Scientific Program

OMICS Group Conferences
Accelerating Scientific Discovery

4th International Conference on
Clinical & Experimental Ophthalmology

July 14-16, 2014 DoubleTree by Hilton Baltimore-BWI Airport, USA



Exhibitor

dxdt Engineering and Research

"Organize your Events at OMICS Group Conferences"

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS Group Conferences
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Email: *ophthalmology2014@omicsonline.net*

Day 1 July 14, 2014

08:00-08:30 Registrations

Harbor Room

08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:05 **Introduction**

09:05-09:30 **Chi-Chao Chan**
National Institutes of Health, USA

09:30-09:55 **Ashim K. Mitra**
University of Missouri-Kansas City, USA

Group Photo

Coffee Break 10:00-10:15 @ Prefunction Area

Workshop

10:15-11:15 Workshop on **"Repercussions in Eye Microcirculation of Patients with Systemic Vascular Disease"**
Carlota Saldanha, University of Lisbon, Portugal
Paulo Filipe, University of Lisbon, Portugal

Track 3: Glaucoma: Visual Field Loss
Track 4: Neuro-Ophthalmology

Session Introduction

Session Chair: Rebecca M. Sappington, Vanderbilt University School of Medicine, USA
Session Co-Chair: Janardan Kumar, Becker College, USA

11:15-11:35 **Potential contribution of IL-6 trans-signaling to the pathophysiology of glaucoma**
Rebecca M. Sappington, Vanderbilt University School of Medicine, USA

11:35-11:55 **An overview of RGD-containing peptides research and it's potentials to the field of glaucoma therapy and/or vitreolysis**
Janardan Kumar, Becker College, USA

11:55-12:15 **Use of the Cogan lid twitch to identify Myasthenia gravis**
Noelle S. Matta, Eye Group in Lancaster Pennsylvania, USA

12:15-12:35 **Myelin damage after NAION impacts visual function and recovery**
Steven L. Bernstein, University of Maryland at Baltimore School of Medicine, USA

Lunch Break 12:35-13:20 @ Annapolis Room

13:20-13:40 **East London glaucoma prediction score: A web based glaucoma risk calculator. Influence on screening in particular diabetic retinopathy**
Stephen Paul Cameron Cook, Walter Sisulu University, South Africa

13:40-14:00 **Evaluating the accuracy of the visual field index for the Humphrey visual field analyser in a population of patients with mild to moderate glaucoma**
Renee Talbot, University of British Columbia, Canada

14:00-14:20 **Soluble guanylate cyclase: An emerging therapeutic target in primary open angle glaucoma**
Emmanuel Buys, Harvard Medical School, USA

14:20-14:40 **Does seeing in viewpoint perspective require awareness?**
Chris Lange-Kuettner, London Metropolitan University, UK

Track 1: Cornea & External Eye Disease

Session Introduction

Session Chair: Manuel B. Datiles, National Institutes of Health, USA
Session Co-Chair: Yassine J. Daoud, The Johns Hopkins University School of Medicine, USA

14:40-15:00 **Clinical detection and monitoring of pre-cataractous lens changes using a dynamic (or Quasi-elastic) light scattering device**
Manuel B. Datiles, National Institutes of Health, USA

15:00-15:20 **Use of femtosecond laser in cataract surgery**
Yassine J. Daoud, The Johns Hopkins University School of Medicine, USA

Coffee Break 15:20-15:35 @ Prefunction Area

15:35-15:55 **Coordinating epithelial cell proliferation and migration in corneal wound healing**
Arpitha Parthasarathy, US Medical Innovations, USA

15:55-16:15 **Corneal collagen crosslinking: Past, present and future of conservative treatment for keratoconus**
Miguel Rechichi, Magna Graecia University, Italy

16:15-16:35 **Chromatic aberration and polychromatic image quality with diffractive multifocal lenses**
Sowmya Ravikumar, University of California Berkeley, USA

16:35-16:55 **Past, present and future of artificial corneas: Ukraine experience**
Oleksiy Buznyk, Filatov Institute of Eye Diseases and Tissue Therapy of the NAMS of Ukraine, Ukraine

16:55-17:10 **Surgical management of dislocated IOL's**
Yassine J. Daoud, The Johns Hopkins University School of Medicine, USA

17:10-17:30 **A severe case of conjunctival papilloma in a five year old female**
Oseluese Anastasia Dawodu, University of Benin Teaching Hospital, Nigeria

Benjamin Banneker

Track 2: Retina & Retinal Disorders

Session Introduction

Session Chair: Sayon Roy, Boston University School of Medicine, USA
Session Co-Chair: Eugenia Poliakov, National Eye Institute, USA
Session Co-Chair: Elia J. Duh, Johns Hopkins School of Medicine, USA

13:20-13:40 **Animal models of age-related macular degeneration in different species**
Chi-Chao Chan, National Institutes of Health, USA

13:40-14:00 **Angioinhibitory signaling mechanism(s) in choroidal endothelial cells by endogenous metabolite**
Sudhakar Akul-Yakkanti, Stanford Research Institute (SRI) International, USA

14:00-14:20 **Key role of alpha-Crystallins in aging-related retinal disorders**
Patrice E. Fort, University of Michigan, USA

14:20-14:40 **Long-term multiple A2E treatment leads to melanization of ARPE19 cells**
Eugenia Poliakov, National Eye Institute, USA

14:40-15:00 **Cell-to-cell communication in diabetic retinopathy**
Sayon Roy, Boston University School of Medicine, USA

15:00-15:20 **Current choices in the repair of primary retinal detachments**
Frank LaFranco, Northwestern University, USA

Coffee Break 15:20-15:35 @ Prefunction Area

15:35-15:55 **Intravitreal bevacizumab combined with infliximab in the treatment of choroidal neovascularization secondary to age-related macular degeneration: Case report series**
Luiz Guilherme, Hospital of Olhos Santa Luzia, Brazil

15:55-16:15 **Oxidative stress and inflammation in diabetic retinopathy and retinal vascular diseases: Modulation by Nrf2**
Elia J. Duh, Johns Hopkins School of Medicine, USA

16:15-16:35 **Evaluation of a posterior vitreous detachment: A comparison of biomicroscopy, B-scan ultrasonography and optical coherence tomography to surgical findings with chromodissection**
Nadia Kicova, Philipps University Marburg, Germany

16:35-16:55 **Advanced glaucoma patients- Quality of life, daily difficulties in a videotaped evaluation and a new device for administrating eye drops**
Ana Miguel, Polyclinique de la Baie, France

16:55-17:15 **Soluble lutein (lutemax2020®) prevents retinal damage in streptozotocin (stz)-induced diabetic rats**
Vijaya Juturu, OmniActive Health Technologies Inc. Morristown, USA

17:15-17:35 **Preventive management of pre-clinical diabetic macular edema**
Shahid Wahab, Dow University of Health Sciences, Pakistan

17:35-17:55 **Early mechanisms of retinal degeneration in a mouse mimic of oculodentodigital dysplasia (ODDD)-related glaucoma**
Mohammad Ali Faraz, Western University, Canada

18:15-19:15 Cocktails sponsored by **Journal of Clinical & Experimental Ophthalmology @ Prefunction Area**

Day 2 July 15, 2014

Harbor Room

Keynote Forum

09:00-09:25 **Sayon Roy**
Boston University School of Medicine, USA

09:25-09:50 **Jayne S. Weiss**
Louisiana State University Health Sciences Center, USA

Session Introduction

Speaker session: Schnyder Corneal Dystrophy and UB1AD1 function

Session Chair: **Michael L. Nickerson**, National Institutes of Health, USA

Session Co-Chair: **Michael Dean**, National Cancer Institute at Frederick, USA

09:50-10:10 **Insights into eye diseases and biology using genetics**
Michael Dean, National Cancer Institute at Frederick, USA

10:10-10:30 **Schnyder corneal dystrophy- A window to insights on cholesterol, vitamin K and Parkinson's disease?**
Jayne S. Weiss, Louisiana State University Health Sciences Center, USA

Coffee Break 10:30-10:45 @ Prefunction Area

10:45-11:05 **Schnyder corneal dystrophy- Abnormal cholesterol homeostasis in a connective tissue**
Xueting Jin, National Health of Institutes, USA

11:05-11:25 **Genetic analysis of families with Schnyder corneal dystrophy identifies UBIAD1, an enzyme producing endogenous vitamin K, which interacts with enzymes regulating cholesterol synthesis and storage**

Michael L. Nickerson, National Institutes of Health, USA

11:25-11:45 **The role of TERE1/UBIAD1 in urologic oncology: History and current investigations**

Bruce Malkowicz, University of Pennsylvania, USA

11:45-12:05 **Generation and characterization of brain-specific UBIAD1-deficient mice using a nestin promoter-driven cre/loxP strategy**

Kimie Nakagawa, Kobe Pharmaceutical University, Japan

12:05-12:25 **Crystal structures of a UbiA superfamily prenyltransferase**

Weikai Li, Washington University in St. Louise, USA

12:25-12:45 **Vitamin K2, as electron carrier molecule, holds potential as novel therapeutic strategy in Parkinson's disease**

Melissa Vos, Center for Human Genetics & Leuven Research Institute for Neurodegenerative Diseases, Belgium

Lunch Break 12:45-13:30 @ Annapolis Room

13:30-14:30 Poster Presentations @ Prefunction Area

13:30-13:50 **Emerging role of UBIAD1 in embryonic development of mammals**

Toshio Okano, Kobe Pharmaceutical University, Japan

13:50-14:10 **UBIAD1 is an antioxidant enzyme that regulates NO signaling by CoQ10 synthesis**

Massimo M. Santoro, Vesalius Research Center, Belgium

Track 5: Ocular Microbiology & Immunology

Session Introduction

Session Chair: Elizabeth A Berger, Wayne State University School of Medicine, USA

Session Co-Chair: Eleftherios I. Paschalis, Harvard Medical School, USA

14:10-14:30 **Fibrinogen effects on erythrocyte nitric oxide mobilization in presence of timolol**

Carlota Saldanha, University of Lisbon, Portugal

14:30-14:50 **Immunoregulation of bacterial-induced keratitis**

Elizabeth A Berger, Wayne State University School of Medicine, USA

14:50-15:10 **Interferon alpha-2b in the treatment of refractory uveitic cystoid macular edema**

Nicholas J. Butler, Johns Hopkins University School of Medicine, USA

15:10-15:30 **Juvenile rabbit animal model of lensectomy to evaluate therapeutic interventions for postoperative inflammation and fibrosis**

Iris Kassem, University of Illinois at Chicago Eye and Ear Infirmary Chicago, USA

Coffee Break 15:30-15:45 @ Prefunction Area

15:45-16:05 **Alkali burn to the eye: Protection using TNF-α inhibition**

Eleftherios I. Paschalis, Harvard Medical School, USA

16:05-16:25 **Mechanisms and modulation of corneal lymphangiogenesis**

Lu Chen, University of California at Berkeley, USA

16:25-16:45 **Honey: Clinical applications and scope as an alternate antibacterial therapy in multi-resistant ocular bacterial infections especially involving MRSA**

Shamim Ahmad, Aligarh Muslim University, India

Track 6: Research Trends in Surgical & Medical Ophthalmology

Session Introduction

Session Chair: Miguel Rechichi, Magna Graecia University, Italy

Session Co-Chair: Nir Shoham-Hazon, Shoham-Hazon EyeCare, Canada

16:45-17:05 **The national ophthalmic genotyping and phenotyping network (eyegene®): Preserving vision through genetics**
Kerry Goetz, National Eye Institute, USA

17:05-17:25 **Intraoperative *in-vivo* OCT pachymetric mapping during epi-off pulsed accellerated high fluence corneal collagen cross-linking with dextran free riboflavin**
Miguel Rechichi, Magna Graecia University, Italy

17:25-17:45 **The use of polyisobutylene polymers for glaucoma drainage tubes and intraocular lenses**
Leonard Pinchuk, University of Miami Miller School of Medicine, USA

17:45-18:05 **Novel ab-interno Minimally Invasive Glaucoma Surgery (MIGS)- The XEN45 microfistula**
Nir Shoham-Hazon, Shoham-Hazon EyeCare, Canada

18:05:18:25 **Naso lacrimal duct tumors in the era of endoscopic sinus surgery**
Faiz Tanweer, Leeds General Infirmary, UK

18:30-19:30 Cocktails sponsored by **International Journal of Ophthalmic Pathology @ Prefunction Area**

Day 3 July 16, 2014

Harbor Room

Track 7: Novel Approaches to Ophthalmology Therapeutics

Session Introduction

Session Chair: Ashim K. Mitra, University of Missouri-Kansas City School of Pharmacy, USA

Session Co-Chair: Kay Rittenhouse, Ocular Drug Development Strategies LLC, USA

09:00-09:20 **Emerging technologies in controlled long term delivery of ocular therapeutics**
Ashim K. Mitra, University of Missouri-Kansas City School of Pharmacy, USA

09:20-09:40 **siRNAs- Are they a viable therapeutic approach for eye diseases?**
Kay D. Rittenhouse, Ocular Drug Development Strategies LLC, USA

09:40-10:00 **A new platform for sustained topical delivery of antiglaucoma drugs**
Hu Yang, Virginia Commonwealth University, USA

10:00-10:20 **Adeno-associated virus-mediated delivery of amyloid β antibody for treatment of age-related retinal degenerative diseases**
Ruslan N. Grishanin, Pfizer Pharmaceuticals, USA

10:20-10:40 **Engineering controlled release of therapeutics & comfort agents from novel therapeutic contact lenses**
Mark E. Byrne, Auburn University, USA

Coffee Break 10:40-10:55 @ Prefunction Area

10:55-11:15 **Nanotechnology guided delivery of siRNA in retinal vascular disease**
Ashwath Jayagopal, Vanderbilt Eye Institute, USA

11:15-11:35 **An intriguing nutraceutical approach in dogs affected by Keratoconjunctivitis sicca in a human treatment perspective**
Beniamino Palmieri, University of Modena, Italy

11:35-11:55 **Mixed nanomicelles of dexamethasone- A new topical therapy for Posterior uveitis**
Sai HS Boddu, The University of Toledo, USA

11:55-12:15 **Transient paralysis during acupuncture therapy: A case report of an adverse event**
Anne Beable, Trevithick Surgery, UK

12:15-12:35 **Engineering an end to post-vitrectomy cataracts**
Shlomit Schaal, University of Louisville, USA

Lunch Break 12:35-13:20 @ Annapolis Room

Track 8: Ophthalmic Research & Drug Development

Session Introduction

Session Chair: Tao L. Lowe, University of Tennessee College of Pharmacy, USA

Session Co-Chair: Ruiwen Shi, Allergan Inc., USA

13:20-13:40 **Craft materials to overcome ocular barriers**
Tao L. Lowe, University of Tennessee College of Pharmacy, USA

13:40-14:00 **Non-degradable and biodegradable implants**
Ruiwen Shi, Allergan Inc., USA

14:00-14:20 **Equilibrium binding interactions between lotrafilcon a soft contact lenses and the two prostaglandin anti-glaucoma drugs bimatoprost and tafluprost**
Richard A. Kenley, Advantar Laboratories, Inc., USA

14:20-14:40 **Preparing and obtaining quality compounded ophthalmic preparations**
Linda F. McElhiney, Indiana University Health, USA

14:40-15:00 **Ocular melanin modulates pharmacokinetics and drug disposition of therapeutic agents**
Viral Kansara, Novartis Institutes for Biomedical Research, USA

15:00-15:20 **Two-photon microscopy and fluorescence lifetime imaging of retinal tissues under lipid peroxidation**
Yoko Miura, University of Luebeck, Germany

Coffee Break 15:20-15:35 @ Prefunction Area

15:35-15:55 **Dendrimer-based targeted nanotherapeutics for ocular inflammation**
Kannan Rangaramanujam, Johns Hopkins School of Medicine, USA

15:55-16:15 **Update on Management of Orbital Inflammation**
Timothy J. McCulley, Johns Hopkins University School of Medicine, USA

16:15-16:35 **Recent progress in computational modeling of human visual attention**
Ali Borji, University of Southern California, USA

16:35-16:55 **On the holy grail of antibrotics in trabeculectomy: Amniotic membrane, collagen implant versus mitomycin C**
Kirti Singh, Maulana Azad Medical College, India

16:55-17:15 **Fluoride intake increases oxidative burden of cataractognesis in flouride endemic areas in India**
Swati Tomer, NIMS University, India

Bookmark your dates

OMICS Group Conferences
Accelerating Scientific Discovery

5th International Conference on
Clinical & Experimental Ophthalmology
August 03-05, 2015 Valencia, Spain

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OMICS Group Conferences - 2014 Subject Wise

Clinical Science

3rd International Conference on *Gastroenterology & Urology*
July 28-30, 2014 San Francisco, USA

3rd International Conference and Exhibition on *Addiction Research & Therapy*
August 04-06, 2014 Chicago, USA

3rd International Conference and Exhibition on *Neurology & Therapeutics*
September 08-10, 2014 Philadelphia, USA

3rd International Conference and Exhibition on *Nutrition & Food Sciences*
September 23-25, 2014 Valencia, Spain

3rd International Conference on *Clinical Microbiology & Microbial Genomics*
September 24-26, 2014 Valencia, Spain

4th International Conference on *Vaccines & Vaccination*
September 24-26, 2014 Valencia, Spain

2nd International Conference on *Hematology & Blood Disorders*
September 29-October 01, 2014 Baltimore, USA

3rd International Conference on *Clinical & Cellular Immunology*
September 29-October 01, 2014 Baltimore, USA

3rd International Conference on *Forensic Research & Technology*
October 06-08, 2014 San Antonio, USA

2nd World Congress on *Endocrinology*
October 20-22, 2014 Chicago, USA

3rd International Summit on *Toxicology*
October 20-22, 2014 Chicago, USA

2nd International Congress on *Bacteriology & Infectious Diseases*
November 17-19, 2014 Chicago, USA

2nd International Conference on *Nursing & Emergency Medicine*
November 17-19, 2014 Chicago, USA

Engineering & Applied Sciences

3rd International Conference and Exhibition on *Biosensors & Bioelectronics*
August 11-13, 2014 San Antonio, USA

International Meeting on *Space-Open Debate*
August 12-13, 2014 San Antonio, USA

Annual *Artificial Intelligence* Conference
August 25-27, 2014 Philadelphia, USA

2nd International Conference and Exhibition on *Mechanical & Aerospace Engineering*
September 08-10, 2014 Philadelphia, USA

2nd International Conference and Exhibition on *Lasers, Optics and Photonics*
September 08-10, 2014 Philadelphia, USA

3rd International Conference on *Hydrology & Groundwater Expo*
September 15-17, 2014 Hyderabad, India

3rd International Conference and Exhibition on *Materials Science & Engineering*
October 06-08, 2014 San Antonio, USA

3rd International Conference and Exhibition on *Biometrics & Biostatistics*
October 20-22, 2014 Baltimore, USA

4th International Conference on *Nanotek & Expo*
December 01-03, 2014 San Francisco, USA

International Summit on *Industrial Engineering*
December 08-10, 2014 San Francisco, USA

Life Sciences

2nd International Conference and Exhibition on *Food Processing & Technology*
July 21-23, 2014 Las Vegas, USA

2nd International Conference on *Oceanography*
July 21-23, 2014 Las Vegas, USA

3rd International Conference on *Earth Science & Climate Change*
July 28-30, 2014 San Francisco, USA

2nd International *Integrative Biology* Summit
August 04-05, 2014 Chicago, USA

2nd International Conference on *Animal & Dairy Sciences*
September 15-17, 2014 Hyderabad, India

3rd International Conference and Exhibition on *Probiotics & Functional Foods*
September 22-24, 2014 Naples, Italy

4th World Congress on *Virology*
October 06-08, 2014 San Antonio, USA

3rd International Conference on *Agricultural & Horticultural Sciences*
October 27-29, 2014 Hyderabad, India

Medical Science

3rd International Conference and Exhibition on *Orthopedics & Rheumatology*
July 28-30, 2014 San Francisco, USA

2nd International Conference on *Epidemiology & Evolutionary Genetics*
August 18-19, 2014 Beijing, China

2nd International Conference and Exhibition on *Traditional & Alternative Medicine*
August 25-26, 2014 Beijing, China

2nd International Conference on *Radiology & Imaging*
September 08-09, 2014 Releigh, USA

Global Cancer Conference
September 15-17, 2014 Hyderabad, India

2nd International Conference on *Psychology, Autism & Alzheimer´s Disease*
September 23-25, 2014 Valencia, Spain

3rd International Conference on *Tissue Science & Regenerative Medicine*
September 24-26, 2014 Valencia, Spain

4th World Congress on *Cancer Science & Therapy*
October 20-22, 2014 Chicago, USA

Health Informatics & Technology Conference
October 20-22, 2014 Baltimore, USA

3rd International Conference and Exhibition on *Cell & Gene Therapy*
October 27-29, 2014 Las Vegas, USA

2nd International Conference on *HIV/AIDS, STDs & STIs*
October 27-29, 2014 Las Vegas, USA

3rd International Conference on *Translational Medicine*
November 03-05, 2014 Las Vegas, USA

2nd International Conference on *Predictive, Preventive, Personalized Medicine & Molecular Diagnostics*
November 03-05, 2014 Las Vegas, USA

5th World Congress on *Diabetes & Metabolism*
November 03-05, 2014 Las Vegas, USA

3rd International Conference on *Surgery and Anesthesia*
November 17-19, 2014 Chicago, USA

3rd International Conference and Exhibition on *Obesity & Weight Management*
December 01-03, 2014 San Francisco, USA

OMICS & Management

4th International Conference on *Proteomics & Bioinformatics*
August 04-06, 2014 Chicago, USA

2nd International Conference on *Functional and Comparative Genomics & Pharmacogenomics*
September 08-10, 2014 Releigh, USA

International Conference on *Business, Economics & Management*
September 15-16, 2014 Hyderabad, India

International Conference on *Business Economics of Broadcasting Media & Film Industry*
October 20-22, 2014 Baltimore, USA

Pharmaceutical/Chemistry

3rd International Conference and Exhibition on *Cosmetology & Trichology*
July 21-23, 2014 Las Vegas, USA

5th International Conference and Exhibition on *Analytical & Bioanalytical Techniques*
August 18-20, 2014 Beijing, China

World Summit on *The Past and Present Research Systems of Green Chemistry*
August 25-27, 2014 Philadelphia, USA

2nd International Conference and Exhibition on *Pharmacognosy, Phytochemistry & Natural Products*
August 25-27, 2014 Beijing, China

4th International Conference on *Pharmaceutical Regulatory Affairs*
September 08-10, 2014 Releigh, USA

3rd International Summit on *GMP, QA & QC*
September 25-26, 2014 Valencia, Spain

5th World Congress on *Bioavailability & Bioequivalence: Pharmaceutical R&D Summit*
September 29-October 01, 2014 Baltimore, USA

2nd World Congress on *Petrochemistry and Chemical Engineering*
October 27-29, 2014 Las Vegas, USA

3rd International Conference and Exhibition on *Pharmacovigilance & Clinical Trials*
October 27-29, 2014 Hyderabad, India

3rd International Conference and Exhibition on *Biowaivers & Biosimilars*
October 28-29, 2014 Hyderabad, India

2nd International Summit on *Clinical Pharmacy & Dispensing*
December 02-03, 2014 San Francisco, USA

3rd International Conference on *Medicinal Chemistry & Computer Aided Drug Designing*
December 08-10, 2014 San Francisco, USA