

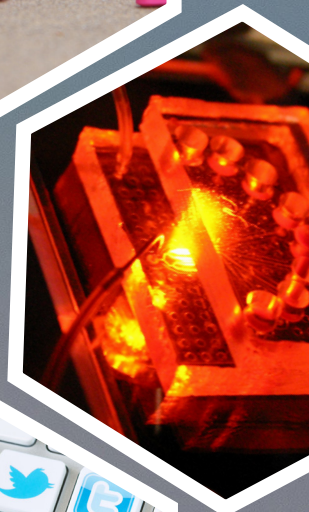
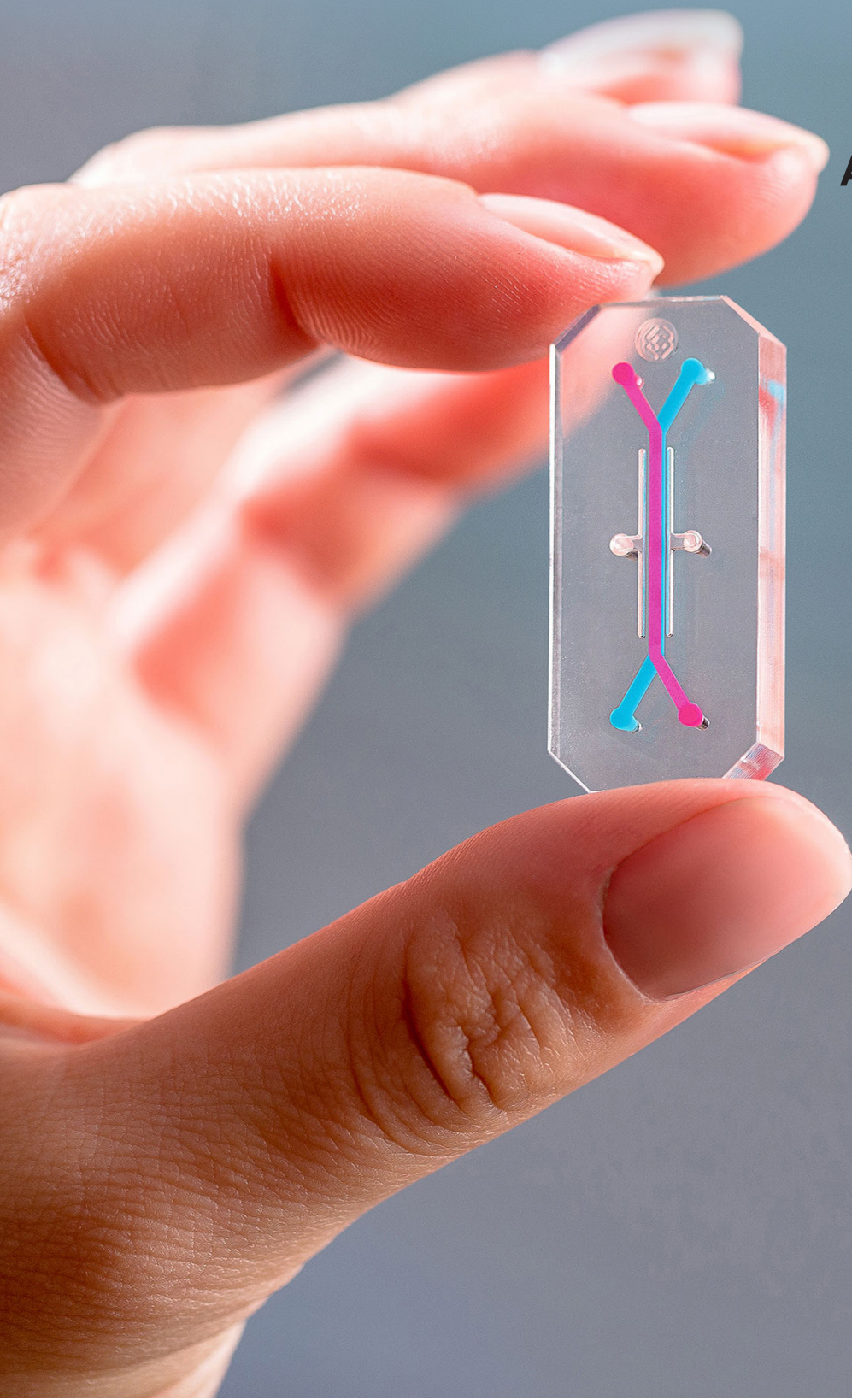
Joint Event on

# INTERNATIONAL MICROFLUIDICS CONGRESS

&  
International Conference on

# ADDICTION RESEARCH AND THERAPY

August 13-14, 2018  
San Diego, USA



August 13, 2018

Agenda

Day 1

Conference Hall: Hilcrest-1

09:00-9:30

Registration

09:30-09:45

Opening Ceremony

09:45-10:00

Introduction by Moderator

10:00-10:30

**Keynote Forum**

**Title: Mechanically valved centrifugal microfluidic technology and the applications**  
Wanjun Wang, Louisiana State University, USA

10:30-11:00

**Title: Addiction therapy from vicious to productive behaviors and the role of Haqua Revitalize™ therapy-HART**  
Faris AlHajri, AlHajri Holistic Health & Wellness LLC, USA

11:00-11:05

Group Photo

Networking & Refreshment Break 11:05-11:20 @ Hilcrest -I

11:20-11:50

**Keynote Forum**

**Title: Visual or electrical sensing feedback assisted active control of droplets in microchannels towards automated, modular lab-on-a-chip platform**  
Carolyn Ren, University Of Waterloo, Canada

11:50-12:20

**Title: Application of micro- and nano-fluidics in petroleum industry**  
Prem Bikkina, Oklahoma State University, USA

12:20-12:50

**Title: Lateral flow microfluidic device for concentration of cells sub-populations**  
Pizzi Marco, Eltek Group, Italy

Lunch Break 12:50-14:00 @ North Park

14:00-14:30

**Keynote Forum**

**Title: Automated venting technique used in microfluidic digital logic lab-on-a-chip device**  
Manasi Rajee, TL Biolabs, USA

14:30-15:00

**Title: Smelling through microfluidic olfaction technology**  
Mina Hoorfar, University of British Columbia, Canada

15:00-15:30

**Title: Family crisis – relationship crisis – addiction crisis**  
Scott H Silverman, Confidential Recovery, USA

15:30-15:45

**Title: Filmetrics**  
Scott Chalmers, Filmetrics, USA

### Workshop

15:45-16:30

**Title: Surface evolver modeling of capillary micro-channels**

Steven H Collicott, Purdue University, USA

Networking & Refreshment Break 16:30-16:45 @ Hilcrest - I

### Special Session

16:45-17:15

**Title: Functional and structural cytometry of ultrasound-assisted 3D cell cultures**

Martin Wiklund, Karolinska Institute, Sweden

### Oral Session I:

Microfluidics Research and Advances | Holistic and Alternative Medicine Approaches

Session Chair: **Manasi Raje**, TL Biolabs, USA

Session Co-chair: **Faris AlHajri**, AlHajri Holistic Health & Wellness LLC, USA

17:15-17:35

**Title: Motility behavior of vibrio natriegens in micro-confined environments**

Ayyappasamy Sudalaiyadum Perumal, McGill University, USA

17:35-17:55

**Title: Bisoma five element acupuncture**

David Lee, Acupuncturist and an Asian herbal medicine practitioner, USA

17:55-18:15

**Title: Prevalence and patterns of substance abuse Dhaka, Bangladesh: A cross cultural reflection**

Md Abdul Mohit, Bangladesh

Session Adjournment

August 14, 2018

Day 2

9:45-10:00

Introduction by Moderator

Conference Hall: Hilcrest - I

10:00-10:30

### Keynote Presentation

**Title: Adding new functions to microfluidic devices**

Hiroaki Suzuki, University of Tsukuba, Japan

10:30-11:00

**Title: Droplet generation and coalescence in microchannel junctions**

Kai Wang, Tsinghua University, China

Networking & Refreshment Break 11:00-11:15 @ Hilcrest - I

11:15-11:45

### Keynote Presentation

**Title: Point-of-care testing technologies for a liquid-based biopsy tool**

SangJun Moon, UNIST, Korea

11:45-12:15

**Title: Micro ESR: On chip magnetic resonance spectroscopy of microliter samples**

Romana Schirhagl, University Medical Center Groningen, Netherlands



### Keynote Presentation

12:15-12:45

**Title: Analysis and modeling of capillary fluid statics in microchannels with gravity**  
Steven H Collicott, Purdue University, USA

**Lunch Break 12:45-13:45 @ North Park**

13:45-14:15

**Title: Magnetic nanoparticles and sensors for biomedical applications**  
Georgios Kokkinis, TU Wien, Austria

14:15-14:45

**Title: Unfixing the electric field gradients: Active colloids as mobile microelectrodes for unified label-free selective cargo transport**  
Gilad Yossifon, Technion-Israel Institute of Technology, Israel

14:45-15:30

### Workshop

**Title: Addiction therapy from vicious to productive behaviors and the role of Haqua Revitalize™ Therapy-HART**  
Faris AlHajri, AlHajri Holistic Health & Wellness LLC, USA

15:30-16:00

### Special Session

**Title: Design and fabrication of integrated EWOD microfluidic chips for biological applications**  
Manasi Raje, TL Biolabs, USA

**Networking & Refreshment Break 16:00-16:15 @ Hilcrest - I**

### Young Research Forum:

Judge: **Mina Hoorfar**, University of British Columbia, Canada

16:15-16:35

**Title: Universal lab-on-a-chip platform for culturing and investigation of microorganisms biological potential**  
Agnieszka Podwin, Wroclaw University of Science and Technology, Poland

16:35-16:55

**Title: Automated, multichannel femtoliter bead-in-droplet formation for beaming**  
Hiroyasu Takei, Sysmex Corporation, Japan

16:55-17:40

### Special Session

**Title: Microfluidics-directed self-assembly of DNA-based nanoparticles**  
Guillaume Tresset, University Paris-Saclay, France

**Poster Presentations 16:00-16:30**

Poster Judges: **Manasi Raje**, TL Biolabs, USA  
**Steven H Collicott**, Purdue University, USA

**MF-01**

**Title: Development of a glucose sensor integrated microfluidic device for cell based assay**  
Hiroshi Kimura, Tokai University, Japan

MF-02

**Title: Effects of nano-/micro-tricalcium phosphate particles on the control of alginate film properties for bone tissue engineering and Microfluidics**

Insup Noh, Seoul National University of Science and Technology, Korea

MF-03

**Title: Cell retention on zein electrospun fiber films**

Jin-Ye Wang, Shanghai Jiaotong University, China

MF-04

**Title: Micro-Nano hydraulics in hetero-structures developed for nuclear applications**

Liviu Popa Simil, Los Alamos Academy of Sciences, USA

MF-05

**Title: Comparison of three different types of cilostazol-loaded solid dispersion: Physicochemical characterization and pharmacokinetics in rats**

Shumaila Shafique, Dow University of Health Sciences, Pakistan

MF-06

**Title: Novel electrosprayed nanospherules for enhanced aqueous solubility and oral bioavailability of poorly water-soluble fenofibrate**

Omer Mustapha, Hanyang University, South Korea

MF-07

**Title: Novel integrated micropump for high-throughput DEP-based microfluidics**

Berke Erbas, Istanbul Technical University, Turkey

Conference Adjournment

