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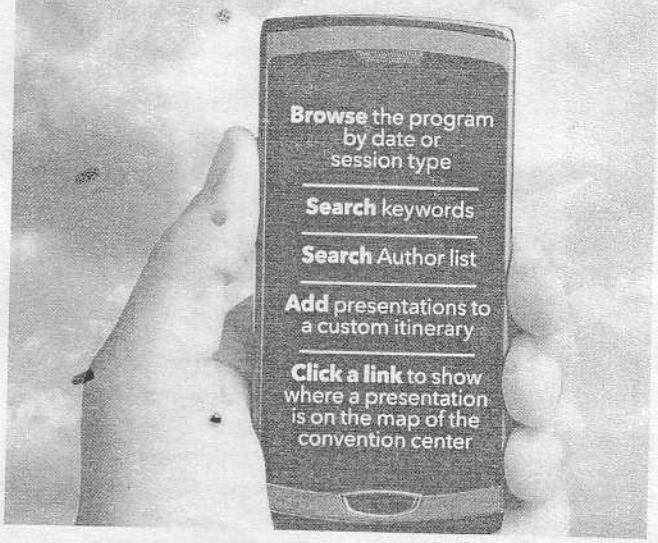

Don't forget to turn your BMES BASH ticket in for a wristband at the information or registration booths before Friday afternoon

AUTHOR INDEX

Available on the Mobile App *(see ad above)* **at:**
http://submissions.mirasmart.com/bmes2018/itinerary
Copies are also available at the Registration Desk.

SCIENTIFIC PROGRAM

THURSDAY

Platform Sessions Th-1 (Thursday 8:00-9:30am)	**4-13**
Platform Sessions Th-2 (Thursday 1:30-3:00pm)	**14-22**
Platform Sessions Th-3 (Thursday 3:45-5:15pm)	**23-31**
Poster Sessions-Thursday	**32-91**

FRIDAY

Platform Sessions Fri-1 (Friday 8:00-9:30am)	**93-101**
Platform Sessions Fri-2 (Friday 1:15-2:45pm)	**102-110**
Platform Sessions Fri-3 (Friday 3:30-5:00pm)	**111-119**
Poster Sessions-Friday	**120-179**

SATURDAY

Platform Sessions Sat-1 (Saturday 8:00am-9:30am)	**180-189**
Platform Sessions Sat-2 (Saturday 1:30-3:00pm)	**190-198**
Platform Sessions Sat-3 (Saturday 3:15-4:45pm)	**199-205**
Poster Sessions-Saturday	**206-249**
Omni Hotel Floorplan	**250**
Georgia World Congress Center Floorplan	**251**
Program-at-a-Glance	**252-257**
Schedule-at-a-Glance	**258-260**

Friday, October 19 | 9:30 am–5:00 pm | GWCC Exhibit Hall

Poster Viewing with Authors & Refreshment Break | 9:30 am–10:15 am and 2:45 pm–3:30 pm

FR-322
Comprehensive Framework for Automatic Diagnosing and Grading of Diabetic Retinopathy that Uses Optical Coherence Tomography (OCT) Images.
Ahmed El Tanboly[1,2], Ahmed Shalaby[1], Mohammed Ghazal[1], Harpal Sandhu[1], Guruprasad Giridharan[1], Robert Keynton[1], Magdi El-Azab[2], and Ayman El-Baz[1]
[1]*University of Louisville, Louisville, KY,* [2]*University of Mansoura, Mansoura, Egypt*

FR-323
Segmentation and Tracking of Multiple Landmarks on Body of Running Rodents for Neuroscience and Biomechanics Applications
Omid Haji Maghsoudi[1], Annie Vahedipour[1], Benjamin Robertson[1], and Andrew Spence[1]
[1]*Temple University, Philadelphia, PA*

Track: Biomedical Imaging and Instrumentation

Imaging Contrast Agents, Therapeutic Agents and Theranostic Agents

FR-324
Simultaneous Comparison of Ultrasound Imaging Strategies for Microbubble Contrast Agent Detection
Katherine Brown[1], Mawia Khairalseed[1], and Kenneth Hoyt[1,2]
[1]*University of Texas at Dallas, Richardson, TX,* [2]*University of Texas Southwestern Medical Center, Dallas, TX*

FR-325
Rapid Generation of Peptide-IR783 Fluorophore Conjugates for Targeted Near-IR Probes
Euna Kwak[1], LeNaiya Kydd[2], Butaek Lim[2], and Justyn Jaworski[2]
[1]*The University of Arizona, Tucson, AZ,* [2]*The University of Texas at Arlington, Arlington, TX*

FR-326
Comparison of Three Vessel Painting Agents Used for Optical Clearing-Mediated Three-Dimensional Visualization of Cerebral Microsvasculature
Adrian Bahani[1,2], Mathew Loren[1,2], Christian Crouzet[1,2], Vitaly Vasilevko[1,3], and Bernard Choi[1,2]
[1]*University of California, Irvine, Irvine, CA,* [2]*Beckman Laser Institute and Medical Clinic, Irvine, CA,* [3]*Institute for Memory Impairments and Neurological Disorders, Irvine, CA*

FR-327
Measuring Accumulation Kinetics of Nanoparticles Post Traumatic Brain Injury Using DCE-MRI
Alexander Magsam[1], Hunter Miller[1], Aria Tarudji[1], and Forrest Kievit[1]
[1]*University of Nebraska-Lincoln, Lincoln, NE*

FR-328
Exploring Optical and Magnetic Properties of Novel Prussian Blue Nanocubes for Imaging and Therapy
Fiona Splaine[1], Stanislav Emelianov[1,2], and Kelsey Kubelick[1]
[1]*Georgia Institute of Technology & Emory University, Atlanta, GA,* [2]*Georgia Institute of Technology, Atlanta, GA*

FR-329
Radiopacity Optimization of a Novel Liquid Embolic
April Huckleberry[1], James Gilbert[1], William Merritt[1], and Timothy Becker[1]
[1]*Northern Arizona University, Flagstaff, AZ*

FR-330
Surface Functionalization of ICG-encapsulated PNIPAM Nanoparticles for Molecular Ultrasound-switchable Fluorescence Imaging
Yang Liu[1], Shuai Yu[1], Tingfeng Yao[1], Ruilin Liu[1], Kytai Nguyen[1], Yi Hong[1], and Baohong Yuan[1]
[1]*The University of Texas at Arlington, Arlington, TX*

FR-331
Novel NIR-II Molecular Probe as Contrast Agent for Photoacoustic Imaging
Vadakkancheril Jisha[1], Heechul Yoon[1], Donald VanderLaan[1], and Stanislav Emelianov[1,2]
[1]*Georgia Institute of Technology, Atlanta, GA,* [2]*Emory University School of Medicine, Atlanta, GA*

Track: Biomedical Imaging and Instrumentation

Biomedical Imaging and Instrumentation-Other/Non-specified

FR-332
Removing Problematic Reflection Artifacts from Photoacoustic Images Using Deep Neural Networks
Derek Allman[1] and Muyinatu Bell[1]
[1]*Johns Hopkins University, Baltimore, MD*

FR-333
Automated Artifact Detection for Large Physiological Waveform Database
Teshaun Francis[1], Balagangadhar Totapally[2], and Wei-Chiang Lin[1]
[1]*Florida International University, Miami, FL,* [2]*Nicklaus Children's Hospital, Miami, FL*

FR-334
Health Wearable Devices for Patients with Obesity
Wei-Chiang Lin[1], Tananant Boonya-ananta[1], Andres Rodriguez[1], and Jessica Ramella-Roman[1]
[1]*Florida International University, Miami, FL*

FR-335
Integrating Light-Sheet Imaging with Interactive Virtual Reality to Recapitulate Cardiac Mechanics and Physiology
Chih-Chiang Chang[1], Yichen Ding[1], Arash Abiri[2], Parinaz Abiri[1], Kyung In Baek[1], Rene Packard[1], and Tzung Hsiai[1]
[1]*UCLA, Los Angeles, CA,* [2]*UCI, Irvine, CA*

FR-336
Development of Classifier Models for Pore Size Characterization Via Atomic Force Microscopy Analysis
Huong Chau[1], Maryam Mobed-Miremadi[1], Unyoung Kim[1], and Richard Barber[1]
[1]Santa Clara University, Santa Clara, CA