

DMA4 • 9:00 a.m.

Small Reconstruction Distance in Convolution Formalism, Tristan Colomb^{1,2}, Frédéric Montfort³, Christian Depeursinge²; ¹Ctr. de Neurosciences Psychiatriques, Dept. de Psychiatrie, Ctr. Hospitalier Univ. Vaudois Lausanne, Switzerland, ²Ecole Polytechnique Fédérale de Lausanne, Switzerland, ³Lycée Tec SA, Switzerland. Different numerical wavefront propagations in Fresnel approximation are proposed in digital holography. Standard convolution formalism fails for small reconstruction distances. We developed a simplified convolution formalism that is equivalent to the angular spectrum.

DMA5 • 9:15 a.m.

Holographic Microscopy with Second Harmonic Signals, Ye Pu¹, Martin Centurion², Demetri Psaltis³; ¹Dept. of Electrical Engineering, Caltech, USA, ²Lab for Attosecond and High-Field Physics, Max-Planck-Inst. für Quantenoptik, Germany, ³Ecole Polytechnique Fédérale de Lausanne (EPFL), Lab d'Optique, Switzerland. We demonstrate a new holographic principle that records digital holograms between independently generated second harmonic signals and reference. This technique is uniquely suited for ultrafast four-dimensional contrast microscopy to capture molecular biological events.

DMA6 • 9:30 a.m.

Invited

Using Partial Coherence and Digital Holography for 3-D Imaging and Profile Extraction, Zeev Zalevsky¹, Ofer Margalit¹, Emanuel Vexberg¹, Roy Pearl¹, Javier Garcia²; ¹Bar-Ilan Univ., Israel, ²Univ. de València, Spain. Two approaches for 3-D imaging are presented. At first we use partial coherence of the light source and in the second we compute the unwrapped phase by illuminating the object from several slightly different angles.

St. Petersburg Ballroom

10:00 a.m.–10:30 a.m.

Coffee Break

St. Petersburg Ballroom

10:00 a.m.–4:00 p.m.

Exhibits Open

DMB • 3-D Imaging II

Harborview

10:30 a.m.–12:30 p.m.

DMB • 3-D Imaging II

Zeev Zalevsky; Bar-Ilan Univ., Israel, Presider

DMB1 • 10:30 a.m. Invited

Optical Imaging of Ocean Plankton: A Fantastic Voyage, Cabell Davis; Woods Hole Oceanographic Inst., USA. Plankton are the primary form of life in the ocean and constitute the base of the marine food web. New digital optical sampling methods from video to holography are providing new insights in plankton ecology.

DMB2 • 11:00 a.m.

3-D Representation of Retinal Blood Vessels through Digital Interference Holography, Mariana C. Potcoava, Myung K. Kim; Univ. of South Florida, USA. This paper presents a 3-D amplitude model of a pig retina sample with micron-scale resolution using Digital Interference Holography. We concentrate on the retinal vessels visualization and the retinal vessels width estimation.

DMB3 • 11:15 a.m.

Imaging Interferometry for Investigation of Mechanics of Multiple Cells in a Large Field of View, Jason Reed^{1,2}, Matthew Frank¹, Joshua J. Troke¹, Joanna Schmit³, Sen Han³, Michael A. Teitell^{1,2}, James K. Gimzewski¹; ¹Univ. of California at Los Angeles, USA, ²California NanoSystems Inst., USA, ³Veeco Instruments, USA. We demonstrate the mechanical probing of tens of cells simultaneously while an interferometric optical profiler measures both the force of the probes and the response of the cells with nanometer accuracy over a wide field.

DMB4 • 11:30 a.m.

Simultaneous Depth Determination of Multiple Objects by Focus Analysis in Digital Holography, Toyohiko Yatagai^{1,2}, Mark L. Tachiki²; ¹Utsunomiya Univ., Japan, ²Univ. of Tsukuba, Japan. Focus analysis techniques from computer vision are applied to digital holography to automate the process of focusing on various objects in the image and estimating their depths. Computer simulation and experimental results are presented.

DMB5 • 11:45 a.m.

Dual-Wavelength Reflection Digital Holographic Microscopy Applied to the Detection of Pores in Coal Samples, Alexander Khmaladze¹, Alejandro Restrepo-Martínez², Myung Kim¹, Roman Castañeda², Astrid Blandón²; ¹Univ. of South Florida, USA, ²Univ. Natl. de Colombia Sede Medellín, Colombia. The detection of pores in coal samples using the multi-wavelength phase imaging digital holography is discussed and compared to software unwrapping.

DMB6 • 12:00 p.m. Invited

3-D Fibre-Optical Nonlinear Optical Microscopy Imaging, Min Gu; Swinburne Univ. of Technology, Australia. The recent development of fibre-optical nonlinear optical microscopy for 3- endoscope tissue imaging is reported. The new compact probe is designed with double-clad photonic crystal fibre components and a microelectromechanical system (MEMS) mirror.

12:30 p.m.–1:30 p.m.

Lunch Break

DMC • Digital/Electronic Holography

Harborview

1:30 p.m.–3:30 p.m.

DMC • Digital/Electronic Holography

Hiroshi Yoshikawa; Nihon Univ., Japan, *Presider*

DMC1 • 1:30 p.m. Invited

Reconstruction of Three-Dimensional Images of Real Objects by Electronic Holography, Tomoyuki Mishina, Makoto Okui; Natl. Inst. of Information and Communications Technology, Japan. This paper described methods to display real objects with electronic holography. With a holographic display that applied these methods, autostereoscopic images of real, moving objects could be viewed at a distance of 40 cm.

DMC2 • 2:00 p.m.

Grating Phase-Shifting In-Line Digital Holography, Wenjing Zhou^{1,2}, Yingjie Yu¹, Ping Ni¹, Anand Asundi³, Zhijiang Zhang¹; ¹Shanghai Univ., China, ²Dept. of Automation, Guangdong Ocean Univ., China, ³Nanyang Technological Univ., India. In-line digital holograms with object illuminated by the phase-shifted fringes exported on an SLM are recorded by CCD. The object-wave is reconstructed by phase-shifting algorithm and diffraction theory. The method is validated experimentally with phase-grating.

DMC3 • 2:15 p.m.

Fresnel Incoherent Digital Holograms Directly Recorded by Multiple Viewpoint Projections, Natan T. Shaked, Joseph Rosen; Ben Gurion Univ. of the Negev, Israel. We present and experimentally demonstrate a new, efficient, direct and accurate method of obtaining a modified Fresnel hologram under incoherent illumination by directly processing the projections of the three dimensional scene, and without using approximations.

DMC4 • 2:30 p.m.

Reconstruction of Digital Color Holograms and

Application to Full Field Metrology, *Pascal Picart^{1,2}, Denis Mounier³, Eudes-Evarard Bobboh-Ebo², Jean-Michel Desse⁴; ¹Lab d'Acoustique de l'Univ. du Maine, France, ²Ecole Natl. Supérieure d'Ingénieurs du Mans, France, ³Lab de Physique de l'Etat Condensé, France, ⁴Office Natl. d'Etudes et de Recherches Aérospatiales, France.* This paper focuses on new opportunities given by high spatial resolution multi-wavelength digital holographic metrology. The method and its application to simultaneous deformation measurement of an object submitted to mechanical loading are described.

DMC5 • 2:45 p.m.

Metrology of Fluids with Digital Color Holography, *Jean-Michel Desse¹, Patrice Tankam², Pascal Picart^{2,3}; ¹Office Natl. d'Etudes et de Recherches Aérospatiales, France, ²Lab d'Acoustique de l'Univ. du Maine, France, ³Ecole Natl. Supérieure d'Ingénieurs du Mans, France.* A digital three-color holographic interferometer devoted to the measurement of fluids is presented. Recording uses a three layer photodiode stack sensor allowing a simultaneous recording with high spatial resolution. Experimental results validate the proposed method.

DMC6 • 3:00 p.m.

Spectrometer-Based Digital Holographic Tomography, *Lingfeng Yu, Zhongping Chen; Beckman Laser Inst., Univ. of California, USA.* A digital holographic tomography system has been developed based on a fiber-based spectral interferometer. Multiple synthesized holograms of different wavelengths are obtained by transversely scanning a probe beam and then used for three-dimensional tomographic imaging.

DMC7 • 3:15 p.m.

Digital Holography with Arbitrary Temporal Phase-Shifts and Multiple Wavelengths for Shape Measurement of Rough Surfaces, *Daniel Carl, Markus Fratz, Dirk Strohmeier, Dominik M. Giel, Heinrich Höfler; Fraunhofer Inst. for Physical Measurement Techniques, Germany.* A novel implementation of lensless multi-wavelength digital holography with arbitrary temporal phase-shifts is presented. The algorithm proposed by Cai et al. [1] is used to our knowledge for the first time in lensless holography.

St. Petersburg Ballroom

3:30 p.m.–4:00 p.m.

Coffee Break

JMA • Joint DH and LACSEA Poster Session

Foyer

4:00 p.m.–6:00 p.m.

JMA • Joint DH and LACSEA Poster Session

JMA1

IVR-Based Computational Reconstruction Method in Three-Dimensional Integral Imaging with Non-Uniform Lens Array, *Chang-Keun Kim, Keong-Jin Lee, Dong-Choon Hwang, Seung-Cheol Kim, Eun-Soo Kim; 3-D Display Res. Ctr., Natl. Res. Lab of 3-D Media, Dept. of Electronic Engineering, Kwangwoon Univ., Republic of Korea.* In this paper, we propose an IVR-based computational reconstruction method to enhance the resolution of reconstructed images in three-dimensional integral imaging with a non-uniform lenslet array having different focal lengths and aperture sizes.

JMA2

Depth-Enhanced Integral Floating Imaging System with Variable Image Planes Using Polymer-Dispersed Liquid-Crystal Films, *Youngmin Kim, JooHwan Kim, Yunhee Kim, Jae-Hyun Jung, ByoungHo Lee; School of Electrical Engineering, Seoul Natl. Univ., Republic of Korea.* A depth-enhanced three-dimensional integral floating imaging system with variable imaging planes is proposed. Polymer-dispersed liquid-crystal films are used for implementing the variable planes. The proposed method is described and experiment results are provided.

JMA3

Optical Sectioning Method Using Wigner Distribution Function Filtering, *Sung-Wook Min¹, Hwi Kim², ByoungHo Lee², Ting-Chung Poon³; ¹Kyung Hee Univ., Republic of Korea, ²Seoul Natl. Univ., Republic of Korea, ³Virginia Tech, USA.* An optical sectioning method for optical scanning holography using Wigner distribution function is proposed. The feasibility of the proposed method is shown with the simulation of the Wigner distribution function filtering of two layer signals.

JMA4

Digital Holographic Security System Using Photopolymer, *Nam Kim, HyeonSeop Jeong, JaeHyeong Park; Chungbuk Natl. Univ., Republic of Korea.* In this paper, we introduced digital holography and its application in photopolymer. We propose the double-side dual hologram reconstruction scheme and demonstrate the holographic smart card system using digital holographic memory technique.

JMA5

3-D Image Quality Enhancement in Computational Integral Imaging System by Additional Use of an Interpolation Method

Dong-Hak Shin, Hoon Yoo; Dongseo Univ., Republic of Korea. We propose a computational integral imaging reconstruction method using interpolation algorithms to improve the viewing quality of 3-D reconstructed images. To show the usefulness of the proposed method, we carry out experiments on real objects.

JMA6

Non-Holographic Method for Detection of Spatial Positions of Microparticles by Means of Conical Waves,

Peeter Piksarv, Ando Aasa, Kaido Reivelt; Inst. of Physics, Univ. of Tartu, Estonia. The possible applications of conical waves for simultaneous, real-time determination of spatial configuration of multiple microparticles has been studied.

JMA7

Quantitative Phase Microscopy with Multi-Wavelength Unwrapping and Tomographic 3-D Reconstruction,

Matthew T. Rinehart, Michael Giacomelli, Kevin Chalut, Adam Wax; Duke Univ., USA. Asynchronous digital holography has been developed for quantitative phase measurements, and will be extended to multi-wavelength phase unwrapping and 3-D tomographic reconstruction. Results acquired from standard samples and also live cell samples will be presented.

JMA8

Resolution-Improved Image Reconstruction of 3-D Object Occluded Partially by the Unknown Occlusion in Computational Integral Imaging,

Dong-Hak Shin, Chun-Wei Tan, Hoon Yoo, Byung-Gook Lee; Dongseo Univ., Republic of Korea. We propose a method for improved reconstruction of 3-D object occluded partially by the unknown occlusion using computational integral imaging. To verify the proposed method, some experiments are carried out and the results are presented.

JMA9

High-Performance CGH Processor for Real-Time Digital Holography,

Young-Ho Seo¹, Hyun-Jun Cho², Dong-Wook Kim²; ¹Hansung Univ., Republic of Korea, ²Kwangwoon Univ., Republic of Korea. This paper proposes a new hardware architecture to generate digital hologram using the modified CGH (Computer Generated Hologram) algorithm for hardware implementation and design to FPGA platform.

JMA10

An Electronic Watermarking Technique for Digital Hologram,

Hyun-Jun Choi¹, Young-Ho Seo², Ji-Sang Yoo¹, Young-Geun Choi¹, Hwa-Sung Kim¹, Dong-Wook Kim¹; ¹Kwangwoon Univ., Republic of Korea, ²Hansung Univ., Republic of Korea. This paper propose a watermarking scheme, a method to protect the ownership, for holograms, which uses the DCT domain data as the ones to be watermarked. This scheme shows strong robustness against the considered attacks.

JMA11

Projection Moiré Profilometer Using Computer Generated Projection and Demodulation Grids on Liquid Crystals,

Jan A. N. Buytaert, Joris J. J. Dirckx; Univ. of Antwerp, Belgium. A projection moiré interferometer for topography is presented, which uses liquid crystal light modulators for both projection and demodulation grid. High resolution is obtained by optical demodulation, the 4-bucket algorithm and discrete grid averaging theory.

JMA12

Computer-Generated Disk Hologram,

Takeshi Yamaguchi, Tomohiko Fujii, Hiroshi Yoshikawa; Nihon Univ., Japan. It is difficult to realize a computer-generated disk hologram due to the needs of high resolution output and huge computation. We have achieved to make the computer-generated disk hologram by using the fringe printer.

JMA13

Synthesizing Incoherent Digital Holograms with Reduced Number of Projections,

Barak Katz, Natan T. Shaked, Joseph Rosen; Ben Gurion Univ. of the Negev, Israel. We present a method of recording digital Fourier holograms under incoherent illumination, using a significantly reduced number of observed perspective projections and a digital prediction of the middle projections. The method is demonstrated experimentally.

JMA14

Three-Dimensional Display Using Integral Imaging Technique Captured by Holographic Method,

Sukhbat Purev, Seung-Cheol Kim, Eun-Soo Kim; 3-D Display Res. Ctr., Dept. of Electronic Engineering, Kwangwoon Univ., Republic of Korea. In this paper, we propose the integral imaging reconstruction technique from the hologram pattern with some image processing. From some experimental result, we show the proposed method could be possible.

JMA15

Efficient Computational Integral Imaging Reconstruction Scheme Using Depth Extraction, *Jin-Mo Kang, JooHwan Kim, ByoungHo Lee; Seoul Natl. Univ., Republic of Korea.* We propose a new method using depth extraction for fast and efficient computational integral imaging reconstruction (CIIR). Using the depth extraction method, we can know the depth plane we should reconstruct in the CIIR method.

JMA16

Computer-Generation Method for Elemental Image of Integral Floating Display Using Virtual Integral Imaging System, *Gilbae Park, Jae-Hyun Jung, JooHwan Kim, ByoungHo Lee; Seoul Natl. Univ., Republic of Korea.* We propose a fast and efficient generation method of elemental images for integral imaging using computer-graphics library in integral floating display system. This method is demonstrated through experiments.

Posters JMA17–JMA45 are listed in the LACSEA abstract section of the program.

St. Petersburg Ballroom

6:30 p.m.–8:00 p.m.

Conference Reception

NOTES

• **Tuesday, March 18, 2008** •

Conference Registration

7:00 a.m.–6:00 p.m.

Registration Open

DTuA • Integral Photography and Imaging: 3-D Systems

Harborview

8:00 a.m.–10:00 a.m.

DTuA • Integral Photography and Imaging: 3-D Systems

George Barbastathis; MIT, USA, *Presider*

DTuA1 • 8:00 a.m.

Invited

Applications of Integral Photography for Real-Time

Imaging, Fumio Okano; NHK Science and Technical Res. Labs, Japan Broadcasting Corp., Japan. We describe applications of integral photography modified for real-time imaging. 3-D-TV that requires huge number of pixels, amplified 3-D viewer and afocal array are proposed. 3-D images were confirmed by experiments of these applications.

DTuA2 • 8:30 a.m.

A Thin 3-D–2-D Convertible Integral Imaging System Using a Pinhole Array on an Electroluminescent (EL) Sheet,

Jae-Hyun Jung, Youngmin Kim, JooHwan Kim, ByoungHo Lee; Seoul Natl. Univ., Republic of Korea. We propose a thin and compact 3-D–2-D convertible integral imaging system using a pinhole array on an electroluminescent (EL) sheet. This system can electrically convert between 3-D and 2-D modes by switching EL sheet.

DTuA3 • 8:45 a.m.

Arbitrary View-Point Image Generation from Integral Imaging with Enhanced Resolution and Wide Field of View,

Jae-Hyeung Park; Chungbuk Natl. Univ., Republic of Korea. A novel view-point image generation algorithm based on integral imaging is presented. Arbitrary view-point image is generated through the central pixel disparity estimation and elemental image mapping, alleviating field of view limitation and resolution degradation.

DTuA4 • 9:00 a.m.

Color on White-Light Three-Dimensional Images Projected on Holographic Screens by Three-Chromatic Multiple Projection: First Results for an Image Point,

Jose J. Lunazzi, Daniel S. F. Magalhães; Campinas State Univ. (UNICAMP), Brazil. We describe the first elementary color representations obtained with a white-light holographic screen under lateral illumination. An image point is projected to the same position through different angular directions showing three-chromatic capability.

DTuA5 • 9:15 a.m.

Focused Image Creation Algorithms for Digital Holograms of Macroscopic Three-Dimensional Objects, Conor P.

McElhinney¹, Bryan M. Hennelly¹, Thomas J. Naughton^{1,2}; ¹Natl. Univ. of Ireland, Ireland, ²Univ. of Oulu, Finland. When a digital hologram is reconstructed, only points located at the reconstruction distance are in focus. We have developed a novel technique for creating an in-focus image of the macroscopic objects encoded in a digital hologram.

DTuA6 • 9:30 a.m.

Invited

Bio/Medical Applications Using High Definition 3-D Stereo Camera and Monitor System, Nam Kim; Chungbuk

Natl. Univ., Republic of Korea. In this paper, we demonstrated high definition resolution stereoscopic microscope as bio/medical application and 24/40-inch polarized-light stereoscopic display to improve the environmental factor for small and medium scale animal surgery using stereoscopic microscope system.

St. Petersburg Ballroom

10:00 a.m.–10:30 a.m.

Coffee Break

St. Petersburg Ballroom

10:00 a.m.–4:00 p.m.

Exhibits Open

DTuB • Digital Holographic Microscopy

Harborview

10:30 a.m.–12:30 p.m.

DTuB • Digital Holographic Microscopy

Min Gu; Swinburne Univ. of Technology, Australia, *Presider*

DTuB1 • 10:30 a.m.

Invited

Measuring Dynamics and Interactions of Colloidal Particles with Digital Holographic Microscopy, Ryan

McGorty, Jerome Fung, David Kaz, Steven Ahn, Vinodhan N. Manoharan; Harvard Univ., USA. Micrometer-sized colloidal particles are a model system for understanding self-assembly in condensed matter. Here I present the results of digital holographic microscopy experiments that probe the 3-D structure and dynamics of these systems.

DTuB2 • 11:00 a.m.

Two-Views Multiplexing in Transmission Digital Holographic Microscopy, Alejandro Restrepo-Martínez¹,

Roman Castañeda¹, Myung Kim²; ¹Univ. Natl. de Colombia Sede Medellín, Colombia, ²Univ. of South Florida, USA. Two views of a sample are recorded in a single hologram by a standard transmission digital holographic microscope. Single and mixed views can be reconstructed. This technique can be applied for observing dynamical processes.

DTuB3 • 11:15 a.m.

Light-Induced Refractive Index Profile Measurement Using Digital Holographic Microscopy, *Chau-Jern Cheng¹, Yu-Chih Lin¹, Han-Yen Tu²; ¹Natl. Taiwan Normal Univ., Taiwan, ²St. John's Univ., Taiwan.* We propose and demonstrate an in situ measurement technique of the light-induced refractive index profile in the PQ:PMMA holographic recording media by use of phase-shifting digital holographic microscopy.

DTuB4 • 11:30 a.m.

Confocal Scheme to Improve the Reconstructed Image in Digital Holographic Microscopy, *Wang-Ta Hsieh¹, Gu-Liang Chen¹, Ming-Kuei Kuo², Hon-Fai Yau³, Chi-Ching Chang⁴; ¹School of Defense Science, Natl. Defense Univ., Taiwan, ²Dept. of Electronic and Electrical Engineering, Natl. Defense Univ., Taiwan, ³Dept. of Optics and Photonics, Natl. Central Univ., Taiwan, ⁴Inst. of Electrophysics, Ming Dao Univ., Taiwan.* A confocal configuration for holographic reconstruction using an off-axis digital hologram without the additional phase-retrieval elements in the setup is presented. The optical system is capable of digital holographic microscopy with aberration free image reconstruction.

DTuB5 • 11:45 a.m.

Simultaneous Cell Morphometry and Refractive Index Measurement with Dual-Wavelength Digital Holographic Microscopy, *Benjamin Rappaz¹, Florian Charrière¹, Tristan Colomb², Christian Depeursinge¹, Pierre J. Magistretti^{1,2}, Pierre Marquet²; ¹Ecole Polytechnique Fédérale de Lausanne, Switzerland, ²Ctr. de Neurosciences Psychiatriques, Dept. de Psychiatrie, Ctr. Hospitalier Univ. Vaudois Lausanne, Switzerland.* The refractive index and cellular thickness information contained in the phase signal recorded by Digital Holographic Microscopy is measured independently with a dual-wavelength technique exploiting the dispersion of a dye present in the perfusion medium.

DTuB6 • 12:00 p.m.

Invited

A Demonstration of Total Internal Reflection Holographic Microscopy for the Study of Cellular Motion, *William M. Ash III, Myung K. Kim; Univ. of South Florida, USA.* Total internal reflection holographic microscopy (TIRHM) is a synthesis of evanescent wave microscopy with digital holography being developed for real-time quantitative phase microscopy of the interface of biological cells moving over a glass substrate.

12:30 p.m.–1:30 p.m.

Lunch Break

DTuC • Digital Holography and Holographic Microscopy

Harborview

1:30 p.m.–3:15 p.m.

DTuC • Digital Holography and Holographic Microscopy
Mitsuo Takeda; Univ. of Electro-Communications, Japan, President

DTuC1 • 1:30 p.m.

On-Axis Single Shot Digital Holography Using Polarization Based Two Sensing Channels, *Daesuk Kim, Byung Joon Baek; Chonbuk Natl. Univ., Republic of Korea.* On-axis single shot digital holography using polarization based two sensing channels is described. This study proposes a novel on-axis single shot method that can provide the same reconstruction quality as on-axis multiple shot scheme.

DTuC2 • 1:45 p.m.

Sub-Nanometer Resolution over Several Microns Range with Real-Time Dual-Wavelength Digital Holographic Microscopy, *Jonas Kühn¹, Tristan Colomb², Christophe Pache¹, Florian Charrière¹, Christian Depeursinge¹; ¹Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland, ²Ctr. de Neurosciences Psychiatriques, Dept. de Psychiatrie, Ctr. Hospitalier Univ. Vaudois Lausanne, Switzerland.* Single-acquisition dual-wavelength digital holographic microscopy provides real-time phase measurement range over several microns. We demonstrate axial resolution enhancement down to sub-nanometer range thanks to the non-correlation between both available wavefronts.

DTuC3 • 2:00 p.m.

Refractive Index Tomography by Digital Holographic Microscopy, *Christian Depeursinge¹, Nicolas Pavillon¹, Jonas Kühn¹, Tristan Colomb², Pierre Marquet²; ¹Ecole Polytechnique Fédérale de Lausanne, Switzerland, ²Ctr. de Neurosciences Psychiatriques, Dept. de Psychiatrie, Ctr. Hospitalier Univ. Vaudois Lausanne, Switzerland.* 3-D Refractive Index (RI) tomography appears as a challenging perspective in the observation of microscopic 3-D objects, biological cells in particular. Recent developments in Digital Holographic Microscopy have permitted to achieve accurate RI 3-D images.

DTuC4 • 2:15 p.m.

Three-Wavelength Phase Imaging Digital Holography of MEMS Motion, *Christopher J. Mann, Philip R. Bingham, Kenneth W. Tobin; Oak Ridge Natl. Lab, USA.* Three-wavelength digital holography is applied to obtain holographic movies of MEMS motion. Three lasers are used to generate phase movies without the 2π ambiguities while maintaining the noise to that in the single-wavelength profile.

DTuC5 • 2:30 p.m.

Single-Shot Measurement of the Full Spatio-Temporal Field of Ultrashort Pulses with Multi-Spectral Digital Holography, Rick Trebino, Pablo Gabolde; *School of Physics, Georgia Tech, USA*. We present a single-shot, simple technique for measuring the full spatio-temporal electric field of ultra-short laser pulses by measuring multiple digital holograms in a single camera frame. We experimentally demonstrate this technique using femtosecond pulses.

DTuC6 • 2:45 p.m.

Comparison of Reconstruction Methodologies for Off-Axis and In-Line Digital Holographic Microscopy, John F. Restrepo, Jorge A. Herrera, Román Castañeda; *Univ. Natl. de Colombia, Colombia*. Transmission Digital Holographic microscopy is implemented to obtain phase profiles of a thin film; different methodologies for the holographic reconstruction process are implemented and a comparison has been made.

DTuC7 • 3:00 p.m.

Colloidal Stability Evaluation via Digital In-Line Holographic Microscopy, Diego A. Hincapié¹, Cesar Restrepo², Herley Casanova², Jurgen Kreuzer³, Jorge Garcia-Sucerquia^{1,3,4}; ¹*Univ. Natl. de Colombia Sede Medellín, Colombia*, ²*Univ. de Antioquia, Colombia*, ³*Dalhousie Univ., Canada*, ⁴*Laval Univ., Canada*. Stability of colloidal systems is measured with Digital In-line Holographic Microscopy (DIHM). The DIHM portability and the correctness of the obtained results make this approach an attractive option for *in situ* studies of colloidal systems.

St. Petersburg Ballroom

3:30 p.m.–4:00 p.m.

Coffee Break

NOTES

• **Wednesday, March 19, 2008** •

Conference Registration

7:00 a.m.–6:00 p.m.

Registration Open

DWA • 3-D Displays and Systems

Harborview

8:00 a.m.–10:00 a.m.

DWA • 3-D Displays and Systems

Partha P. Banerjee; Univ. of Dayton, USA, Presider

DWA1 • 8:00 a.m. Invited

Holographic 3-DTV Research within the European 3-DTV Project, Levent Onural; Bilkent Univ., Turkey. A European project on 3DTV has been functional since September 2004. Holographic displays for 3DTV and signal processing issues associated with diffraction and holography are among research interests. The research has already generated interesting results.

DWA2 • 8:30 a.m.

Moving Parallax Barrier Panel Design Using Cross Connector, Seung-Hyun Lee¹, Sung-Min Wi¹, Ji-Sang Yoo¹, Dong-Wook Kim¹, Hyung-Chul O. Li¹, Kee-Taek Kham²; ¹Kwangwoon Univ., Republic of Korea, ²Kangwon Natl. Univ., Republic of Korea. In this paper, a method of the moving parallax barrier is introduced to supplement a disadvantage of the conventional parallax barrier that provides observation at the specific locations.

DWA3 • 8:45 a.m.

Multiplex Computer-Generated Holograms for 3-D Color Display, William J. Dallas; Dept. of Radiology, Univ. of Arizona, USA. A multiplex CGH encodes more than one wavefront. We look at the particular subject of encoding the modulus for two encoded wavefronts. The application is color, 3-D display.

DWA4 • 9:00 a.m.

GPU-Based Acceleration Method for Coherent Holographic Stereogram Calculation, Hoonjong Kang, Takeshi Yamaguchi, Hiroshi Yoshikawa; Dept. of Electronics and Computer Science, Nihon Univ., Japan. In this paper, we show an acceleration method of the coherent holographic stereogram calculation by means of the GPU, and demonstrate the performance gain up to a factor of over 10 compared with CPU-based computing.

DWA5 • 9:15 a.m.

Method of Measuring Subjective 3-D Visual Fatigue: A Five-Factor Model, Hyung-Chul O. Li¹, Junho Seo¹, Keetaek Kham², Seunghyun Lee¹; ¹Kwangwoon Univ., Republic of Korea, ²Kangwon Natl. Univ., Republic of Korea. 3-D visual fatigue has delayed the widespread use of commercial 3-D displays. This study shows how the full range of characteristics of subjective 3-D visual fatigue have been measured and proposes a five-factor model.

DWA6 • 9:30 a.m.

Invited

Current Research and Development Activities for 3-D Applications in Korea, Seung-Hyun Lee, Ji-Sang Yoo, Dong-Wook Kim; Kwangwoon Univ., Republic of Korea. The Korean government and industry deem 3-D field to be the next generation industry and make a lot of investments. The status of recent study and development in 3-D application field is described.

St. Petersburg Ballroom

10:00 a.m.–10:30 a.m.

Coffee Break

St. Petersburg Ballroom

10:00 a.m.–4:00 p.m.

Exhibits Open

DWB • Holographic Interferometry, Modulators, Filters, and Materials

Harborview

10:30 a.m.–12:30 p.m.

DWB • Holographic Interferometry, Modulators, Filters, and Materials

Myung K. Kim; Univ. of South Florida, USA, Presider

DWB1 • 10:30 a.m. DH

Invited

Assessment of 3-D Angular Movements of Diffuse Objects Using Holographic Interferometry, Partha P. Banerjee¹, G. Nehmetallah¹, M. R. Chatterjee¹, S. C. Prahara², N. V. Kukhtarev³; ¹Univ. of Dayton, USA, ²DMS Technologies Inc., USA, ³Alabama A&M Univ., USA. We have developed a dynamic holographic interferometry (DHI) setup to measure changes in attitudes, distortions and vibrations of objects, using a holocamera. Digital algorithms have been developed to calculate above parameters from DHI images.

DWB2 • 11:00 a.m.

Optical Phase Unwrapping with Laser-Diode Phase Shifting Interferometry, Nilanthi Warnasooriya, Myung K. Kim; Univ. of South Florida, USA. A Michelson type multi-wavelength phase shifting interferometer illuminated by laser diodes is used to obtain quantitative phase images. The 2π ambiguities in phase images are removed by using 3-wavelength optical phase unwrapping.

DWB3 • 11:15 a.m.

Phase and Amplitude Modulation by Complementarily Combined TNLC Spatial Light Modulator, Joonku Hahn, Yongjun Lim, Byoungcho Lee; *Natl. Creative Res. Ctr. for Active Plasmonics Applications Systems, Inter-Univ. Semiconductor Res. Ctr. and School of Electrical Engineering, Seoul Natl. Univ., Republic of Korea.* The complementarily combined twisted nematic liquid crystal (TNLC) spatial light modulator (SLM) with two sub-SLMs is proposed. With this SLM we present the enhanced diffraction image from the CGH with small deviation of amplitude modulation.

DWB4 • 11:30 a.m.

Volumetric Film Patterning Method Using a Digital Micro-Mirror Device and Telecentric Lens, Yongjun Lim, Joonku Hahn, Byoungcho Lee; *Natl. Creative Res. Ctr. for Active Plasmonics Applications Systems, Inter-Univ. Semiconductor Res. Ctr. and School of Electrical Engineering, Seoul Natl. Univ., Republic of Korea.* We propose a volumetric film patterning method using commercially available digital micro-mirror device (DMD) and telecentric lens. In addition, the reduction of the image size using telecentric lens is to be suggested.

DWB5 • 11:45 a.m.

Digital Holographic Microscope for Characterization of Micro-Optical Diffractive Components, Vijay Raj Singh¹, Oi Choo Chee¹, Hao Yan², Eddy Sim¹, Anand Asundi²; ¹Ngee Ann-AEM Ctr. of Innovation, Singapore, ²School of Mechanical and Aerospace Engineering, Nanyang Technological Univ., Singapore. We report a low-cost DHM for characterization of micro-optical devices. The software allows live reconstruction of the amplitude and phase images. The results are compared with those of conventional phase contrast microscopy and confocal microscopy.

DWB6 • 12:00 p.m.

Volume Holographic Angle-Depth-Wavelength Filters for Spatial-Spectral Imaging Systems, Yuan Luo^{1,2}, Paul J. Gelsinger¹, George Barbastathis³, Jennifer K. Barton^{1,2,4}, Raymond K. Kostuk^{1,2}; ¹College of Optical Sciences, Univ. of Arizona, USA, ²Dept. of Electrical and Computer Engineering, Univ. of Arizona, USA, ³Dept. of Mechanical Engineering, MIT, USA, ⁴Div. of Biomedical Engineering, Univ. of Arizona, USA. In this paper, we present the design and performance of angle-multiplexed holographic filters formed at 488nm and reconstructed with a LED operated at ~630nm. Image data extracted with the holographic filters are also experimentally demonstrated.

DWB7 • 12:15 p.m.

Direct Laser-Writing of Diffractive Optical Elements in Photopolymer Layers, Markus Fratz, Dietmar Eberhard, Wolfgang J. Riedel, Dominik M. Giel; *Fraunhofer Inst. for Physical Measurement Techniques, Germany.* We present on direct writing of diffractive optical elements in thin polymer layers. The direct-writing process introduces optical birefringence in the polymer. The resulting elements can be described as polarization holograms. Experimental results are demonstrated.

Harborview

12:30 p.m.–12:40 p.m.

DH Closing Remarks

Key to Authors and Presiders

(**Bold** denotes Presider or Presenting Author)

A

A'Amar, Ousama-BTuF14
Aasa, Ando-JMA6
Abdi, Rabah A.-BSuB5
Abeytunge, Sanjeewa-**BTuF56**, BTuF66
Abshire, James B.-JMA19, **LMA4**, LMC5
Achilefu, Samuel-BWE2
Acosta, Victor M.-JMA44
Adányi, Nóra-JMA26
Adibi, Ali-BMD31
Adler, Desmond C.-BWF8
Agate, Ben-BMD60
Aguirre, Andres-BWG1
Aguirre, Aaron D.-BWC7
Ahn, Steven-DTuB1
Ahnelt, Peter-BMB3
Akers, Walter-BWE2
Akhbardeh, Alireza-**BMD20**
Akiba, Masahiro-**BMD71**
Akin, Ata-BMD3, BMD4, BMD6, BSuE62,
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Al Abdi, Rabah-BSuE19
Al-Arashi, Munir-BTuF49
Aldén, Marcus-LWC3, LWC5
Alerstam, Erik-**BSuE67**
Allain, Marc-BSuE87
Allan, Graham-LMA4, LMC5
Allen, Mark-LMA1, LMB5
Amin, Khalid-BSuE27, BSuE86
Amit, Guy-BMD88
Amoozegar, Cyrus-**BTuF7**
Ananda, Sharmila-BSuF2
Anandasabapathy, Sharmila-BTuD3
Andegeko, Yair-BMD51
Anderson, Harry L.-BWB3
Andersson-Engels, Stefan-BMC2, BSuE67,
BWB5, LTuC4
Andreeva, E. V.-BMD80
Andreou, Stylianos-BTuF39
Andronica, Randall-BSuE19
Ansari, Rehman-BSuE19
Aprelev, Alexei-BMF7
Apreleva, Sofia V.-**BSuE24**
Araki, Tsutomu-BTuF61
Aranda, Iana-BTuB3
Ardeshirpour, Yasaman-**BSuE21**, BTuD5
Arger, Peter H.-BTuF35
Argue, Leanne-LThA1
Arie, Ady-BTuF32
Ariese, Freek-LTuB5
Armstrong, Karla M.-LTuA3
Armstrong, Victoria-BSuE15
Arridge, Simon R.-BMC2, BSuE13,
BSuE14, BWE6, BWG8
Ash III, William M.-DTuB6
Asobe, Masaki-**JMA21**
Asundi, Anand-DMC2, DWB5
Atkinson, Chris-BTuF14
Auner, Gregory W.-BSuE11
Austwick, Martin-**BSuB8**, **BTuC2**
Axelsson, Johan-BMC2, **BWB5**
Axner, Ove-LTuA5
Ayata, Cenk-BWC4
Aydöre, Sergül-**BMD4**

B

Baccaro, Nancy-BTuD5
Backman, Vadim-BTuC5, BTuC6, BTuF10,
BTuF40
Badizadegan, Kamran-BTuD6, BWD3
Baek, Byung Joon-DTuC1
Baek, Hyeon-Man-BSuE69
Bajraszewski, Tomasz-**BWF1**
Baker, Jr., James R.-BSuE4
Bakhirkin, Yury A.-**LMB4**
Bakker, Leon-BSuF3
Bambha, Ray P.-LMC3, LThB4
Ban, Han Y.-**BSuE18**
Banerjee, Partha P.-**DWA**, **DWB1**
Baraldi, Patrizia-BMD8
Barbastathis, George-BMF2, **DTuA**,
DWB6
Barbour, Ethan A.-LWC2
Barbour, Randall L.-**BMD1**, BSuB5,
BSuE19, BSuE57, BSuE61
Bargo, Paulo R.-**BTuF17**, BTuF50
Barton, Jennifer K.-BMF2, DWB6
Baselli, Giuseppe-BMD10
Bassi, Andrea-BSuE75
Bastiaans, G.-LTuC1
Bauer, Christoph-JMA29, **LThB3**
Beard, Paul C.-**BMA2**
Beattie, Bradley J.-BMC8
Beaumont, Eric-BMD7
Bechtel, Kate-BTuA3
Becker, K.-BTuA4
Behrens, Ashley K.-BTuF2
Beigang, René-**LThA**
Belfield, Kevin D.-**BSuE90**, **BSuE91**
Belinson, Jerome-BMD77
Belkebir, Kamal-BMD57
Ben-Yakar, Adela-**BTuF37**
Bender, Janelle-BTuC3, **BTuF22**
Benes, Christian-BMD15
Bensalah, Karim-BTuF43, BTuF44
Benveniste, Helene-BTuE3
Benyamin-Seeyar, Anader-BWE8
Berger, Andrew J.-**BTuF34**
Berger, Jörn-BTuF19
Berger, Michel-BMD26
Bergethon, Peter R.-BTuE2
Bernus, Olivier-**BMC3**
Berrocal, E.-LTuC3
Bérubé-Lauzière, Yves-**BMD32**
Betzig, Eric-BTuA2
Beuthan, J.-BMD34, BSuD6, SuE59
Bewley, William-JMA40
Bhuiyan, Aizaz H.-LMC4
Bianchi, Anna M.-BMD10
Bickford, Lissett R.-**BSuE7**, BTuF12
Biegon, Anat-BTuF65
Bigio, Irving-BSuB8, BTuC2, BTuF14
Bigour, Damien-JMA43
Bilyy, Rostyslav-**BSuE9**
Bingham, Philip R.-DTuC4
Binns, Alison-BMB3
Birgul, Özlem-BSuE69
Bisson, Scott E.-LThA2
Blackmore, Kristina-BSuE70, **BSuE71**
Blandón, Astrid-DMB5
Blasi, Anna-**BSuE79**
Boas, David-BMD2, BMD24, BMD3,
BSuB2, BSuB7, BSuD4, BSuD8,
BSuE20, BSuE72, BSuE73, **BTuE**,
BTuE1, BWC4, BWC5, BWC7
Bobboh-Ebo, Eudes-Evrrard-DMC4

Boccaro, Albert C.-BTuF48
Bocklage, Therese J.-BTuD7
Böehm, Benjamin-LWB2
Boffety, Matthieu-**BSuE87**
Bogaards, Arjen-BTuC7
Bohling, Christian-LThC3
Boisselle, Matthew-JMA33
Bolay, Hayrūnnisa-BMD6
Bontus, Claas-BMD23, BSuF3
Bood, Joakim-LWC5
Bordy, Thomas-BMD41
Bosschaart, Nienke-BWD6
Bouchard, Jean-Pierre-BWB4
Bouchard, Matthew B.-BME2, BSuD7,
BTuF30, BWE1, BWC7
Bouchelev, V.-BTuE8
Bouchier, Francis A.-LThB4
Boulous, Fouad I.-BSuB6
Bouma, Brett E.-BTuB2
Boutet, Jérôme-BMD26
Bower, Bradley A.-BWF2
Bowlan, Pamela R.-**BMD61**
Bown, Stephen-BSuB8, BTuC2
Boxx, Isaac-LWB2
Bozinovic, Nenad-**BTuF57**
Brady, David J.-BTuF15
Brambilla, Marco-**BSuE88**, BWG8
Brand, Randall E.-BTuC6
Brendel, Bernhard-BMD23, **BSuE43**,
BSuE44, BSuF3
Brieu, Nicolas-**BMD7**
Briggs, Richard-BMD13
Brock, R. S.-BTuF13
Brooks, Dana-BMD24, BMD67, BSuB2,
BSuE20, BSuE26
Brooks, Traci-BSuE1
Brown, Edward B.-BTuF60
Brown, L. R.-LTuB4
Brown, Tom-BMD60
Brown, William J.-BTuC8
Brübach, Jan-LWB5
Bruno, John D.-LMB4
Buckley, Erin M.-BSuD5, **BTuF35**
Budker, Dmitry-JMA44
Bunce, Scott-BMD20
Bunney, Tom-BWD2
Bunting, Charles F.-BSuE31
Bur, Andres M.-BSuB5
Burgess, Sean A.-BME2, **BSuD7**, BTuF30,
BWE1, BWC7
Burke, Ryan M.-BTuF60
Busch, David R.-**BSuE16**
Busch, Theresa M.-BSuD2
Butti, Michele-**BMD10**
Buytaert, Jan A. N.-**BWG5**, **JMA11**

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Cadeddu, Jeffrey-BSuE80, BTuF43,
BTuF44
Caffini, Matteo-BMD10
Canedy, Chadwick L.-JMA40
Cao, Zhengyi-BSuE4
Capala, Jacek-BTuD8
Carl, Daniel-**DMC7**
Carmen, Alejandro D.-BTuE4
Carminati, Rémi-BSuE87
Carp, Stefan-**BMD2**, BMD24, BSuB2,
BSuB7, BSuE20, BTuE1
Carpenter, Colin-**BSuB4**, BSuE36
Casanova, Herley-DTuC7

Castañeda, Roman–DMB5, DTuB2, DTuC6
 Castillo, Diego–BWC1
 Cauli, Bruno–BME2
 Cayce, Jonathan M.–**BTuE5**
 Centurion, Martin–DMA5
 Cerussi, Albert E.–BSuE69
 Cerutti, Sergio–BMD10
 Cha, Jae Won–**BMD52**
 Chai, Ning–LWA3
 Chalau, Vadzim–BTuC2
 Chalut, Kevin–BTuF6, BTuF7, JMA7
 Chan, Kinpui–BMD71
 Chance, Britton–BSuB1, BSuE55, BSuE92
 Chang, Chi-Ching–DTuB4
 Chang, Joseph–BSuE7
 Chang, Yu-Chung–**BSuE4**
 Change, Shoude–BMD86
 Charrière, Florian–DTuB5, DTuC2
 Chatterjee, M. R.–DWB1
 Chaumet, Patrick–BMD57
 Chee, Oi Choo–**DWB5**
 Chen, Brenda–BME2, BWC7
 Chen, Cheng–**BTuF26**
 Chen, Chien-Hung–BMD38, BSuE54
 Chen, Debbie K.–**BTuE2**
 Chen, Gu-Liang–DTuB4
 Chen, J.–LTuC1
 Chen, Jiong–BTuF65
 Chen, Liang-Yu–**BMD38**, BSuE54
 Chen, Nanguang–**BTuF63**
 Chen, Shih-Chi–BTuF52
 Chen, Weidong–**JMA36**, **JMA43**
 Chen, Y. Q.–LTuC1
 Chen, Yaqin–**BSuE50**
 Chen, Ying-Ling–JMA22
 Chen, Yu–**BWC7**, **BWF8**
 Chen, Zhongping–DMC6
 Cheng, Chau-Jern–**DTuB3**
 Cheng, Ji-Xin–**BWD1**
 Chernomordik, Victor–**BMD44**, BTuD8, BTuF48
 Chia, Thomas H.–**BWC1**
 Chicken, Wayne–BSuB8
 Chilkoti, Ashutosh–BWF5
 Chiu, S.–BTuE8
 Cho, Eun-Jin–BMD65
 Cho, Hyun-Jun–JMA9
 Choe, Regine–**BSuB1**, BSuD3, BSuE16, BSuE18, BSuE55, BTuF35
 Choi, Bernard–BWD7
 Choi, Heejin–**BTuF52**
 Choi, Hyun-Jun–**JMA10**
 Choi, Jee Hyun–**BMD22**, **BSuE2**
 Choi, Young-Geun–JMA10
 Chong, Changho–**BWF3**
 Chow, Tzu-Hao–BSuE8
 Christesen, Steven–**LThA1**
 Chu, Kengyeh K.–**BMD55**
 Chu, Michael K.–**BSuE42**
 Chung, So Hyun–**BSuE69**
 Çiftçi, Koray–BWC3
 Clark, Benjamin–BSuB8
 Cobb, Michael J.–**BMD89**, BTuB5
 Collins, Hazel A.–BWB3
 Colomb, Tristan–**BMD58**, **DMA4**, **DTuB5**, DTuC2, DTuC3
 Comelli, Daniela–BSuE66, BSuE75, LTuC5
 Comrie, Muriel–BMD60
 Comsa, Daria C.–**BWE5**
 Comstock, Christopher–BTuD4
 Connolly, James–BWF8
 Contag, Christopher H.–BWC6
 Contini, Davide–BMD10, BMD11, **BMD8**, BMD9, **BSuE58**, BWC6
 Cook, Noah M.–BTuF35
 Cooper, Chris–BSuE76, BSuE77
 Corlu, Alper–BSuB1
 Cormier, Jean-Francois–BWB4
 Correia, Teresa M. M.–**BSuE49**
 Corsini, Eric–JMA44
 Courtney, Patrick–BWD2
 Cousin, Julien–JMA36, JMA43
 Cova, Sergio–BWC6
 Crawford, James M.–BWC6
 Crocker, Robert W.–**LThA2**
 Cronin-Golomb, Mark–BMD54
 Crow, Matthew J.–**BSuE6**
 Cubeddu, Rinaldo–BMD10, BMD11, BMD39, BMD8, BSuB3, BSuE58, BSuE75, BSuE88, BWC6, BWC8, LTuC5
 Cucchiara, Brett L.–BSuD3
 Cui, Xiquan–**BMF5**
 Cula, Gabriela Oana–**BTuF50**
 Culpepper, Martin L.–BTuF52
 Culver, Joseph P.–**BMA**, BMD27, BME3, BWE2
 Curl, Robert F.–LMB3
 Czerniecki, Brian J.–BSuB1
D
 D'Andrea, Cosimo–BWC8, **LTuC5**
 da Silva, Anabela–BMD25, BMD26, **BMD41**, BSuE47
 Dackman, Matthew–JMA22
 Dai, Guangping–BMD2
 Dalla Mora, Alberto–BWC6
 Dallas, William J.–**DWA3**
 Dam, Jan S.–BMD76
 Danielli, Amos–**BTuF32**
 Dansson, Mark A.–JMA33
 Dantus, Marcos–BMD51, LThB2
 Das, Aniruddha–BME2
 Dasari, Ramachandra–BTuD2, BTuD6, BWD3
 Davidson, David F.–JMA28
 Davidson, Michael W.–BTuA2
 Davis, Anjul M.–**BWC8**
 Davis, Cabell–**DMB1**
 Davis, Dan–BWD2
 Davis, Scott C.–BMC4, **BWE7**
 Davis, S. J.–BTuC4
 de Boer, Johannes F.–BTuE7
 de las Morenas, Antonio–BTuD6
 Debourdeau, Mathieu–BMD41
 Deckers, Peter–BTuD5
 deDeugd, Casey M.–**BMD68**
 Deep, Nicholas–BTuC5
 Dehghani, Hamid–**BMC4**, **BMD27**, BMD36, BME3, BSuB4, **BSuE30**, BSuE31, BSuE35, BSuE42, BWE7
 Delano, Matthew–BSuE10
 DeLuca, John–BMD1
 DeLucia, F. C.–LThC1
 DeMichele, Angela–BSuB1
 Demos, Stavros G.–BTuF20, BTuF42
 Deng, Helen–BMD5
 Depeursinge, Christian–**BMD58**, DMA4, DTuB5, DTuC2, **DTuC3**
 Desroches, Patrice–BWB4
 Desse, Jean-Michel–DMC4, DMC5
 Detre, John A.–BSuD3, BSuD5
 Devor, Anna–BMD3, BWC7
 Dewhirst, Mark–BTuC3
 Dhawan, Jasbeer–BTuF65
 Dholakia, Kishan–BMD60
 Diamond, Kevin R.–BWB4
 Diamond, Solomon G.–BSuD4, BSuD8
 Dick, Samantha N.–**BSuE70**
 Dietsche, Gregor–BMD21
 Dilekoz, Ergin–BWC4
 DiMarzio, Charles–BMD66, BMD67
 Dinten, Jean-Marc–BMD25, BMD26, BMD41, BSuE47
 Diop, Mamadou–**BSuE60**
 Dirckx, Joris J. J.–BWC5, JMA11
 Dixit, Sanhita–BMD69, **BSuE27**, **BTuD4**, **BTuF59**
 Dobbs, Rhonda–BTuE4
 Dodt, Hans-Ulrich–**BTuA4**
 Dogariu, Arthur–**BTuF16**, **BTuF8**
 Dong, Chen Yuan–BTuF62
 Dorin, Maxine H.–BTuD7
 Dorshow, Richard B.–BSuA5
 Dottery, Edwin L.–LThC4
 Doty, Jim–LMB3
 Douek, Michael–BSuE13, BSuE14
 Douplik, Alexandre–**BTuE8**
 Drake, Tyler–**BMD81**
 Dreizler, Andreas–**LWB2**, LWB5, LWC
 Drexler, Wolfgang–**BMB**, BMB3, BMB5
 Drezek, Rebekah–**BWA**, BSuE7, BTuF12
 Drsek, Filip–BMD57
 Du, Congwu–**BTuE3**, **BTuF65**, BWC2
 Duan, Zhihui–DMA1
 Ducros, Nicolas–**BMD25**
 Duduran, Turgut–BSuE56
 Dufour, Marc L.–BMD83
 Dumitrescu, Cosmin–JMA23
 Dunsby, Christopher–BWD2, BWE6
 Durduran, Turgut–BSuB1, BSuD2, **BSuD3**, BSuD5, BSuE16, BSuE55, BTuF35
 Durr, Nicholas J.–BTuF37
E
 Eames, Matthew E.–**BMD36**, BSuE30, **BSuE35**
 Eberhard, Dietmar–DWB7
 Ebert, Bernd–**BTuF19**
 Ebert, Volker–**LMA2**, **LMB**, LMB1
 Edlow, Brian L.–BSuD3, BSuD5
 Eftekhar, Ali A.–BMD31
 Ehn, Andreas–LWC5
 Einarsdóttir, Margrét–BSuE67
 Ekstrom, Leeland–BMD5
 El-Naggar, Adel–BTuD1
 Elackattu, Alphi–BTuD2, BTuD6, BWD3
 Elbert, Thomas R.–BMD21
 Elgawadi, Amal–BWC4
 Elias, Sjoerd–BSuF3
 Elliot-Lai, Caroline–BTuC2
 Elliott, Jonathan–BSuE60
 Elson, Daniel S.–BWE6
 Ellwell, Clare E.–BSuE76, BSuE77, BSuE79
 Emge, Darren–LThA1
 Enfield, Louise C.–**BSuE13**, BSuE14, BSuE15
 Epshtein, Haim–BTuF5
 Ercan, Ayse E.–BSuE78
 Erdmann, Rainer–**BMD43**

Erdoğan, Sinem B.–BSuE62, **BSuE64**,
BWC3
Erlich, Marcelo–BTuF32
Erts, Renars–BTuF27
Eseller, Kemal Efe–**JMA38**
Everdell, Nick L.–BSuE13
Eversole, Jay–LThA4, **LThB**

F

Faber, Dirk J.–BWD6
Fajardo, Claudia M.–**LWB4**
Falzon, Mary–BSuB8
Fan, Xudong–LThA3
Fang, Qianqian–**BMD24**, **BSuB2**, BSuB7
Fantini, Sergio–**BMD14**, BMD15, BMD42,
BTuE2
Farina, Andrea–BMD39, BSuE66, LTuC5
Faris, Gregory–BMD69, **BSuC**, BSuE1,
BSuE27, BSuE86, BTuD4,
BTuF59, **BWG3**
Farooq, Aamir–LWC2
Farrell, Thomas J.–BWE5
Farrow, Roger L.–LMC3, LTuA3
Farshchi, Salman–BSuE81
Faure de Pebeyre, Irène–BTuF58
Favicchio, Rosy–**BWE3**, BWE4
Fei, Y. Y.–BTuF53
Feld, Michael–**BTuA3**, BTuD2, BTuD6,
BWD3
Feldkhun, Daniel–**BMF4**
Fels, Lueder–BSuF3
Ferguson, R. D.–BWF6
Fernandez, Christy A.–**BTuF15**
Fernández, Enrique J.–BMB3
Ferrante, A.–BWF6
Ferrante, Simona–BSuE58
Ferrigno, Giancarlo–BSuE58
Fertein, Eric–**JMA36**
Fève, Jean-Philippe–LTuA3
Finikova, Olga S.–BMF7
Fink, Manfred–**LTuB3**
Finlay, Jarod C.–BSuD2
Fischer, Marc–LTuA1
Fischer, Thomas–BTuF19
Fleming, Christine P.–**BMD88**
Flesch, Hervé–BMD84
Flexman, Molly L.–BSuB5
Flueraru, Costel–BMD86
Fojt, Wojciech–BWF1
Folestad, Staffan–LTuC4
Foltynowicz, Aleksandra–**LTuA5**
Fong, Christopher J.–BSuB5
Ford, Timothy–BTuF57
Först, Michael–BMD90
Försth, Mikael–LWC3
Fortier, Simon–BMD28
Fortin, Michel–BWB4
Fourmentin, Marc–**JMA36**
Foust, Amanda J.–BME5
Fox-Lloyd, Sarah–BSuE79
Franceschini, Maria Angela–BMD2,
BMD5, BSuD1, BSuD4, BSuE72,
BTuE1, BWC5
Frangos, Suzanne–BSuD5
Frank, Jonathan H.–LWB3
Frank, Matthew–DMB3
Franke, Gesa L.–BMD40
Frassati, Anne–**BSuE47**
Fratz, Markus–DMC7, **DWB7**
French, Paul–BWD2, BWE6
French, P. J.–BSuE66

Freskos, John N.–BSuA5
Fried, Alan–LTuA2
Fried, Nathaniel M.–**BTuF2**
Fu, Kun–BSuE7
Fuji, Toshie–BMD74
Fujii, Mamiko–**BMD37**
Fujii, Tomohiko–**JMA12**
Fujimoto, James G.–BWC7, BWF8
Fukuma, Yasufumi–BMD71
Fulghum, Steve–BTuA3
Fung, Jerome–DTuB1
Furukawa, Shunsuke–BTuF21

G

Gabolde, Pablo–BMD61, DTuC5
Gagnon, Louis–**BSuE73**
Galbraith, Catherine G.–BTuA2
Galbraith, James A.–BTuA2
Galindo, Luis–BTuD2
Gallagher, George–BTuD2
Gallant, Pascal–BWB4
Gamelin, John–BSuE25, BWG1
Gandjakhche, Amir–BMD44, BTuD8,
BTuF48
Gao, Feng–BMD33, BMF7
Gao, Jean–BTuF44
Gao, Wen–BTuF18
Gao, Xiaohu–**BWA3**
Garcés-Chávez, Veneranda–BMD60
Garcia, Javier–DMA6
Garcia-Sucerquia, Jorge–DTuC7
Gardner, Charles–LThB1
Gareau, Daniel S.–**BTuB3**, **BTuF66**
Garnacho, Carmen–BMF7
Garofalakis, Anikitos–BWE3, BWE4
Ge, Jijia–**BMD48**, BMD49
Gelsing, Paul J.–**BMF2**, DWB6
Georgakoudi, Irene–BMD54, **BTuA**,
BTuA3, BTuF9
Georges, Didier–BSuE47
Gessenhardt, Christopher–LWB1
Giacomelli, Michael–**BTuF6**, BTuF7, **JMA7**
Gibbs, Ashley D.–BSuE27
Gibbs-Strauss, Summer L.–BWE7
Gibson, Adam P.–BSuE13, **BSuE14**,
BSuE15, BSuE49
Giel, Dominik M.–DMC7, DWB7
Gillenwater, Ann–BSuF2, BTuB4, BTuD1,
BTuF18, **BWA2**
Gillette, Jennifer–BTuA2
Gimzewski, James K.–DMB3
Giovannini, Hugues–BMD57
Girouard, Audrey–BMD14
Gisler, Thomas–**BMD21**
Gitin, Yakov–BTuF14
Giusto, Arianna–BSuB3
Godavarty, Anuradha–BMD19, BMD48,
BMD49, BSuE74
Goldberg, Lew–LTuA3
Goltsov, Alexander–BTuF8
Gomes, Andrew–BTuF10, **BTuF40**
Gonzalez Trujillo, Jorge Carlos–**BSuE53**
Gooijer, Cees–LTuB5
Gord, James–**JMA41**, **LTuC**, LTuC2,
LWA1, LWA2, LWA3, **LWA4**
Gorga, Chris–BMD12
Gossage, Kirk–BWE1
Gottfried, J. L.–LThC1
Graaff, Reindert–**BSuE52**
Graber, Harry L.–BMD1, BSuE57, **BSuE61**
Grady, M. Sean–BSuD5

Gramer, Markus–BSuE76
Grant, David–BWD2
Grant, P. Ellen–BSuD1, BSuE72
Grebe, Reinhard–BME4
Greenberg, Charles S.–BSuE86
Greenberg, Joel H.–BSuD3, BSuD5
Greenblatt, Ellen M.–BSuE70
Greene, Heather M.–BTuD7
Gregori, Giovanni–BMD75
Grillone, Gregory–BTuD2, BTuD6, BWD3
Grobmyer, Stephen R.–BSuE10
Grosenick, Dirk–BMD43, BMD45
Gu, Min–**DMB6**, **DTuB**
Gu, Xuejun–**BSuE39**, **BSuE40**
Guenther, Bobby D.–BTuF15
Guerrero, Bruno–BWE8
Guicheteau, Jason–LThA1
Gulsen, Gultekin–BSuE69
Gunn-Moore, Frank–BMD60
Gupta, Sharad–**BTuF9**

H

Hadway, Jennifer–BSuE68
Haensse, Daniel V.–BWG2
Hagen, Axel–BMD43, BMD45
Hahn, Joonku–**DWB3**, DWB4
Hahn, Stephen M.–BSuD2
Hajnal, Jo V.–BWE6
Hall, David J.–**BSuE81**
Hämäläinen, Matti S.–BWC5
Hammer, D. X.–BWF6
Hampp, Norbert–BTuC1, BTuF1
Han, P. Y.–LTuC1
Han, Sen–DMB3
Han, Xiaoxing–**BTuF60**
Handa, Hitesh–BSuE11
Hanson, Ronald K.–**JMA28**, LWC2
Harbers, Rick–BSuF3
Harmon, Kameron–BWG3
Haroon, Zishan–BSuE27, BSuE86
Harris, D. A.–LThB2
Haruna, Masamitsu–BMD74
Hasabou, Nahla–BTuC6
Hassan, El B.–**JMA32**
Hassan, Moinuddin–BMD44, **BTuD8**,
BTuF48
Haushalter, Jeanne P.–BSuE86
Haylett, Daniel R.–**JMA28**
Headrick, Jeffrey M.–**LThB4**
Hearn, Austen–**BTuF51**
Hebden, Jeremy C.–BSuE13, BSuE14,
BSuE15, BSuE49
Hegde, Poornima–BTuD5
Heitmann, Uwe–LTuB2
Henderson, Angus J.–**LMC2**
Heng, Xin–BMF5
Hennelly, Bryan M.–DTuA5
Henry, Scott M.–BSuA4
Herken, Hasan–BSuE63
Hermann, Boris–**BMB3**, BMB5
Hermann, Kay-Geert–BTuF19
Herrera, Jorge A.–DTuC6
Hervé, Lionel F.–**BMD26**
Hielscher, Andreas–**BMC**, BMD34,
BMD40, BSuB5, **BSuC1**, BSuD6,
BSuE39, BSuE40, BSuE59,
BSuE85, BTuF67
Higbie, James M.–**JMA44**
Hilliard, Aisha–BTuF16

Hillman, Elizabeth M.–BMC7, **BME2**,
BSuD7, BSuE34, **BSuF**, BTuF30,
BWE1, BWG7
Hillman, Timothy R.–BMD87
Hiltunen, Petri–BTuF36
Hincapie, Diego A.–**DTuC7**
Hinds, M. F.–BTuC4
Hirono, Taisuke–**BTuF31**
Hirshfield, Leanne H.–BMD14
Hochstrasser, Robin M.–BMF7
Hodges, Joseph T.–**LTuB4**
Hoenders, Bernhard J.–BSuE52
Hofer, Bernd–BMB3, BMB5
Hoffman, Allan S.–BSuA4
Hoffman, Paul–LMC2
Höfler, Heinrich–DMC7
Hoge, Rick D.–BSuE73
Hohmann, Konrad–LThC3
Hokoma, Leslie A.–JMA28
Holfeld, Benjamin A.–BTuF37
Holl, Gerhard–LThC3
Holley, Richard–BTuF51
Hoogheem, Jay L.–BTuC6
Hoops, Alexandra A.–**LMC3**, LTuA3
Hornkohl, James O.–JMA27, JMA45
Hovde, Chris–**JMA40**, **JMA44**
Hovhannisyann, Vladimir A.–**BTuF62**
Hoying, James–BTuF39
Hronik-Tupaj, Marie C.–**BMD54**
Hsiang, David–BSuE69
Hsieh, Wang-Ta–**DTuB4**
Hsu, Paul–LWA4
Hu, Xin-Hua– BSuE51, BTuF13, BTuF26
Hu, Ying–BSuE7, **BTuF12**
Hu, Zhilin–**BMD78**, BTuF54
Huang, Billy–BTuB3
Huang, Fei–BWG1
Huang, Minming–BSuE21
Huber, Robert–BWF8
Hughes, Michael–BMD73
Huh, Yong-Min–BMD65
Hui Koh, Peck–BSuE79
Huijing, Peter A.–BSuE64
Hunter, Martin–BTuF9
Huppert, Theodore J.–BMD3, **BSuD8**
Hurt, Hallam H.–BTuF35
Hutchins, Michael–BSuE82
Hwang, Dong-Choon–JMA1
Hyatt, Christopher J.–BMC3
Hyde, Damon E.–**BSuE26**

I

Iftimia, Nicusor V.–BWF6
Ingram, Leonard–JMA32
Ionita, Iulian–**BMD92**
Iranmahboob, Amir K.–BME2, **BSuE34**
Iwai, Hidenao–BMD59
Iwakuma, Nobutaka–BSuE10
Iyers, Malini–BTuD5
Izatt, Joseph–**BMB1**, BWC8, BWF2, BWF5,
BWF7
Izzetoglu, Meltem–BMD20

J

Jabbour, Rabih–LThA1
Jacob, Robert J. K.–BMD14
Jacobs, Kenneth M.–BTuF26
Jacobson, Wells–LThA4
Jadczak, Chris–BTuF4
Jährling, N.–BTuA4
Jaillon, Franck–BMD12

Jameel, Mohammed–BTuC6
Jansen, Duco–BTuE5
Javier, David–BSuF2
Jeffries, Jay B.–**JMA28**, **LWC2**
Jelzow, Alexander–BSuC4
Jeong, HyeonSeop–JMA4
Jiang, Huabei–BSuE10, BSuE28, BSuE29,
BSuE51, BSuE83, BSuE84
Jiang, Naibo–LTuA4
Jiang, Shudong–BMC6, BSuB4, **BSuC3**,
BSuE17
Jiang, Zhen–**BWG4**
Jiao, Shuliang–BMB4, **BMD72**, BMD75
Jiao, Yunxin–BMD72
Jockovich, Maria E.–BMB4
Johansson, Ann–BWB5
Johansson, Jonas–LTuC4
Jonathan, Enock–**BMD76**
Jones, Linda R.–BTuF45
Jones, S. G.–JMA40
Joshi, Sachin–JMA23
Jourdain, Pascal–BMD58
Jung, Jae-Hyun–**DTuA2**, JMA16, JMA2
Jung, Michael J.–BTuC6

K

Kabani, Sadru–BTuD2
Kabbani, Wareef–BTuF43, BTuF44
Kacprzak, Michal–**BMD46**, **BMD47**
Kah, James C. Yong.–**BSuE8**
Kajić, Vedran–BMB5
Kaldvee, Billy–**LWC5**
Kane, Daniel J.–BMD85
Kane, Mark–BTuD5
Kang, Hoonjong–**DWA4**
Kang, Jin-Mo–**JMA15**
Kang, Wei–**BMD77**, BTuF54
Kano, Hiroshi–BMD62, BMD63
Kao, Chris–BTuE5
Kaplan, David–BMD54, BTuF9
Kara, Ercan–BWC3
Karahan, Esin–**BMD6**, BWC3
Kareta, Margareta–BMD77
Kashyap, Dheerendra–**BSuE80**, BTuF43,
BTuF44
Kasner, Scott E.–BSuD3
Kassi, Samir–JMA43
Katan, Matilda–BWD2
Kato, Yuji–BMD35
Katsura, Takushige–BTuF21
Katz, Barak–**JMA13**
Kaundinya, Gopinath–BMD13
Kawa, S. R.–JMA19, LMA4
Kawaguchi, Hiroshi–**BSuE38**
Kawaguchi, Hideo–BTuF21
Kawanaka, Akira–BMD37
Kaz, David–DTuB1
Keenlside, Lynn–BSuE60
Kehrlöfer, Daniel–BTuC1
Keller, David–LThA4
Keller, Matthew D.–**BSuB6**
Kelley, Jude A.–LThB4
Kelley, Mark C.–BSuB6
Kempner, Joshua–BMD30
Kennedy, Gordon–BWD2
Kepshire, Dax–**BSuE82**, BTuF3
Kerstel, Erik–**LMB2**
Keshtgar, Mohammed–BSuB8, BSuE13
Khalil, Michael–BWG1
Kham, Keetaek–DWA2, DWA5
Khan, Nadeem–BSuC3

Khayat, Mario–BSuE82, BWE8
Khamaladze, Alexander–**DMB5**
Khosroshahi, Mohammad E.–**BSuE12**
Khurana, Mamta–**BWB3**
Kieffer, Jean-Claude–**BWB2**
Kienle, Alwin–**BSuE48**, BSuE66, LTuC5
Kilger, Alex–BSuE55
Killinger, Dennis K.–BTuF33, JMA24,
JMA34, **LMC**, LThA5, LThB5,
LThC4
Kim, Antony–BTuC7
Kim, Beop-Min–BMD22
Kim, Chang-Keun–**JMA1**
Kim, Chul S.–JMA40
Kim, Daekeun–**BMD53**
Kim, Daesuk–**DTuC1**
Kim, Donghyun–BMD65
Kim, Dong-Wook–DWA2, DWA6, JMA10,
JMA9
Kim, Eun-Soo–JMA1, JMA14
Kim, Hanyoung–**BMD69**, BTuD4
Kim, Hee-Cheol–**BTuC1**, BTuF1
Kim, Hwa-Sung–JMA10
Kim, Hwi–JMA3
Kim, Hyun K.– **BMD34**, BMD40, **BSuE85**,
BTuF67
Kim, Joohwan–DTuA2, JMA15, JMA16,
JMA2
Kim, Kyujung–**BMD65**
Kim, Meeri N.–BSuD3, **BSuD5**, BTuF35
Kim, Mijin–JMA40
Kim, Myung–DMB2, DMB5, DTuB2,
DTuB6, **DWB**, **DWB2**
Kim, Nam–**DTuA6**, **JMA4**
Kim, Seung-Cheol–JMA1, JMA14
Kim, Sungjee–BSuE2
Kim, Young–BTuF40
Kim, Young L.–BTuC6
Kim, Young R.–BMD2
Kim, Youngmin–DTuA2, **JMA2**
Kim, Yunhee–JMA2
Kinnius, Paul J.–LWA1, LWA2
Kino, Gordon S.–BWC6
Kirimli, Ceyhan E.–**BSuE62**
Kirkpatrick, Nathaniel D.–BTuF39
Kissel, Thilo–**LWB5**
Kissler, Johanna–BMD21
Kittler, Christof–LWB2
Klemme, Dietmar–BMD43
Klibanov, Michael V.–**BSuE33**
Klifa, Catherine–BSuE69
Kliner, Dahv A. V.–LMC3, **LTuA3**
Klingbeil, Adam E.–LWC2
Klose, Alexander D.–**BMC8**, BSuE42,
BSuE59, **BTuF67**
Klose, Christian D.–**BSuE59**
Koban, Leonie–BMD21
Kobat, Demirhan–**BMF6**
Kobayashi, Hisataka–**BMA3**
Koch, Edmund–BWF4
Kocjan, Gabrijela–BSuB8
Koehler, Thomas–BMD23, BSuF3
Koenig, Anne–BMD26
Koeth, Johannes–LTuA1
Koh, Dalkwon–BMD22
Kohl-Bareis, Matthias–BSuE76
Kojima, Jun–**JMA42**
Kollias, Nikiforos–BTuF17, BTuF50
Konecky, Soren D.–**BMC5**, BSuB1, BSuE18,
BSuE55
Kongolo, Guy–BME4

Konrad, Peter-BTuE5
Kopans, Daniel-BMD24, BSuB2, BSuB7
Koplow, Jeffrey P.-LTuA3
Korgel, Brian A.-BTuF37
Kosterev, Anatoliy A.-LMA5, LMB4
Kostin, Yu. O.-BMD80
Kostuk, Raymond-BMF2, DWB6
Kotilahti, Kalle-BTuF36
Kotlyar, Alina-BSuE4
Kotz, Kenneth T.-BSuE27
Kowalczyk, Andrzej-BWF1
Kozel, Frank A.-BTuE4
Krainak, Michael A.-JMA19, LMA4, LMC5
Kray, Stefan-BMD90
Kreuzer, Jurgen-DTuC7
Krolicki, Leszek-BMD46
Kromin, Alexey-BTuF10
Krüger, Alexander-BWF4
Kubota, Akira-BMD71
Kuebler, Wolfgang-BWF4
Kuech, Thomas F.-BTuF55
Kühn, Jonas-DTuC2, DTuC3
Kukhtarev, N. V.-DWB1
Kulatilaka, Waruna D.-LWB3
Kulp, Thomas J.-LThA2, LTuA3
Kumar, Sunil-BWD2
Kumaravel, M.-BSuE22
Kunte, Dhananjay-BTuC5
Kuo, Chaincy-BMC1, BSuE46
Kuo, Ming-Kuei-DTuB4
Kurachi, Cristina-BTuD1
Kurtzman, Scott-BTuD5
Kurz, Heinrich-BMD90
Kute, Tim-BTuF16
Kuwabara, Mitsuo-BMD74

L
Laine, Romain-BWE6
Lam, K. S.-BTuF53
Lamouche, Guy-BMD83
Landry, J. P.-BTuF53
Langkopf, Martin-BMD43
Lapin, P. I.-BMD80
Lappas, Petros-JMA28
Larson, Timothy-BTuF37
Las Heras, Facundo-BWA4
Lasser, Tobias-BTuF58
Lau, Condon-BTuA3, BTuD2, BTuD6, BWD3
Lauer, Christian-LMA2
Laughney, Ashley M.-BSuE17
Laurendeau, Normand M.-LWA3
Lauritsen, Kristian-BMD43
Lebedev, Artem Y.-BMF7
Leblond, Frederic-BMD28, BSuE82
Lech, Gwen-BSuE56
Leclair, Sébastien-BWB4
Ledbetter, Micah P.-JMA44
Lee, Byounggho-DTuA2, DWB3, DWB4, JMA15, JMA16, JMA2, JMA3
Lee, Byung-Gook-JMA8
Lee, Keong-Jin-JMA1
Lee, Kijoon-BMC5, BSuB1, BSuE18
Lee, Minah-BMD22
Lee, Nam S.-BSuA5
Lee, S.-BTuC4
Lee, Sang Bong-BTuD8
Lee, Seungduk-BMD22
Lee, Seung-Hyun-DWA2, DWA5, DWA6
Lee, Seonkyung-BWB

Lee, Ting-Yim-BSuE60, BSuE68
Legge, Michael-LTuA1
Leipertz, Alfred-LWA5
Lemberg, Vladimir-BTuF4, BTuF5
Lempert, Walter R.-LTuA4
Leng, Yuxin-BTuB5
Lengenfelder, Jean-BMD1
Leproux, Anais-BSuF3
Lesage, Frédéric-BMD7, BSuE73
Leung, Terence S.-BSuE76, BSuE77
Levene, Michael J.-BMD70, BWC1
Levenson, Richard M.-BWE1
Levin, Ken-BTuF2
Levine, Josh-BSuD5
Levkovets, Inna-JMA26
Lewicki, Rafal-LMB3
Lewis, James W. L.-JMA22
Li, Bo-LWC3
Li, Dong-BTuF38
Li, Haowen-LThB2
Li, Hyung-Chul O.-DWA2, DWA5
Li, Jun-BMD21
Li, Xiaoli-BTuB5
Li, Xingde-BMD89, BSuA4, BTuB, BTuB5
Li, Yang-BSuB5
Li, Yongbiao-BMD56, BTuB3
Li, Zhongshan-LWC3
Licha, Kai-BSuF3, BTuF19
Licht, Daniel J.-BTuF35
Liebert, Adam-BMD46, BMD47, BMD9
Liese, Julia-BTuC1
Lihachev, Alexey-BTuF27
Lilge, Lothar-BSuE70, BSuE71, BTuC, BTuC7, BWA4, BWB1
Lim, Daryl-BMD55, BMF3
Lim, S.-BTuF15
Lim, Yongjun-DWB3, DWB4
Lin, Bevin-BTuF42
Lin, Wei-Chiang-BTuF24, BTuF41
Lin, Yu-Chih-DTuB3
Linne, M.-JMA33, LTuC3
Lipiäinen, Lauri-BTuF36
Liu, Hanli-BMD13, BMD29, BMD50, BSuE33, BSuE80, BTuE4, BTuF43, BTuF44
Liu, Jingxuan-BWD4
Liu, Jonathan T. C.-BWB6
Liu, Linbo-BTuF63
Liu, Ning-BMD42
Liu, Shih-Ki-BSuE55
Lo, Justin Y.-BTuF55
Lo, Wen-BTuF62
Lo, Yuan-BMF2
Lobintsov, A. A.-BMD80
Loew, Leslie M.-BTuF30
Lomnes, Stephen J.-BSuF1
Lozovoy, Vadim V.-BMD51, LThB2
Lu, Jun Q.-BTuF13, BTuF26
Lucht, Robert P.-JMA41, LMC4, LWA1, LWA2, LWA3
Luijten, Peter-BSuF3
Lunazzi, Jose J.-DTuA4
Luo, J. T.-BTuF53
Luo, Yuan-DWB6
Luo, Zhongchi-BTuE3, BWC2
Lurie, Kristen-BTuF3

M
Mihçak, Kıvanç-BMD4
Ma, Guobin-BWE8
Ma, Lin-JMA17

Ma, Weiguang-LTuA5
Macdonald, Rainer-BMD43, BMD45, BSuC4, BTuF19
MacDonald, Daniel J.-BMD89, BTuB5
MacRobert, Alexander J.-BTuC2
Maczewska, Joanna-BMD46
Magalhães, Daniel S. F.-DTuA4
Magee, Paula-BTuF16
Magee, Tony-BWD2
Magistretti, Pierre-BMD58, DTuB5
Mahadevan-Jansen, Anita-BSuB6, BTuE5, BWD6
Mahoney-Wilensky, Eileen-BSuD5
Maire, Guillaume-BMD57
Major, James C.-BMB4
Majoros, Istvan J.-BSuE4
Majumder, Shovan K.-BSuB6
Maki, Atsushi-BTuF21
Makoui, Anali-BTuF33, LThA5
Mali, Willem-BSuF3
Malkowicz, S. Bruce-BSuD2
Malphurus, Jonathan D.-BTuE5
Mamalaki, Clio-BWE3, BWE4
Mandella, Michael J.-BWC6
Maniewski, Roman-BMD46, BMD47
Mann, Christopher J.-DTuC4
Manoharan, Vinodhan N.-DTuB1
Mansfield, James R.-BWE1
Mao, Guangzhao-BSuE11
Mao, Jianping-JMA19, LMA4
Mao, L.-BTuE8
Mao, Youxin-BMD86
Mardirossian, Vartan-BTuD2
Margalit, Ofer-DMA6
Margallo-Balbás, Eduardo-BSuE66
Margrain, Tom-BMB3
Mariampillai, Adrian-BWB3
Mariano, Laura-BTuD5
Marinakos, Stella-BWF5
Marjono, Andhi-BMD33
Markel, Vadim A.-BMC5, BSuE45
Marquet, Pierre-BMD58, DTuB5, DTuC3
Martelli, Fabrizio-BMD39, BSuE37, BWC6
Martin, Jeffrey M.-BTuE2
Maru, Dipen-BTuD3
Marzan, Tim A.-BSuA5
Masciotti, James-BMD40, BSuE85
Maslowski, Piotr-LTuB4
Massonneau, Marc-BSuE87
Mathker, Aditya-BTuF43, BTuF44
Matiukas, Arvydas-BMC3, BSuC5
Matthew, Howard W.-BSuE11
Matthews, Dennis L.-BTuF20, BTuF42
Maurudis, Anastasios-BWG1
Mayor, Shane D.-JMA20
Mayorga-Cruz, D.-JMA25
Mazzulli, Tony-BWA4
McCain, Scott T.-BTuF15
McDowell, Emily J.-BMD79, BSuE32
McElhinney, Conor P.-DTuA5
McEnnis, Caroline-LThC2
McGee, Sasha-BTuA3, BTuD2, BTuD6, BWD3
McGhee, Ewan-BWD2
McGinn, Joseph-LThA4
McGinty, James-BWD2, BWE6
McGorty, Ryan-DTuB1
McKeown, Craig-BMB4
McNeil, Jason-BSuE10
Meier, Wolfgang-LWB2
Meissner, Sven-BWF4

Mendez Gamboa, Jose Angel-BSuE53
Meriläinen, Pekka-BTuF36
Mermut, Ozzy-BWB4
Merritt, Sean I.-BSuE69
Mertens, Michael-BWF4
Mertz, Jerome-BMD55, BMF3, BTuF57,

BWD

Mesquita, Rickson C.-BMD3
Meszoely, Ingrid M.-BSuB6
Meyer, Heiko-BWE4
Meyer, Jerry R.-JMA40
Meyer, Terrence-LTuC2, LWB
Mhaisalkar, Subodh G.-BSuE8
Michels, Rene-BSuE48
Michelsen, Hope A.-JMA33
Miles, Richard B.-LWC4
Miller, Charles E.-LTuB4
Miller, Eric-BMD24, BSuB2, BSuE20,
BSuE26
Miller, J. Houston-LTuB
Min, Sung-Wook-JMA3
Mincu, Niculae-BSuE82
Mirkovic, Jelena-BTuA3, BTuD2, BTuD6,
BWD3

Mishina, Tomoyuki-DMC1
Mitina, Natalia-BSuE9
Mitrea, Bogdan G.-BSuC5
Miwa, Mitsuharu-BMD59
Miyamoto, Yoko-DMA1
Miziolek, Andrzej-LThC1
Mohajerani, Pouyan-BMD30, BMD31
Mohler, Emile R.-BSuE56
Molteni, Franco-BSuE58
Monahan, Tim-BTuF3
Montfort, Frédéric-DMA4
Moore, Laura-BTuC3, BTuF22
Moore, Richard-BMD24, BSuB2, BSuB7
Moore, Sean W.-LTuA3
Morales, Alma R.-BSuE91
Mordmüller, Mario-JMA29
Moriyama, Eduardo H.-BTuC7, BWB3
Morley, Bruce-JMA20
Morofke, D.-BTuE8
Morosawa, Atsushi-BWF3
Morris, Michael D.-BWD5
Morris, Norma-BSuE15
Mortelmans, Kristien E.-JMA28
Mosse, Charles A.-BSuB8, BTuC2
Moulton, Peter F.-LMC1
Mounier, Denis-DMC4
Mourant, Judith R.-BTuD7, BTuF13
Moussazadeh, Philip-BTuF30
Muehlemann, Thomas L.-BWB2
Muehlschlegel, Susanne-BSuD4
Mujat, Mircea-BWF6
Muldoon, Timothy J.-BTuB4
Mulhall, Philip A.-LMB5
Münir, Kerim-BWC3
Munro, Ian-BWD2, BWE6
Munson, C. A.-LThC1
Muro, Silvia-BMF7
Muschol, Martin-BMD16
Musgrove, Cameron-BSuE31
Mutyal, Nikhil N.-BTuF10

N

Naeni, Jafar G.-BTuF16
Naik, Sameer V.-LMC4, LWA3
Nakayama, Kiyoshi-BMD37
Namita, Takeshi-BMD35
Näsi, Tiina-BTuF36

Naughton, Thomas J.-DTuA5
Navab, Nassir-BTuF58
Navas, Jinna A.-BME5
Neel, Victor A.-BTuF49
Nehal, Kishwer-BTuB3
Nehmetallah, G.-DWB1
Neil, Mark-BWD2, BWE6
Nelson, Andrew-BTuF49
Nelson, Matthew P.-LThB1
Nemes, László-JMA27, JMA45
Netz, Uwe-BMD34, BSuD6, BSuE59
Neumann, William L.-BSuA5
Nevsehrlirli, Deniz-BSuE78
Newaz, Golam M.-BSuE11
Newmark, Judith A.-BMD66
Nguyen, Quang-Viet-JMA42
Nguyen, Thu H.-BSuE74
Ni, Ping-DMC2
Nida, Dawn L.-BTuB4
Nielsen, Tim-BMD23, BMD45, BSuE43,
BSuE44, BSuF3
Nieminen, Timo A.-BTuF12
Ninck, Markus-BMD21
Nioka, Shoko-BSuE92
Nishida, Kohji-BMD71
Nishida, Yoshiki-JMA21
Nishimura, Goro-BTuF29
Nissila, Ilkka-BWC5
Nocetti, Luca-BMD8
Noiseux, Isabelle-BWB4
Noponen, Tommi E.-BTuF36
Norris, Theodore B.-BSuE4
Nothdurft, Ralph E.-BWE2
Ntzachristos, Vasilis-BSuE26, BWE
Numata, Kenji-LMC5
Nussbaum, Ethne L.-BWA4
Nwanguma, Onyeoziri R.-BSuE57
Nyman, Jeffry S.-BWD6

O

O'Donoghue, Geoffrey-BTuD6, BWD3
O'Hara, J. A.-BTuC4
Obrig, Hellmuth-BME1, BSuC4
Oh, Daniel B.-JMA40, LMA
Oh, Jung Hun-BTuF44
Ohmi, Masato-BMD74
Okada, Eiji-BSuE38, BTuF21
Okano, Fumio-DTuA1
Okawa, Shinpei-BMD33, BSuE41, BTuF31
Okui, Makoto-DMC1
Okumura, M.-LTuB4
Olcmen, Semih-JMA23
Olenych, Scott-BTuA2
Olivo, Malini C.-BSuE8
Onaral, Banu-BMD20
Öncü, Bedriye-BWC3
Öner, Özgür-BWC3
Onural, Levent-DWA1
Orduna, Juan M.-BSuE27
Orlandi, Marco-LTuC5
Ou, Wanmei-BWC5

P

Pache, Christophe-DTuC2
Pal, Avishekh-LThB5, LThC4
Palanco, Santiago-JMA30, LThC5
Palmer, Gregory M.-BTuF55
Palyvoda, Olena-BSuE11
Pan, Chia-Pin-BMD69, BSuE1, BSuE86
Pan, Min-Cheng-BMD38, BSuE54
Pan, Min-Chun-BMD38, BSuE54

Pan, Rubin-BTuF65
Pan, Yingtian-BTuF65, BWC2, BWD4
Pan, Yinsheng-BTuF54
Panasyuk, George Y.-BMC5
Pandian, P. S.-BSuE22
Pantong, Natee-BSuE33
Papamatheakis, Sifis-BWE3
Parameswaran, Krishnan-LMA1, LMB5
Parigger, Christian G.-JMA22, JMA27,
JMA35, JMA45

Park, B. Hyle-BTuE7
Park, Gilbae-JMA16
Park, Jae-Hyeung-DTuA3, JMA4
Parlapalli, Renuka-BMD13, BMD50
Passaglia, Chris L.-BTuE7
Patil, Chetan A.-BWD6
Patnaik, Anil K.-JMA41
Patterson, Brian D.-LWB3
Patterson, Michael S.-BWB4, BWE5
Patwardhan, Sachin-BWE2
Paulsen, Keith D.-BMC6, BSuB4, BSuE17,
BSuE36, BWE7

Pava, Diego-DMA3
Pavani, Sri Rama Prasanna-DMA2
Pavillon, Nicolas-DTuC3
Pearl, Roy-DMA6
Pease, Tamara-LTuB3
Pedrocchi, Alessandra-BSuE58
Pei, Yaling-BMD1, BSuE61
Peltié, Philippe-BMD26, BMD41
Perez Cortes, Mario-BSuE53
Pertsov, Arkady-BMC3, BSuC5, BTuF30
Pessel, Martin-BSuF3
Peswani, Disha-BSuE80, BTuF43, BTuF44
Peter, Jörg-BSuE50, BSuE89
Peterson, Kristen A.-BMD85
Peyrin, Françoise-BMD25
Pfeifer, Kent B.-LThB4
Piao, Daqing-BSuE30, BSuE31, BWG4
Picart, Pascal-DMC4, DMC5
Pierce, Mark C.-BTuB4
Piestun, Rafael-DMA2
Pifferi, Antonio-BMD11, BMD39, BMD8,
BSuB3, BSuE37, BSuE66,
BSuE75, BSuE88, BWC6, LTuC5

Pike, Pavlina J.-JMA35
Piksarv, Peeter-JMA6
Pistey, Robert-BTuD2
Pivetti, Christopher D.-BTuF20
Pletcher, Timothy-LThA4
Plutov, Denis-JMA24
Podoleanu, Adrian-BMD73, BWF
Pogue, B. W.-BMC4, BMC6, BMD36,
BSuB4, BSuC3, BSuE17, BSuE35,
BSuE36, BSuE82, BTuC4,
BTuF3, BWD5, BWE7

Pohlkötter, Andreas-JMA29, LThB3
Ponder, Steven L.-BSuE74
Poon, Ting-Chung-JMA3
Porat, Noga-BTuF32
Porro, Carlo A.-BMD8
Porter, Jason M.-JMA28
Potcoava, Mariana C.-DMB2
Potma, Eric O.-BWD7
Pourrezaei, Kambiz-BMD20
Považay, Boris-BMB3, BMB5
Powers, Tamara M.-BTuD7
Pradhan, Prabhakar-BTuC5, BTuC6
Prahara, S. C.-DWB1
Prajapati, Suresh-BMD29, BMD50
Preyer, Norris W.-BTuF45

Pritchard, Caroline–BSuE77
Pritzker, Kenneth P. H.–BWA4
Pruss, Christof–LWB1
Psaltis, Demetri–BMF5, DMA5
Psycharakis, Stylianos–BWE4
Pu, Ye–DMA5
Puliafito, Carmen A.–BMB4, BMD72,
BMD75
Pun, Suzie H.–BSuA4
Purev, Sukhbat–JMA14
Putt, Mary E.–BSuD3
Puzinauskas, Paul–JMA23

Q

Qi, Xin–BMD77, **BTuF54**
Qu, Jianan Y.–**BTuF38, BTuF47**
Quan, Kara J.–BMD88
Quon, Harry–BSuE55

R

Radhakrishnan, Harsha–**BMD5, BTuE1**,
BWC5
Radosevich, Andrew J.–BME2, BTuF30,
BWG7
Rafferty, Elizabeth–BSuB7
Rajadhyaksha, Milind–BTuB3, BTuF56,
BTuF66
Rajaram, Narasimhan–**BTuF23**
Raman, Rajesh N.–**BTuF20**
Ramanujam, Nirmala–**BMA4, BSuB**,
BTuC3, BTuF22, BTuF55
Ranasinghesagara, Janaka–BTuF25
Ranji, Mahsa–**BSuE92**
Rappaz, Benjamin–BMD58, DTuB5
Ratner, Désirée–BSuD7
Ravicz, Michael E.–BTuB2
Rector, David–BME5, **BTuE6, BWC**
Reed, Jason–DMB3
Regalado, Steven–**BMD49**, BSuE74
Reichardt, Thomas A.–LMC3, LThA2,
LThB4, LTuA3
Reichle, René–LWB1
Reif, Roberto–**BTuF14**
Reisman, Charles–BMD71
Reivelt, Kaido–JMA6
Rendon, Augusto–BWB1
Reneker, Joseph W.–LMC4
Restrepo, Cesar–DTuC7
Restrepo, John F.–**DTuC6**
Restrepo-Martínez, Alejandro–DMB5,
DTuB2
Reynolds, Daryl–BTuF45
Rhodes, William T.–**DMA3**
Rice, Brad–BMC1, BSuE46
Rice, William–BMD54
Richards-Kortum, Rebecca–**BSuD, BSuF2**,
BTuB4, BTuD1, BTuD3, BTuF18
Richardson, Daniel R.–LMC4
Richardson, Martin–JMA30, LThC5
Richter, Dirk–**LTuA2**
Riedel, Wolfgang J.–DWB7
Riley, Jason–BMD44, BTuD8
Rinehart, Matthew T.–**JMA7**
Rinneberg, Herbert–BMD45, BSuE44
Ripoll, Jorge–BWE3, BWE4
Riris, Haris–LMA4, LMC5
Risby, Terence H.–LMB4, LMB5
Riza, Nabeel A.–BTuF64
Rizo, Philippe–BMD26, BMD41
Robichaud, David J.–LTuB4
Robichaud, Vincent–BMD32

Robitaille, Nicolas–BMD28
Robles, Francisco–BMD81
Roblyer, Darren M.–**BTuD1**
Roche-Labarbe, Nadege–**BME4**, BSuD1
Rodrigues, Matthew–**BTuF46**
Rodriguez, Victoria B.–BSuA4
Rodriguez-Díaz, Eladio–BTuF14
Rogers, Jeremy–**BTuF10**, BTuF40
Rojas, Manuel J.–BME5
Rollins, Andrew–BMD77, BMD78,
BMD88, BTuF54
Romanini, Daniele–JMA43
Romanowski, Marek–BSuA3
Rose, Jeremy–LThC4
Rosen, David L.–LMB5
Rosen, Joseph–DMA1, DMC3, JMA13
Rosen, Mark–BSuB1, BSuE16
Rosen, Richard–BMD73
Rosenfeld, Philip J.–BMB4
Rosowski, John J.–BTuB2
Rothenberg, Florence–BWC8
Rothman, Laurence S.–**LMA3**
Roy, Hemant K.–BTuC5, BTuC6
Roy, Sukesh–JMA41, LTuC2, **LWA1**,
LWA2, LWA3, LWA4
Rozhetskin, Dmitry D.–**BTuF4**
Ruggeri, Marco–**BMB4**, BMD75
Ruth, Albert A.–LTuB2
Ruvinskaya, Svetlana–BWC4, BWC7
Ryerson, Thomas B.–LTuA2
Rylett, R. J.–BSuE68

S

Sainsbury, Richard–BSuE13
Sakadžić, Sava–**BWC4**
Sakaguchi, Koichiro–**BTuF21**
Sakai, Tooru–BWF3
Salakhutdinov, Ildar–**BSuE11**
Salomatina, Elena–BTuF49
Sampson, David D.–BMD87
Sanders, Scott T.–**LWC1**
Sardini, Alex–BWE6
Sarmiento-Martínez, Oscar–**JMA25**
Sarunic, Marinko V.–BMD79
Sassaroli, Angelo–BMD14, **BMD15**,
BMD42, BSuE37, BTuE2
Sato, Manabu–BMD82
Sawosz, Piotr–BMD46, BMD47
Saxena, Vishal–**BMD17, BSuE65**
Sayli, Omer–BSuE78
Scepanovic, Obrad–BTuA3
Schade, Wolfgang–JMA29, LThB3, **LThC**,
LThC3
Schaefer, Z.–LTuC2
Schäfer, Jan–BSuE48
Schäfer-Hales, Katherine J.–BSuE90,
BSuE91
Scheel, Alexander–BSuE59
Schei, Jennifer L.–**BME5**, BTuE6
Schilt, Stephane–LMA5
Schippers, Wolfgang–**LThC3**
Schirmer, Michael–BTuF19
Schlaggar, Bradley L.–BME3
Schmidt, Florian M.–LTuA5
Schmidt, J.–LTuC2
Schmidt, Titania A. R.–JMA40
Schmit, Joanna–**DMB3**
Schmitt, Joseph M.–BWF8
Schmitt, Randal L.–LMC3
Schmitz, Christoph H.–**BSuE19**
Schnall, Mitchell D.–BSuB1, BSuE16
Schneiderheinze, Dirk H. P.–**BMD87**
Schossig, Tobias–JMA29
Schotland, John C.–BMC5, BSuE45
Schrader, Paul E.–LTuA3
Schraub, Martin–BTuF1
Schulkin, B.–LTuC1
Schulmerich, Matthew V.–BWD5
Schultz, Paul–LTuA3
Schulz, Christof–**LWB1**
Schulz, Paul–LMC3
Schulz, Ralf–BSuE26, BSuE50, BSuE89,
BWG8
Schwamm, Lee H.–BSuD4
Schwarz, Richard A.–**BTuF18**
Schweiger, Martin–BMC2, BSuE14
Schweitzer, Robert–LThB1
Scott, Nicholas J.–BTuF2
Scully, Marlan O.–BTuF8
Sedarsky, David–**LTuC3**
Seeger, Thomas–**LWA5**
Sehgal, Chandra M.–BTuF35
Selb, Juliette–BMD24, BSuB2, BSuB7,
BSuD1, **BSuD4**, BSuE73,
BSuE72
Semmler, Wolfram–BSuE50, BSuE89
Sentenac, Anne–**BMD57**, BSuE87
Seo, Junho–DWA5
Seo, Young-Ho–JMA10, **JMA9**
Serap, Sinem–**BSuE63**, BWC3
Settersten, Thomas–**LWA**, LWB3
Seufert, Jochen–LTuA1
Shah, Qaisar–BSuD3
Shah, Raj–BWG1
Shah, Raamil–BWG1
Shaked, Natan T.–**DMC3**, JMA13
Shalinsky, Mark H.–BWC4
Shan, Hua–BSuE33
Sharareh, Shiva–BTuF42
Sharikova, Anna V.–**JMA34**
Sharma, Anita–BSuE13, BSuE15
Sharma, Ashwini Kumar–LThB3
Sharma, Parvesh–BSuE10
Sharma, Vikrant–**BMD13**, BMD50
Sheikh, Mumtaz–**BTuF64**
Sheng, Chao–BTuF3
Shepherd, Neal–BWC8
Sheppard, Colin–BMD64, BSuE8, BTuF63
Sherif, Sherif S.–**BMD86**
Shi, Songhai–BMD56
Shi, Yihui–BSuE86
Shidlovski, Vladimir–**BMD80**
Shieh, Jeng J.–BSuA5
Shimada, Sotaro–BSuE79
Shimizu, Koichi–BMD35
Shin, Dong-Hak–**JMA5, JMA8**
Shneider, Mikhail–LWC4
Shramenko, M. V.–BMD80
Shroff, Hari–**BTuA2**
Shultz, Susan–BTuF35
Sick, Volker–LWB4
Sierra, Heidy–**BMD67**
Sigman, Michael–LThB5
Sim, Eddy–DWB5
Singh, Jagdish P.–JMA32, JMA38
Singh, Megha–BSuE22
Singh, Satish K.–BTuF14
Singh, Vijay Raj–DWB5
Sivak, Michael V.–BTuF54
Sivaprakasam, Vasanthi–**LThA4**
Skala, Melissa C.–**BWF5**
Smith, Danielle K.–BTuF37

Smith, Harriet O.–BTuD7
Smith, Martin–BSuE77
Smith, Zachary J.–BTuF34
So, Peter T. C.–BMD52, BMD53, **BTuA1**,
BTuF52
Sokolov, Konstantin V.–**BSuA**, **BSuA1**,
BTuF37
Solovey, Erin Treacy –BMD14
Soloviev, Vadim–BWE6, **BWG8**
Somasundaram, Santosh–BSuB8
Sommers, Ricky L.–LTuA3
Sonnensfroh, David M.–**LMA1**
Sorg, Brian S.–BMD68
Spicer, James B.–**LThC2**
Spigulis, Janis–**BTuF27**
Spinelli, Lorenzo–BMD10, BMD11,
BMD39, BMD8, BMD9, BSuB3,
BSuE37, BSuE58, BSuE88,
BWC6
Splinter, Robert–JMA35
Spöler, Felix–BMD90
Spuler, Scott M.–**JMA20**
Srinivasan, Kalyan–JMA38
Srinivasan, Subhadra–BSuB4, **BSuE36**,
BWD5
Srivastava, Abneesh–BSuE1, BWG3
St. Lawrence, Keith–BSuE60, BSuE68
Stadelhoff, Christian–BMD45
Stafford, Ryan–LMC2
Stayton, Patrick S.–BSuA4
Steele, Philip–JMA32
Steinbrink, Jens–**BME**, **BME1**, BSuC4
Steinkellner, Oliver–BMD43, **BMD45**
Stelzer, Ernst–**BMF1**
Stephen, Mark–**JMA19**, LMA4
Sternberg, Paul W.–BMF5
Stevenson, David J.–BMD60
Stier, Elizabeth–BTuD6, **BWD3**
Stoika, Rostyslav–BSuE9
Stolper, Roman–BWG7
Strohmeier, Dirk–DMC7
Styles, Iain–**BTuF28**
Su, Jianzhong–BSuE33
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Sunar, Ulaş–BSuE55, BSuE81
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Suter, Jonathan D.–LThA3
Suzuki, Kenneth M.–JMA40
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Zhu, Timothy-BSuD2
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Digital Holography and Three-Dimensional Imaging (DH) Postdeadline Paper Abstracts

• Monday, March 17, 2008 •

JMA • Joint DH and LACSEA Poster Session

Foyer

4:00 p.m.–6:00 p.m.

JMA • Joint DH and LACSEA Poster Session

PDPJMA1

An Electronic Watermarking Technique for Digital Hologram, Hyun-Jun Choi¹, Young-Ho Seo², Ji-Sang Yoo¹, Young-Geun Choi¹, Hwa-Sung Kim¹, Dong-Wook Kim¹; ¹Kwangwoon Univ., Republic of Korea, ²Hansung Univ., Republic of Korea. This paper proposes an electronic watermarking scheme, a method to protect the ownership, for digital holograms, which uses the DCT domain data as the ones to be watermarked.

PDPJMA2

Mapping of Refractive Index by Pulsed Digital Holographic Image Field Correlation, Mikael Sjödaahl; Luleå Univ. of Technology, Sweden. The possibility to use digital holographic reconstructions to map three-dimensional refractive index fields is presented. The technique uses depth reconstructions in combination with speckle movements and phase information in an imaging system.

PDPJMA3

Digital Reconstruction of Optical Fields in Nonlinear Media, Christopher Barsi, Wenjie Wan, Jason W. Fleischer; Princeton Univ., USA. We extend the technique of digital holography to the case of beam propagation through nonlinear media. We experimentally verify the technique by reconstructing nonlinear wave dynamics within a self-defocusing medium and nonlinearly imaging through it.

PDPJMA4

Partially Coherent Response of Volume Holographic Imaging Systems, Se Baek Oh, George Barbastathis; MIT, USA. We present the response of volume holographic imaging systems (VHIs) to quasi-monochromatic partially coherent illumination. The result with different aperture sizes is numerically evaluated and measured by a wavefront folding interferometer cascaded to the VHIs.

PDPJMA5

FINCHSCOPE: Motionless Fluorescence Digital Holographic Microscopy, Gary Brooker¹, Joseph Rosen²; ¹Johns Hopkins Univ. Microscopy Ctr., Johns Hopkins Univ. at Montgomery County, USA, ²Ben-Gurion Univ. of the Negev, Israel. We show new 3-D fluorescence holographic microscopes which are fast, simple, immune to vibration, since the interference occurs in a single beam path, and achieve high resolution 3-D microscopic images using high numerical aperture objectives.

PDPJMA6

Stability of the Digital Holographic Inverse Problem as a Function of Particle Density, Jose A. Dominguez-Caballero, George Barbastathis; MIT, USA. The stability of the inverse problem associated with a digital holographic system for particle imaging is discussed. The defined stability metric is computed for a given configuration to find the optimum particle density.

PDPJMA7

Real-Time Probing the Biological Processes by Holographic Recording in Polarization-Sensitive Bacteriorhodopsin Films, Elena Korchemskaya^{1,2}, Nikolaj Burykin², Dmitrij Stepanchikov³, Tatyana Dyukova⁴; ¹Inst. of Physics, Natl. Acad. of Sciences, Ukraine, ²Inst. of Applied Optics, Natl. Acad. of Sciences, Ukraine, ³Zhytomir State Univ., Ukraine, ⁴Inst. of Theoretical and Experimental Biophysics, Russian Acad. of Sciences, Russian Federation. Bacteriorhodopsin is a photosensitive protein similar to visual rhodopsin. We propose to apply photoinduced anisotropy and holographic recording in bacteriorhodopsin films for real-time analysis of the biological tissue image and study of retina dark adaptation.

PDPJMA8

Digital Holography for Imaging Tissue Cells Using Coherent Lights, Hongyue Sun¹, Bing Song², Jingxing Ou², John Watson¹, Min Zhao³; ¹School of Engineering, Univ. of Aberdeen, UK, ²School of Medical Sciences, Univ. of Aberdeen, UK, ³Dermatology, Ctr. for Neuroscience, School of Medicine, Univ. of California at Davis, USA. Visible and near-infrared lasers are examined to see how laser coherence length and wavelength affect the image quality in digital holographic microscopy. With opaque and partially transparent animal tissues, NIR-lasers show advantages over visible laser.

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