

2017 ARVO Imaging in the Eye Conference

AGENDA

Paper Sessions	Ballroom I
Retinal Imaging I	8:00am – 10:00am
Glaucoma and Anterior Eye	10:30am – 12:00pm
Retinal Imaging II	1:30pm – 3:00pm
New Technologies and Image Processing Methods	3:30pm – 5:30pm

Poster Sessions	Ballroom II 8:00am – 5:30pm
Presentation times	10:00am – 10:30am 12:00pm – 1:30 pm 3:00pm – 3:30pm
Glaucoma	
Cornea and Lens	
Retina	
OCT Angiography	
Preclinical	
New Imaging Technology and Methods	
Image Processing	



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IMAGING IN THE EYE CONFERENCE

Time	Presentations	Organizers
7:45	Welcome and opening remarks	James G. Fujimoto Dept. of Electrical Engineering & Computer Science Massachusetts Institute of Technology Wolfgang Drexler Medical University Vienna Joel S. Schuman New York University Medical Center
Retinal Imaging I 8:00am – 10:00am Moderators: James G. Fujimoto and Wolfgang Drexler		Ballroom I Presenters
8:00	Normative-Based Microvascular Perfusion Deficit Analysis of Patients with Retinal Vasculopathies using Optical Coherence Tomography Angiography (OCT-A)	R. Rosen; B.D. Krawitz; R. Bavier; S. Mo; R. Weitz; J. Carroll; T. Chui
8:15	Extracting and Segmenting 3D Choroidal Vasculography Information from Swept Source OCT-A Data	C. Glittenberg
8:30	Automated Geographic Atrophy Segmentation for SD-OCT images with Deep Neural Networks	Z. Ji; Q. Chen; S. Niu; S. Yuan; W. Fan; Q. Liu
8:45	Ultra-wide Field OCTA imaging and quantitative analysis of abnormal microvasculature	Z. Chu; Q. Zhang; C. Chen; R. Wang
9:00	Reflectance-based projection-resolved optical coherence tomography angiography and its applications to two commercial devices	Y. Jia; J. Wang; B.J. Lujan; T. Hwang; S.T. Bailey; D. Wilson; D. Huang
9:15	Explanation for dark appearance of choroidal vessels in clinical OCT images	R. Wang; M. Kirby; C. Li; W.J. Choi; G. Gregori; P.J. Rosenfeld
9:30	Significant correlations between retinal imaging measures with amyloid- β deposition	C.Y. Cheung; T. Tso; V. Chan; A. Wong; V. Mok; T. Wong; C. Tham
9:45	In vivo super-resolution imaging of stimulus-evoked transient retinal photoreceptor movement in <i>Rana pipiens</i>	Y. Lu; C. Liu; X. Yao

Poster Presentations and Morning Break		10:00am – 10:30am	Ballroom II
Glaucoma and Anterior Eye		10:30am – 12:00pm	Ballroom I
Moderators: Joel S. Schuman and Richard Rosen		Presenters	
10:30	A personalized macular vulnerability zone based on individual retinal anatomy improves structure-function modeling of glaucomatous central vision loss	T. Elze; H. Wang; N. Baniasadi; D. Li; Q. Jin; M. Wang	
10:45	The Relationship between the Full Circumpapillary Retinal Nerve Fiber Layer Thickness (RNLF) Profile and Age in Healthy Subjects	M. Wang; T. Elze; D. Li; N. Baniasadi; K. Wirkner; T. Kirsten; M. J. Thiery; M. Loeffler; C. Engel; F. Rauscher	
11:00	Prediction of Glaucoma Progression Using Two-Dimensional Continuous Time Hidden Markov Model with Structural and Functional Measurements	Y. Song; H. Ishikawa; M. Wu; Y. Liu; K.A. Lucy; M. Liu; G. Wollstein; J.S. Schuman	
11:15	Measuring Optic Nerve Head Deformation Using High-Frequency Ultrasound Speckle Tracking	E. Pavlatos; K. Clayson; J. Liu	
11:30	A Micro-Plenoptic Imaging System for 3D Imaging of Human Iris	H. Chen; V. Sick; M. Woodward	
11:45	Anterior Segment Angiography for Imaging Vasculature in the Iris, Limbus and Sclera	S. Bello; Y. WANG; A. Fard; L. An; P. Sha; G. Staurenghi ; M. Pellegrini; J. Straub	
Poster Presentations and Lunch Break		12:00pm – 1:30pm	Ballroom II
Retinal Imaging II		1:30pm – 3:00pm	Ballroom I
Moderators: Philip J. Rosenfeld and Christine A. Curcio		Presenters	
1:30	Quantitative OCT Angiography of the Retinal Microvasculature and the Choriocapillaris in Myopic Eyes	D. Sarraf; M. Al-Sheikh; N. Phasukkijwatana; R. Dolz-Marco; M. Rahimi; N. Iafe; K. Freund; S. Sadda	
1:45	Standard Deviation Mapping of Age- and Disease-Related Changes in Retinal Peripapillary Capillaries Imaged with OCT Angiography (OCT-A)	A. Pinhas; S. Mo; B. Cortes; B.D. Krawitz; L.S. Geyman; R. Linderman; J. Carroll; R.B. Rosen; T.Y. Chui	
2:00	Automated quantitation of choroidal neovascularization: a comparison study between spectral domain and swept source OCT angiograms	Q. Zhang; C. Chen; Z. Chu; F. Zheng; G. Gregori; P.J. Rosenfeld; R. Wang	

2:15	Measurements of retinal fluid by OCT-Leakage in Diabetic Macular Edema. An Imaging biomarker of response to anti-VEGF treatment.	J. Cunha-Vaz; A.R. Santos; T. Santos; D.G. Alves; J. Figueira
2:30	OCT-Leakage Mapping: A new automated method to identify, locate and quantify abnormal retinal fluid	J. Marques; C. Farinha; T. Santos; I. Pereira Marques; L. Ribeiro; J. Figueira; R. Silva; J.G. Cunha-Vaz
2:45	020. The Hyperspectral Autofluorescence (AF) Signatures of Early Age-related Macular Degeneration (AMD) in Human Donor Eyes	T. Smith; T. Mohammed; N. Dey; Y. Tong; K. Schey; Y. Koutalos; M. Hammer; Z. Ablonczy; G. Gerig; C.A. Curcio; T. Ach

Poster Presentations and Afternoon Break 3:00pm – 3:30pm Ballroom II

New Technologies and Image Processing Methods

Moderators: Ruikang K. Wang and Yali Jia

3:30pm - 5:30pm

Ballroom I

Presenters

3:30	Age-dependence of retinal oxygen extraction	L. Schmetterer; K. Fondi; A. Bata; G. Aschinger; D. Schmidl; G. Garhöfer; R. Werkmeister
3:45	Ultrafast plane-wave ultrasound imaging of the eye R.H. Silverman;	R. Urs; J.A. Ketterling; A. Yu; B.Y. Yiu
4:00	Comparison between optical coherence tomography angiography with and without adaptive optics	M. Salas; M. Augustin; L. Ginner; R. Leitgeb; A. Reumüller; A. Pollreis; J. Hafner; S. Prager; U. Schmidt-Erfurth; W. Drexler; M. Pircher
4:15	Accurate measurement of retinal birefringence by Jones matrix OCT with maximum a posteriori estimator and superpixel	kernel A. Miyazawa; Y. Hong; S. Makita; D. Kasaragod; Y. Yasuno
4:30	Doppler OCT with automated vessel segmentation and active retinal tracking	J.M. Blaes; N.D. Shemonski; J. Straub
4:45	3D Visualization of Retinal Vasculature Using Virtual Reality and 3D Printing	J. Straub; S. Jawad; S.C. Stock; C. Leahy; C. Burns; F. Sousa
5:00	027. Visible Light Polarization Sensitive Optical Coherence Tomography for spectroscopic Retinal Imaging of Mouse Models	D.J. Harper; M. Augustin; A. Lichtenegger; P. Eugui; C. Hitzenberger; B. Baumann
5:15	Imaging the Onset of Spontaneous Retinal Neovascularization in the Murine Retina Using Multi-Functional Optical Coherence Tomography	M. Augustin; M. Wechdorn; U. Pfeiffenberger; S. Fialová; C. Hitzenberger; R. Werkmeister; B. Baumann
5:30	Closing remarks	James G. Fujimoto, Wolfgang Drexler and Joel S. Schuman