

**International Society for Extracellular Vesicles
2018 Workshop**

EV-based Clinical Theranostics

November 18-20, 2018

**Southern Medical University
Guangzhou, China**

Location:

Southern Medical University
Chunjiang Hall, Qiushuitang Building
1838 Guangzhou Avenue North, Guangzhou

International Organizing Committee

Chair: Lei Zheng, Southern Medical University, China
Qian Wang, Southern Medical University, China
Hang Hubert Yin, Tsinghua University, China
Yong Song Gho, Pohang University of Science and Technology, Korea
Kenneth W. Witwer, Johns Hopkins University, USA
Marca Wauben, Utrecht University, Netherlands
Andrew Hill, La Trobe University, Australia
Lorraine O'Driscoll, Trinity College Dublin, Ireland

Thanks to our Sponsors

Beagle biotech, Jiangsu, China (贝格尔)
Sagene, Guangzhou, China (赛哲生物)
Beckman, China (贝克曼)
QIAGEN, Shanghai, China (凯杰生物)
Izon Science Ltd., et al.

Day 1: Sunday, November 18

14:30-20:00 Registration

17:00-21:00 Dinner, Southern Hotel

Day 2: Monday, November 19

8:00-8:20 Group photos

Opening Remarks
Chairperson: (Lei Zheng)

8:20-8:35 Welcome, Outline and the Value of ISEV Seminars and Outputs

Qian Wang, Southern Medical University, Guangzhou, China

Kenneth W. Witwer, Johns Hopkins University, ISEV Chair of Science and Meetings

8:35-8:45 Why this Workshop? Addressing Big Questions in EV biomarkers and applications

Andrew Hill, La Trobe University, Australia

Topic #1: EV isolation methods and standardization
Chairpersons: (Hang Hubert Yin, Kenneth W. Witwer)

8:45-9:15 MISEV in clinical application

Kenneth W. Witwer, Johns Hopkins University, USA

9:15-9:45 Extracellular vesicle-mimetic technologies for theranostics

Yong Song Gho, Pohang University of Science and Technology, Korea

Abstract 1: 9:45-10:00 Rapid Isolation and Detection of Extracellular Vesicles from Plasma for Lung Cancer Diagnosis

Junge Chen, Tsinghua University, China

10:00-10:30 Networking Coffee Break and Sponsor Exhibition

10:30-11:00 Separation and Characterization of Extracellular Vesicles from Human Plasma by Asymmetrical Flow Field-Flow Fractionation

Fuquan Yang, Institute of Biophysics, Chinese Academy of Sciences, China

Abstract 2: 11:00-11:15 Gold Nano Island Based Lab on Chips for Detection and Isolation of Exosomes

Muthukumaran Packirisamy, Concordia University, Canada

Abstract 3: 11:15-11:30 PCR measurement of exosomal microRNAs in cancer patient serum samples coupled with a CFDA-approved quick exosome isolation method

Tong Wang, Jinan University, Guangzhou, China

11:30 to 13:30 Lunch Break (Yiyuan Restaurant) and Sponsor Exhibition

Topic #2: EV omics analysis and biomarker discovery
Chairpersons: (Juan M Falcon Perez, Carolina Soekmadji)

13:30-14:00 A decade of asking to the Extracellular Vesicles for low-invasive Biomarkers: achievements and next challenges

Juan M Falcon Perez, CIC bioGUNE, Bizkaia Technology Park, Biscay, Spain

Abstract 4: 14:00-14:15 Anchor peptide captures, targets and loads exosomes of diverse origins for diagnostics and therapy

HaiFang Yin, Tianjin Medical University, China

14:15-14:45 Assessment on the heterogeneity of extracellular vesicles in prostate cancer

Carolina Soekmadji, Queensland Institute of Medical Research, Australia

Abstract 5: 14:45-15:00 Lipidomic Analysis of Phospholipids in Exocellular Vesicles

Wenpeng Zhang, Tsinghua University, Purdue University, China

15:00-15:30 Coffee Break and Sponsor Exhibition

15:30-16: 00 Membrane curvature and lipid composition sensors targeting extracellular vesicles

Hang Hubert Yin, TsingHua University, China

16:00-16:30 EV omics analysis and biomarker discovery

Andrew Hill, La Trobe University, Australia

Abstract 6: 16:30-16:45 Transcriptome and Proteome of Extracellular Vesicles in Diabetic Kidney Target Cells In-Vitro

Harry Holthofer, University of Helsinki, Finland

Abstract 7: 16:45-17:00 miRNA exosomal biomarkers in neurodegenerative diseases

Lesley Cheng, La Trobe University, Australia

17:00-17:10 SPONSORED PRESENTATION: (江苏贝格尔)

Roundtable Discussion

Topic #1: EV isolation methods and standardization

(Chairpersons: Hang Hubert Yin, Kenneth W. Witwer)

(*Chunjiang Hall in Qiushuitang Building*)

17:10-18:30 Roundtable Discussion

18:30-18:45 Wrap-up

Topic #2: EV omics analysis and biomarker discovery

(Chairpersons: Juan M Falcon Perez, Carolina Soekmadji)

(*Yuese Hall in Qiushuitang Building*)

17:10-18:30 Roundtable Discussion

18:30-18:45 Wrap-up

19:00-21:00 Banquet, Southern Hotel

Day 3: Tuesday, November 20

Topic #3: EV biomarker detection and application in clinical diagnosis

Chairpersons: (Lei Zheng, Ana Claudia Torrecilhas)

8:30-9:00 Flow cytometric analysis of the molecular composition of the circulating extracellular vesicle pool

Marca Wauben, Utrecht University, Utrecht, the Netherlands

9:00-9:30 Glycosylation of integrins on tumor-derived exosomes involves in cancer progression

Tang-long Shen, National Taiwan University, Taiwan, China

Abstract 8: 9:30-9:45 Lipid Profiling of Extracellular Vesicles Isolated from Different Cell Sources by NanoCytometry and ESI-MS

Xiaomei Yan, Xiamen University, Xiamen, China

Abstract 9: 9:45-10:00 Single-exosome-counting immunoassays for cancer diagnostics

Lei Zheng, Southern Medical University, China

10:00-10:30 Coffee Break and Sponsor Exhibition

10:30-11:00 Extracellular Vesicles Modulate host Immune Response in Protozoa Infection

Ana Claudia Torrecilhas, Universidade Federal de São Paulo, São Paulo, Brazil

Abstract 10: 11:00-11:15 Exosome contained Long Non-coding RNA, CoroMarker, a Novel Biomarker for Diagnosis of Coronary Artery Disease

Yue Cai, Daping hospital, Third military medical university, China

Abstract 11: 11:15-11:30 Diagnostic value of brain tissue and plasma derived extracellular vesicle microRNAs in SIV-infected pigtailed macaques

Yiyao Huang, Nanfang Hospital, Southern Medical University, China

11:30-13:30 Lunch Break (Yiyuan Restaurant) and Sponsor Exhibition

Topic #4: EV-based therapy in human disease
Chairpersons: (Minh T.N. Le, Sai Kiang Lim)

13:30-14:00 Pluripotent stem cell derived exosomes for regenerative medicine

Yang Wang, Institute of Microsurgery on Extremities, Shanghai Jiaotong University
Affiliated Sixth People' Hospital, China

**14:00-14:30 Exploiting the unique protein and lipid permutation in different plasma
EV types for biomarker discovery**

Sai Kiang Lim, Institute of Medical Biology, Singapore

Abstract 12: 14:30-14:45 Umbilical cord mesenchymal stem cell EV based disease
prevention and therapy

Yongmin Yan, Jiangsu University, China

Abstract 13: 14:45-15:00 HIV-specific antibody mediated targeting of ENV+ tissues by
exosomes

Xue Zou, Nanjing University, China

15:00-15:30 Coffee break and Sponsor Exhibition

**15:30-16:00 Harnessing extracellular vesicles from human red blood cells for gene
therapies against cancer**

Minh T.N. Le, City University of Hong Kong, Hong Kong, China

Abstract 14: 16:00-16:15 Use of helminth EVs to control parasitic and autoimmune
diseases

Antonio Marcilla, Universitat de Valencia, Spain

16:15-16:25 SPONSORED PRESENTATION: (Sagene, 广州赛哲)

16:25-16:35 SPONSORED PRESENTATION: (Izon Science)

Roundtable Discussion

Topic #3: EV biomarker detection and application in clinical diagnosis

(Chairpersons: Lei Zheng, Ana Claudia Torrecilhas)

(Chunjiang Hall in Qiushuitang Building)

16:35-17:55 Roundtable Discussion

17:55-18:10 Wrap-up

Topic #4: EV-based therapy in human disease
(Chairpersons: Minh T.N. Le, Sai Kiang Lim)
(Yuese Hall in Qiushuitang Building)

16:35-17:55 Roundtable Discussion
17:55-18:10 Wrap-up

18:10-18:30 Closing Remarks & Farewell

19:00-21:00 Farewell dinner, Huiqiao Building