



**UNITED** Scientific Group  
A Non-profit Scientific Organization

# Advanced Biomedical Engineering and Instrumentation Summit

**JUNE  
3-5  
2019**

Exhibitor



Crowne Plaza  
San Francisco Airport Hotel  
1177 Airport Blvd, Burlingame  
CA



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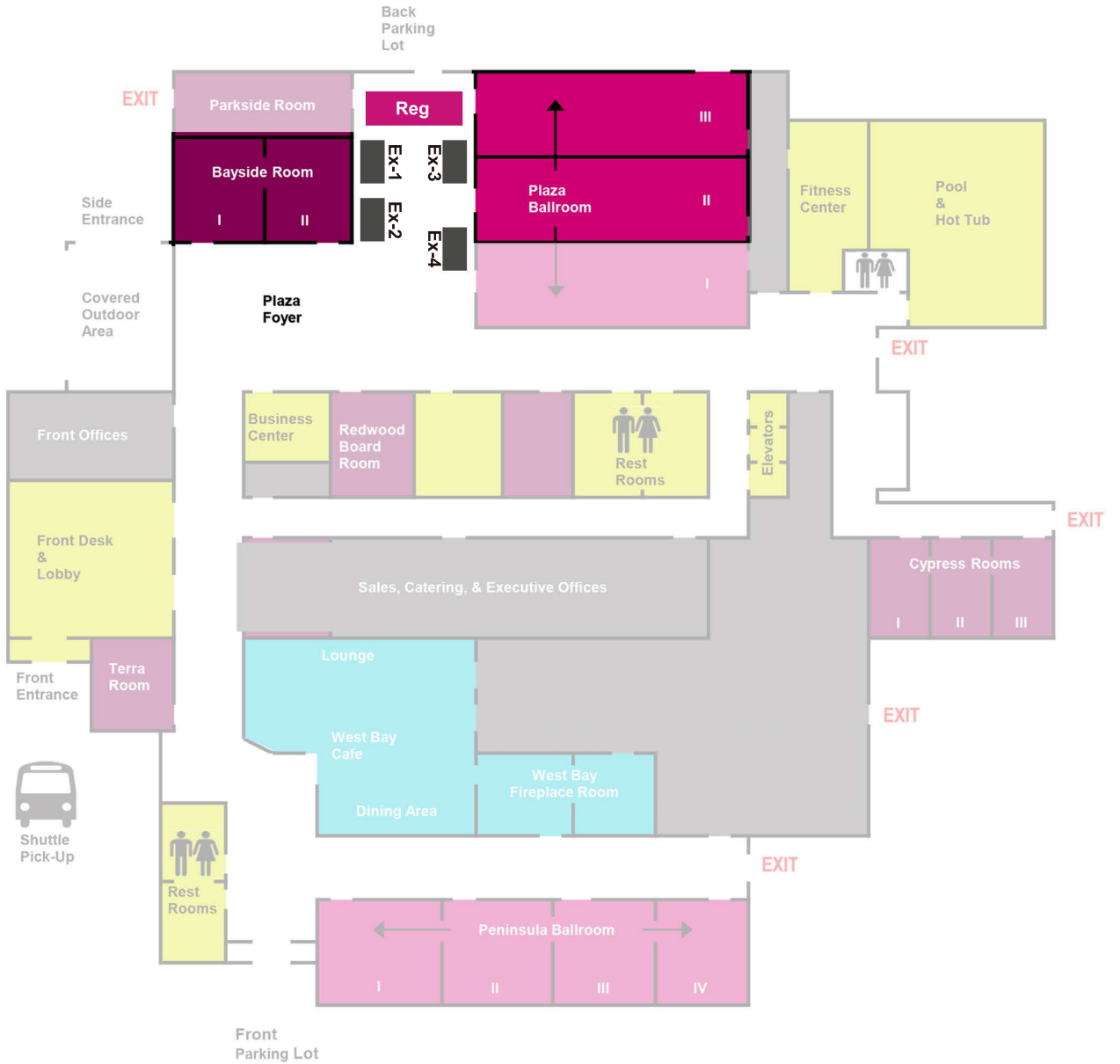
**ABEIS-2019**



# Venue Floor Plan



**CROWNE PLAZA**  
SAN FRANCISCO AIRPORT



## About CELLINK

The first bioink company in the world

CELLINK designs and develops bioprinting technologies that enable researchers to 3D print organs and tissue for applications that span industries, from pharmaceutical to cosmetic. Our patent-pending bioink is a biomaterial innovation that allows human cells to grow and thrive as they would in their natural environment. Researchers leverage our technologies to print liver, cartilage, skin tissues and more. Join us on our journey to change the future of medicine.



## Our Products



**BIO X**



**INKREDIBLE and INKREDIBLE+**



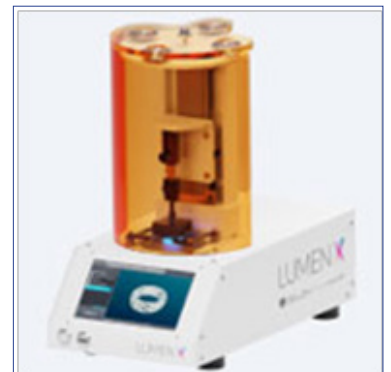
**CELLCYTE X**



**Holograph X**



**I-DOT One**



**Lumen X**

**DAY 1**  
MONDAY | JUNE 03, 2019

08:30-09:00 ABEIS-2019 Registrations

09:00-09:10 Inaugural Address by [Jie Jayne Wu](#), The University of Tennessee, TN

**Keynote Session**

**@ PLAZA III ROOM**

09:10-09:55 **The Rise of Modern Genetic Engineering Tools: And our Responsibility to Introduce the Ethical and Societal Implications to our students and the Public**  
Temple F. Smith, Boston University, MA

09:55-10:40 **Synaptic Mitochondria are More Susceptible to Traumatic Brain Injury-Induced Oxidative Damage and Respiratory Dysfunction than Non-Synaptic Mitochondria: Neuroprotective Effects of Cyclosporine A**  
Edward D. Hall, University of Kentucky, KY

**10:40-11:00 Coffee Break @ FOYER AREA**

11:00-11:45 **Virtual Biopsies of Tissues and Carcinomas using Vibrational Optical Coherence Tomography**  
Frederick H. Silver, Rutgers University, NJ

11:45-12:30 **Advances in Integrated Multimodality Intravascular Imaging for Assessing and Characterizing Atherosclerotic Plaques**  
Zhongping Chen, University of California, Irvine, CA

12:30-13:15 **Innovation in Skin Pharmacology**  
Howard Maibach, University of California, San Francisco, CA

**13:15-14:05 Lunch @ PLAZA II ROOM**

**Session- 1 Medical Imaging Techniques, Biomedical Signal and Image Processing  
3D Bio Printing**

**Chair: Temple F. Smith, Boston University, MA**

14:05-14:30 **Ultrasound-Switchable Fluorescence Imaging in Living Tissues**  
Baohong Yuan, University of Texas at Arlington, TX

14:30-14:55 **Imaging of Ophthalmic Surgical Dynamics using Intraoperative Spectrally Encoded Coherence Tomography and Reflectometry (iSECTR)**  
Yuankai Tao, Vanderbilt University, TN

14:55-15:20 **Hyperspectral Imaging in Short Wave Infrared**  
Mikhail Berezin, Washington University in St. Louis, MO

15:20-15:45 **Blood Flow Velocimetry using Divergence-compensatory Optical Flow Method and its Accuracy Analysis**  
Zifeng Yang, Wright State University, OH

**15:45-16:05 Coffee Break @ FOYER AREA**

16:05-16:30 **A Novel Gallstone Gene, Lith18, Enhances the Formation of Estrogen-Induced Cholesterol Gallstones in Female Mice**  
David Wang, Albert Einstein College of Medicine, NY

- 16:30-17:00 **Reactive Oxygen Species Upregulate Expression of Muscle Atrophy-Associated Ubiquitin Ligase Cbl-B in Rat L6 Skeletal Muscle Cells**  
Takayuki Uchida and Takeshi Nikawa, Tokushima University, Japan
- 17:00-17:25 **Development of a Computer Aided System for the Early Detection of Breast Cancer using Thermogram Images**  
Dayakshini, St. Joseph Engineering College, India
- 17:25-17:50 **3D Biomodelling**  
Vlad Ciobotaru, Hôpital Privé Les Franciscaines, France

**DAY 2**  
TUESDAY | JUNE 04, 2019

**Keynote Session**

**@ PLAZA III ROOM**

- 09:30-10:15 **Bioengineered Microphysiological Systems for Drug Safety and Efficacy Testing**  
Danilo A. Tagle, National Institute of Health, MD
- 10:15-11:00 **Portable Neuroimaging and Neuromodulation Technologies for Neuropsychiatric Disorders**  
Lei Ding, University of Oklahoma, OK

**11:00-11:20 Coffee Break**

**@ FOYER AREA**

**Session-2 Brain Research, Biomaterials, Tissue Engineering**

**Chairs:** Jang-Yen Wu, Florida Atlantic University, FL  
David Wang, Albert Einstein College of Medicine, NY

- 11:20-11:45 **Granulocyte Colony Stimulating Factor (GCSF) Gene Therapy in Stroke and Alzheimer's Disease Model**  
Jang-Yen Wu, Florida Atlantic University, FL
- 11:45-12:10 **Dynamic Brain Functional Connectivity Informed by Brain Anatomy**  
Suprateek Kundu, Emory University, GA
- 12:10-12:35 **Encapsulation of Surfactant Protein A in Biopolymers as a Potential Therapeutic Agent in Sinusitis**  
George Noutsios, Arizona State University, AZ
- 12:35-13:00 **Image-Guided Surgery using Near Infrared Turn-ON Nanoprobes for Precise Detection of Tumor Margins**  
Rachel Blau, Tel Aviv University, Israel
- 13:00-13:25 **A Bioreactor System for the Cultivation of a Tissue-Engineered Vascular Graft**  
Sebastian Heene, Leibniz University Hannover, Germany

**13:25-14:10 Lunch**

**@ PLAZA II ROOM**

- 14:10-14:35 **Mechanical Properties and *In vitro* Biodegradation of Porous Zn alloy Scaffolds for Biomedical Applications**  
Chunxiang Cui, Hebei University of Technology, China

- 14:35-15:00 **Rational Design of *In situ* Tissue Engineered Vascular Grafts in Aged Hosts**  
Piyusha Gade, University of Pittsburgh, PA
- 15:00-15:25 **Expression of HIF 10 alpha, TERT, XIAP, p53, Caspase3 in 24 denovo Glioblastoma Patients**  
Rama Shanker Verma, IIT Madras, India
- 15:25-15:50 **Laparoscopic Extraperitoneal Uterine Suspension with Suture line Instead of Mesh**  
Jing Liang, China-Japan Friendship Hospital, China
- 15:50-16:15 **Modeling Hydrodynamics and Nutrient Transport Inside a Bioreactor with Deformable Scaffold**  
G P Raja Sekhar, IIT Kharagpur, India

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**16:15-16:35 Coffee Break** **@ FOYER AREA**

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**16:35-17:15 Posters Session** **@ BAYSIDE ROOM**

- P-01** **UV-NBS Photocrosslinking of Antibodies utilizing Various Light Intensities**  
Celia Ochoa, Indiana University School of Medicine, IN
- P-02** **Stability of Hyaluronic Acid Nanoparticles under the Simulated Conditions Associated with their Bio-applicability**  
Zuzana Bilkova, University of Pardubice, Czech Republic
- P-03** **Gene Therapy of Non-alcoholic Fatty Liver Disease (NAFLD) in Mice**  
David Wang, Albert Einstein College of Medicine, NY
- P-04** **PCL-Based Nanofibrous Scaffolds for Neural Tissue Engineering**  
Manar El-Naggar, The American University in Cairo, Egypt
- P-05** **Cylindrical Reactor for Treatment of Biomedical Surfaces by Plasma Electrolytic Oxidation**  
Karenina Paiva, Federal University, Brazil
- P-06** **Image-guided Surgery using Near Infrared Turn-on Nanoprobes for Precise Detection of Tumor Margins**  
Rachel Blau, Tel Aviv University, Israel
- P-07** **Management of Pleural Empyema Using VATS with Jet-Lavage System**  
Eduard Kusch, Sankt Elisabeth Hospital Gutersloh, Germany

**DAY 3**  
WEDNESDAY | JUNE 05, 2019

**Session 3**    **Biomedical Equipment's & Sensors Technology, Wearable Technology & IoT, Artificial Intelligence in Healthcare**

**@ PLAZA III ROOM**

**Chairs:**    **Qiquan Qiao, South Dakota State University, SD**  
**Avijit Goswami, Amazon Web Services, CA**

08:00-08:25    **Sensors for Biological Fluids: From Solid Electrodes to Paper-Based Devices**  
Sadagopan Krishnan, Oklahoma State University, OK

08:25-08:50    **Electrochemical Phosphate Sensors using Silver Nanowires Treated Screen Printed Electrodes**  
Qiquan Qiao, South Dakota State University, SD

08:50-09:15    **A Simple and Low Cost Biosensor for Point-of-Care Detection in Health Care and Environmental Monitoring**  
Jie Jayne Wu, The University of Tennessee, TN

09:15-09:40    **Integrated Multi-analyte Sensor and Instrumentation for Real-Time Chemical Imaging**  
Thomas Chen, Colorado State University, CO

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**09:40-10:00**    **Coffee Break** **@ FOYER AREA**

10:00-10:25    **Measuring Cell Sickling using a Portable Electrical Impedance-Based Sensor**  
Sarah Du, Florida Atlantic University, FL

10:25-10:50    **An Artificial Intelligent Smart Brace System for the Treatment of Adolescent Idiopathic Scoliosis**  
Edmond Lou, University of Alberta, Canada

10:50-11:15    **Prediction of Organ-at-Risk Vulnerability to Excessive Radiation Dosage: Application of Deep Neural Network in Radiation Treatment Planning for Prostate Cancer Patients**  
Maryam Tavakoli, University of North Carolina, NC

11:15-11:40    **Light Focusing Inside Scattering Media via Digital Optical Phase Conjugation Technology**  
Jiamiao Yang, California Institute of Technology, CA

11:40-12:05    **Predictive Medication using Cloud Computing**  
Avijit Goswami, Amazon Web Services, CA

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**12:05**    **Lunch & Departures** **@ PLAZA II ROOM**

***Thank you for attending !***



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