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	5b. GRANT NUMBER
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6. AUTHORS Peter Quesenberry	5d. PROJECT NUMBER
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14. ABSTRACT The meeting presented cutting edge research on the molecular, cellular and clinical translational aspects of the structure and function of extracellular vesicles and RNA. The conference featured a wide range of topics such as vesicle isolation and characterization with an emphasis on protein content, extracellular RNA, extracellular vesicle biogenesis, vesicle cargo loading and targeting RNA, extracellular vesicles in tissue injury and repair, the role of extracellular vesicles in inflammation, extracellular vesicles in cancer, extracellular vesicles and thrombosis, extracellular vesicles in neurobiology and non-mammalian and plant extracellular vesicles. Invited speakers
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b. ABSTRACT UU			
c. THIS PAGE UU			

Report Title

Final Report: 2016 Extracellular Vesicles: Biologic Effects and Therapeutic Potential of Extracellular Vesicles
Gordon Research Conference Research Area 8.0 - Life Sciences - 2.a. Conferences and Symposia

ABSTRACT

The meeting presented cutting edge research on the molecular, cellular and clinical translational aspects of the structure and function of extracellular vesicles and RNA. The conference featured a wide range of topics such as vesicle isolation and characterization with an emphasis on protein content, extracellular RNA, extracellular vesicle biogenesis, vesicle cargo loading and targeting RNA, extracellular vesicles in tissue injury and repair, the role of extracellular vesicles in inflammation, extracellular vesicles in cancer, extracellular vesicles and thrombosis, extracellular vesicles in neurobiology and non-mammalian and plant extracellular vesicles. Invited speakers represented a variety of scientific and clinical disciplines including biochemistry, molecular genetics, cell biology, cardiovascular biology, hematology, oncology, pulmonary medicine, and neurobiology. The conference brought together a collection of investigators who are at the forefront of their field and provided opportunities for junior scientists and graduate students to present their work in poster format and exchange ideas with leaders in the field. Some poster presenters were selected for short talks. The collegial atmosphere of this conference, with programmed discussion sessions as well as opportunities for informal gatherings in the afternoons and evenings, provided an avenue for scientists from different disciplines to brainstorm and promote cross-disciplinary collaborations in the various research areas.

Enter List of papers submitted or published that acknowledge ARO support from the start of the project to the date of this printing. List the papers, including journal references, in the following categories:

(a) Papers published in peer-reviewed journals (N/A for none)

Received Paper

TOTAL:

Number of Papers published in peer-reviewed journals:

(b) Papers published in non-peer-reviewed journals (N/A for none)

Received Paper

TOTAL:

Number of Papers published in non peer-reviewed journals:

(c) Presentations

Number of Presentations: 0.00

Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Non Peer-Reviewed Conference Proceeding publications (other than abstracts):

Peer-Reviewed Conference Proceeding publications (other than abstracts):

Received Paper

TOTAL:

Number of Peer-Reviewed Conference Proceeding publications (other than abstracts):

(d) Manuscripts

Received Paper

TOTAL:

Number of Manuscripts:

Books

Received Book

TOTAL:

Received

Book Chapter

TOTAL:

Patents Submitted

Patents Awarded

Awards

Graduate Students

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Post Doctorates

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Faculty Supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Names of Under Graduate students supported

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Student Metrics

This section only applies to graduating undergraduates supported by this agreement in this reporting period

The number of undergraduates funded by this agreement who graduated during this period:

The number of undergraduates funded by this agreement who graduated during this period with a degree in science, mathematics, engineering, or technology fields:.....

The number of undergraduates funded by your agreement who graduated during this period and will continue to pursue a graduate or Ph.D. degree in science, mathematics, engineering, or technology fields:.....

Number of graduating undergraduates who achieved a 3.5 GPA to 4.0 (4.0 max scale):.....

Number of graduating undergraduates funded by a DoD funded Center of Excellence grant for Education, Research and Engineering:.....

The number of undergraduates funded by your agreement who graduated during this period and intend to work for the Department of Defense

The number of undergraduates funded by your agreement who graduated during this period and will receive scholarships or fellowships for further studies in science, mathematics, engineering or technology fields:

Names of Personnel receiving masters degrees

<u>NAME</u>
Total Number:

Names of personnel receiving PHDs

<u>NAME</u>
Total Number:

Names of other research staff

<u>NAME</u>	<u>PERCENT SUPPORTED</u>
FTE Equivalent:	
Total Number:	

Sub Contractors (DD882)

Inventions (DD882)

Scientific Progress

Technology Transfer



GORDON RESEARCH CONFERENCES

FINAL PROGRESS REPORT

Army Research Office
Extracellular Vesicles GRC

Grant Number W911NF-16-1-0100
August 21-26, 2016

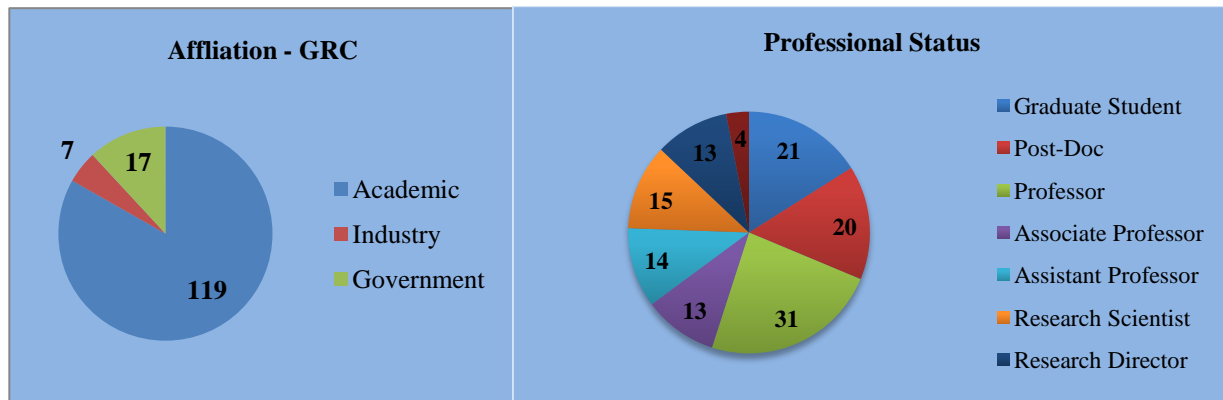
Operational Summary

The Gordon Research Conference (GRC) on Extracellular Vesicles was held at the Sunday River in Newry, Maine from August 21-26, 2016. The meeting covered a variety of scientific topics and the content presented was highly rated by participants.



Conference Participants

The Conference was well-attended with 143 participants. Scientists from academia represented 83% of the participants while attendees from government accounted for 5% and those from industry totaled 12%. The meeting also attracted a strong mix of young investigators and senior scientists. Students and post-docs accounted for 29% of all attendees. Approximately 46% of the participants at the 2016 meeting were women.



Conference Program

The 2016 Gordon Research Conference titled "Extracellular Vesicles" presented cutting edge research on the molecular, cellular and clinical translational aspects of the structure and function of extracellular vesicles and RNA. The conference featured a wide range of topics such as vesicle isolation and characterization with an emphasis on protein content, extracellular RNA, extracellular vesicle biogenesis, vesicle cargo loading and targeting RNA, extracellular vesicles in tissue injury and repair, the role of extracellular vesicles in inflammation, extracellular vesicles in cancer, extracellular vesicles and thrombosis, extracellular vesicles in neurobiology and non-mammalian and plant extracellular vesicles. Invited speakers represented a variety of scientific and clinical disciplines including biochemistry, molecular genetics, cell biology, cardiovascular biology, hematology, oncology, pulmonary medicine, and neurobiology. The conference brought together a collection of investigators who are at the forefront of their field and provided opportunities for junior scientists and graduate students to present their work in poster format and exchange ideas with leaders in the field. Some poster presenters were selected for short talks. The collegial atmosphere of this conference, with programmed discussion sessions as well as opportunities for informal gatherings in the afternoons and evenings, provided an avenue for scientists from different disciplines to brainstorm and promote cross-disciplinary collaborations in the various research areas.

Conference Budget

Funding provided by the Army Research Office supported partial registration for 5 post docs, 4 graduate students, 8 assistant professors, 3 associate professors, 2 research scientists, 1 research director, and 2 physicians/physician scientists at the GRC

Conference Feedback

Participants had an opportunity to provide feedback at the end of the Conference. The feedback collected from the meeting was extremely positive. Evaluations included numerous positive remarks regarding the variety of topics, exposure to new methodologies, and the numerous opportunities to discuss these topics at length.

GRC would like to thank the Army Research Office for its continued support of the meetings. The contributions received from the Army Research Office have been critical to the success of the conferences and are having a measurable impact in advancing the frontiers of science worldwide.

Dr. Peter Quesenberry, GRC Chair
The Warren Alpert Medical School of Brown University

Dr. Nancy Ryan Gray
President and Chief Executive Officer
Gordon Research Conferences

Extracellular Vesicles
Gordon Research Conference
Biologic Effects and Therapeutic Potential of Extracellular Vesicles
August 21-26 2016
Sunday River
Newry, ME
Chair: Peter Quesenberry
Vice Chair: Giovanni Camussi

Contributors



Final Meeting Program

Sunday

- 2:00 pm - 9:00 pm Arrival and Check-in
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **Keynote Session: Extracellular Vesicle Isolation and Vesicle Characterization (Proteins, RNA Species, Lipids)**
Discussion Leader: **Richard Simpson** (La Trobe University, Australia)
- 7:40 pm - 8:10 pm **Edwin van der Pol** (Academic Medical Center, University of Amsterdam, The Netherlands)
"The Pathway to Single Vesicle Detection"
- 8:10 pm - 8:25 pm Discussion
- 8:25 pm - 9:10 pm **Randy Schekman** (University of California, Berkeley, USA)
"Selectivity and Mechanism of Small RNA Sorting During the Biogenesis of Exosomes"
- 9:10 pm - 9:30 pm Discussion

Monday

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Extracellular RNA
	Discussion Leader: David Wong (University of California, Los Angeles, USA)
9:00 am - 9:20 am	Esther Nolte-'t Hoen (Utrecht University, The Netherlands) "EV-Associated Small RNAs with Potential Regulatory Functions: miRNAs and Beyond"
9:20 am - 9:30 am	Discussion
9:30 am - 9:50 am	Nobuyoshi Kosaka (National Cancer Center Research Institute, Japan) "The Role of Secretory miRNAs in Cancer Development"
9:50 am - 10:00 am	Discussion
10:00 am - 10:30 am	Coffee Break
10:30 am - 10:40 am	Andrew Hoffman (Tufts University, USA) "Circulating Exosome miRNA in Naturally Occurring Canine Non-Ischemic Heart Diseases"
10:40 am - 10:45 am	Discussion
10:45 am - 11:05 am	Leonora Balaj (Massachusetts General Hospital, USA) "Characterization of the Extracellular Content Released from Glioblastoma Cells"
11:05 am - 11:15 am	Discussion
11:15 am - 11:25 am	Aleksandar Milosavljevic (Baylor College of Medicine, USA) "Community Resources from the ERCC: The exRNA Portal, the exRNA Atlas and Cloud-Hosted Tools for the Analysis of Extracellular RNA"
11:25 am - 11:30 am	Discussion
11:30 am - 11:50 am	Elie Beit-Yannai (Ben-Gurion University of the Negev, Israel) "Exosomes Mediated Signaling Within the Ocular Drainage System"
11:50 am - 12:00 pm	Discussion
12:00 pm - 12:20 pm	Reka Haraszti (University of Massachusetts Medical School, USA) "Protein and Lipid Composition Distinguishes Stem Cell EVs from Cancer Cell EVs and Affect Efficiency of EV-Mediated Small RNA Cellular Transfer"
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Extracellular Vesicle Biogenesis, Vesicle Cargo Loading and Targeting RNA

Discussion Leader: **Stephen Gould** (Johns Hopkins University School of Medicine, USA)

- 7:30 pm - 7:50 pm **Graca Raposo** (Institut Curie, France)
"Endosomal Sorting, Exosome Biogenesis Amyloid Formation, Communication: A View from Pigmentation"
- 7:50 pm - 8:00 pm Discussion
- 8:00 pm - 8:20 pm **Pascale Zimmermann** (Centre de Recherche en Cancérologie de Marseille, France / Katholieke Universiteit Leuven, Belgium)
"Syntenin-Syndecan in the Endosomal and Exosomal Control of Cell Signalling: A Vicious Circle/Target for Cancer Medicine?"
- 8:20 pm - 8:30 pm Discussion
- 8:30 pm - 8:50 pm **John Pezacki** (University of Ottawa, Canada)
"Engineered Molecular Vehicles for Small RNA Delivery"
- 8:50 pm - 9:00 pm Discussion
- 9:00 pm - 9:20 pm **Harmeet Malhi** (Mayo Clinic, USA)
"Hepatocytes Release Ceramide-Rich Proinflammatory Extracellular Vesicles in an IRE1 Alpha-Dependent Manner"
- 9:20 pm - 9:30 pm Discussion

Tuesday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Extracellular Vesicles in Tissue Injury and Tissue Repair**
Discussion Leader: **Willem Stoorvogel** (Faculty of Veterinary Medicine, Utrecht University, The Netherlands)
- 9:00 am - 9:20 am **Stefania Bruno** (University of Turin, Italy)
"Mesenchymal Stromal Cell-Derived Extracellular Vesicles Facilitate the Repair of Renal Injury"
- 9:20 am - 9:30 am Discussion
- 9:30 am - 9:50 am **Juan Sanchez-Esteban** (Brown University, USA)
"Role of Extracellular Vesicles in Fetal Lung Development"
- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:30 am Coffee Break
- 10:30 am - 10:50 am **Olin Liang** (Brown University, USA)
"Extracellular Vesicles in Pulmonary Vascular Disease: Friend or Foe"
- 10:50 am - 11:00 am Discussion

- 11:00 am - 11:10 am **David Larocca** (ReCyte Therapeutics, USA)
"Exosomes from Highly Scalable and Clonally-Derived Embryonic Vascular Progenitor Cells for Therapeutic Angiogenesis"
- 11:10 am - 11:15 am Discussion
- 11:15 am - 11:35 am **Bernd Giebel** (University of Duisburg-Essen, Germany)
"MSC-EVs, Their Way into Clinic to Treat GvHD"
- 11:35 am - 11:45 am Discussion
- 11:45 am - 11:55 am **George Daaboul** (nanoView Diagnostics, USA)
"Microarray-Based Direct from Sample Exosome Enumeration, Sizing and Phenotyping"
- 11:55 am - 12:00 pm Discussion
- 12:00 pm - 12:20 pm **Maria Brizzi** (University of Turin, Italy)
"IL-3 Pro-Angiogenic Paracrine Action: Role of Stat5 Trafficking via Endothelial Cell-Derived Extracellular Vesicles"
- 12:20 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 6:00 pm Poster Session
- 6:00 pm Dinner
- 7:30 pm - 9:30 pm **The Role of Extracellular Vesicles in Inflammation**
Discussion Leader: **Philip Askenase** (Yale University, USA)
- 7:30 pm - 7:50 pm **Paul Robbins** (The Scripps Research Institute, USA)
"Immunoregulatory Extracellular Vesicles for Treatment of Autoimmune and Age Related Diseases"
- 7:50 pm - 8:00 pm Discussion
- 8:00 pm - 8:20 pm **Edit Buzas** (Semmelweis University, Hungary)
"The Role of Extracellular Vesicles in Inflammation"
- 8:20 pm - 8:30 pm Discussion
- 8:30 pm - 8:50 pm **Margaret Alexander** (University of Utah, USA)
"Immune miRNA are Functionally Transferred Between Immune Cells Altering Response to Endotoxin"
- 8:50 pm - 9:00 pm Discussion
- 9:00 pm - 9:20 pm **Deepak Nagrath** (Rice University, USA)
"Tumor Microenvironment Derived Exosomes: A Major Player in Regulating Cancer Cell"

Metabolism"

9:20 pm - 9:30 pm Discussion

Wednesday

7:30 am - 8:30 am Breakfast

8:30 am Group Photo

9:00 am - 12:30 pm **Non-Mammalian and Plant Extracellular Vesicles**

Discussion Leader: **Meta Kuehn** (Duke University Medical Center, USA)

9:00 am - 9:20 am **Huang-Ge Zhang** (University of Louisville, USA)

"Edible Plant Exosomes: Nanoparticles for Therapy and Targeted Delivery of Therapeutic Agents"

9:20 am - 9:30 am Discussion

9:30 am - 9:50 am **Laura De La Canal** (National University of Mar del Plata, Argentina)

"Biological Activities of a Vesicle-Associated Extracellular Lectin from Sunflower"

9:50 am - 10:00 am Discussion

10:00 am - 10:30 am Coffee Break

10:30 am - 10:40 am **Lucia Languino** (Thomas Jefferson University, USA)

"The AlphaV Integrins Are Upregulated in Prostate Cancer Patient Exosomes and Modulate Exosomal Levels of Interferon-Inducible Proteins"

10:40 am - 10:45 am Discussion

10:45 am - 11:05 am **Amy Buck** (University of Edinburgh, United Kingdom)

"Vesicle and RNA Secretion by Nematode Parasites: At the Host Interface"

11:05 am - 11:15 am Discussion

11:15 am - 11:25 am **Ciro Tetta** (Unicyte AG, Switzerland)

"Human Liver Stem Cell (HLSC)-Derived Extracellular Vesicles (EVs) Improve Argininosuccinate Synthase Genetic Deficiency"

11:25 am - 11:30 am Discussion

11:30 am - 11:50 am **Kenneth Witwer** (Johns Hopkins University School of Medicine, USA)

"Extracellular Vesicles in HIV Production and Latency"

11:50 am - 12:00 pm Discussion

12:00 pm - 12:20 pm **Akira Yokoi** (National Cancer Center Research Institute, Japan)

"Malignant Extracellular Vesicles Carrying MMP1 mRNA Cause Mesothelial Exfoliation Toward Peritoneal Dissemination in Ovarian Cancer"

12:20 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Extracellular Vesicles and Thrombosis**

Discussion Leader: **Benjamin Brenner** (Rambam Health Care Campus, Technion - Israel Institute of Technology, Israel)

7:30 pm - 7:50 pm **Mary Collier** (University of Leicester, United Kingdom)

"Molecular Mechanisms Regulating Tissue Factor Incorporation into Microvesicles"

7:50 pm - 8:00 pm Discussion

8:00 pm - 8:20 pm **Nigel Mackman** (University of North Carolina at Chapel Hill, USA)

"Circulating Procoagulant Microvesicles and Thrombosis"

8:20 pm - 8:30 pm Discussion

8:30 pm - 8:50 pm **Romarc Lacroix** (Aix-Marseille University, France)

"Ambivalent Role of Microvesicles in Hemostasis"

8:50 pm - 9:00 pm Discussion

9:00 pm - 9:20 pm **Linda Rikkert** (Academic Medical Center, The Netherlands)

"Strategies to Identify Rare Extracellular Vesicles in Human Body Fluids"

9:20 pm - 9:30 pm Discussion

Thursday

7:30 am - 8:30 am Breakfast

8:30 am - 9:00 am Business Meeting

Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair

9:00 am - 12:30 pm **Extracellular Vesicles in Neurobiology**

Discussion Leader: **Neha Raukar** (Brown University, USA)

9:00 am - 9:20 am **Fred Hochberg** (University of California, San Diego, USA)

"Cerebrospinal Fluid Analyses of exRNA"

9:20 am - 9:30 am Discussion

9:30 am - 9:50 am **Richard Kraig** (University of Chicago, USA)

"Exosomes and Environmental Enrichment-Based Neurotherapeutics"

- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:30 am Coffee Break
- 10:30 am - 10:50 am **Michael Chopp** (Henry Ford Hospital, USA)
"Treatment of Neural Injury with Exosomes Promotes Neurovascular Remodeling and Functional Recovery"
- 10:50 am - 11:00 am Discussion
- 11:00 am - 11:10 am **Stacey Gifford** (IBM Research, USA)
"A Novel Method for Exosome Separation: nanoDLD Chip Technology"
- 11:10 am - 11:15 am Discussion
- 11:15 am - 11:35 am **Claudia Verderio** (Institute of Neuroscience, National Research Council (CNR), Italy)
"Multimodal Microglial Modulation of Neuronal Functions Through Extracellular Vesicles"
- 11:35 am - 11:45 am Discussion
- 11:45 am - 12:05 pm **Randolph Corteling** (ReNeuron Limited, United Kingdom)
"The Development of Neural Stem Cell Exosomes for Clinical Applications"
- 12:05 pm - 12:15 pm Discussion
- 12:15 pm - 12:25 pm **Shannon Pendergrast** (Ymir Genomics LLC, USA)
"Enabling Urine Extra-Cellular Biomarker Discovery"
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 5:30 pm Poster Session
- 5:30 pm - 7:30 pm **Extracellular Vesicles in Cancer**
Discussion Leader: **Clotilde Thery** (Institut Curie, France)
- 5:30 pm - 5:50 pm **Peter Kurre** (Oregon Health and Science University, USA)
"The Role of Extracellular Vesicles in the Hematopoietic Microenvironment"
- 5:50 pm - 6:00 pm Discussion
- 6:00 pm - 6:20 pm **Johan Skog** (Exosome Diagnostics, USA)
"Exosome Biomarkers, Current State and Future Directions"
- 6:20 pm - 6:30 pm Discussion
- 6:30 pm - 6:50 pm **Raghu Kalluri** (University of Texas MD Anderson Cancer Center, USA)
"The Biology and Function of Cancer Exosomes"

6:50 pm - 7:00 pm Discussion

7:00 pm - 7:20 pm **Sicheng Wen** (Rhode Island Hospital / Brown University, USA)
"Mesenchymal Stromal Cell Derived Extracellular Vesicles Rescue Radiation Damage to Murine Marrow Hematopoietic Cells"

7:20 pm - 7:30 pm Discussion

8:00 pm Dinner

Friday

7:30 am - 8:30 am Breakfast

9:00 am Departure

Extracellular Vesicles GRC - Attendee List

Name	Organization	Participation	Status
Abels, Erik R	Massachusetts General Hospital	Poster Presenter	Registered
Alexander, Margaret	University of Utah	Speaker	Registered
Alluri, Ravi Kumar	Cleveland Clinic Foundation	Poster Presenter	Registered
Alweiss, Alan	JSR Micro (MBLI)	Attendee	Registered
Askenase, Philip	Yale University	Discussion Leader	Registered
Balaj, Leonora	Massachusetts General Hospital	Speaker	Registered
Banerjee, Sudip	University of Arkansas for Medical Sciences	Poster Presenter	Registered
Beit-Yannai, Elie	Ben-Gurion University of the Negev	Speaker	Registered
Boucek, Robert J	Seattle Children's Hospital Research Institute	Attendee	Registered
Boudreau, Luc H	Universite de Moncton	Attendee	Registered
Boutin, Adam	Codiak BioSciences	Attendee	Registered
Brenner, Benjamin	Technion - Israel Institute of Technology	Discussion Leader	Registered
Brizzi, Maria F	University of Turin	Speaker	Registered
Bruno, Stefania	University of Turin	Speaker	Registered
Buck, Amy	University of Edinburgh	Speaker	Registered
Bussolati, Benedetta	Dept. of Molecular Biotechnology and Health Science	Poster Presenter	Registered
Buzas, Edit	Semmelweis University	Speaker	Registered
Cain, Margo P	The University of Texas MD Anderson Cancer Center	Poster Presenter	Registered
Caldwell, Charles C	University of Cincinnati	Poster Presenter	Registered
Camussi, Giovanni	University of Torino	Vice Chair	Registered
Carniol, Karen E	Cell Press	Attendee	Registered
Chatterjee, Devasis	Rhode Island Hospital	Poster Presenter	Registered
Chen, Jieli	Henry Ford Hospital	Attendee	Registered
Cheng, Yan	Rhode Island Hospital	Poster Presenter	Registered
Choi, Kyungsun	KAIST	Attendee	Registered
Choi, Chulhee Chulhee	KAIST	Poster Presenter	Registered
Chopp, Michael	Henry Ford Hospital	Speaker	Registered
Collier, Mary	University of Leicester	Speaker	Registered
Coronado, Ramon	LSMRI	Attendee	Registered
Corteling, Randolph L	ReNeuron Limited	Speaker	Registered
Daaboul, George	nanoView Diagnostics	Speaker	Registered
Davies, Brian A	Mayo Clinic	Poster Presenter	Registered
De La Canal, Laura	National University of Mar del Plata	Speaker	Registered
de la Torre Escudero, E	Queen's University, Belfast	Attendee	Registered
Deeke, Shelley A	Ottawa Institute of Systems Biology, University of Ottawa	Poster Presenter	Registered
Deep, Gagan	Wake Forest Baptist Medical Center	Poster Presenter	Registered
DePaoli, Silvia	FDA	Poster Presenter	Registered
Dumont, Jacques E	University of Brussels	Attendee	Registered

Ferguson, Scott W	University at Buffalo	Attendee	Registered
Flashner, Yehuda	IIBR	Attendee	Registered
Friis, Kristina P	Massachusetts General Hospital/Harvard Medical School	Poster Presenter	Registered
Gasecka, Aleksandra	Medical University of Warsaw	Poster Presenter	Registered
George, Marybeth	JSR Micro	Poster Presenter	Registered
Ghelfi, Elisa	Harvard School of Public Health	Poster Presenter	Registered
Giebel, Bernd	University of Duisburg-Essen	Speaker	Registered
Gifford, Stacey M	IBM Research	Speaker	Registered
Gimm, J Aura	US Army Research Office	Attendee	Registered
Goldberg, Laura R	Rhode Island Hospital	Poster Presenter	Registered
Gong, Jingyi	Max Planck Institute of Neurobiology	Poster Presenter	Registered
Gould, Stephen J	Johns Hopkins University School of Medicine	Discussion Leader	Registered
Greening, David	La Trobe Institute for Molecular Science	Poster Presenter	Registered
Haltom, Amanda	MD Anderson Cancer Center	Poster Presenter	Registered
Haraszti, Reka A	University of Massachusetts Medical School	Speaker	Registered
Hartman, John	Cornell University	Poster Presenter	Registered
Hochberg, Fred	University of California, San Diego	Speaker	Registered
Hoffman, Andrew M	Tufts University	Speaker	Registered
Johnson, Jennifer L	Capricor Therapeutics	Poster Presenter	Registered
Jones, Jennifer	National Institutes of Health	Poster Presenter	Registered
Kalluri, Raghu	University of Texas MD Anderson Cancer Center	Speaker	Registered
Kamerkar, Sushrut	University of Texas MD Anderson Cancer Center	Poster Presenter	Registered
Kenigsberg, Shlomit	Create Fertility Centre	Poster Presenter	Registered
Kosaka, Nobuyoshi	National Cancer Center Research Institute	Speaker	Registered
Kraig, Richard	University of Chicago	Speaker	Registered
Kuehn, Meta J	Duke University Medical Center	Discussion Leader	Registered
Kurre, Peter	Oregon Health and Science University	Speaker	Registered
Lacroix, Romaric	Aix-Marseille University	Speaker	Registered
Languino, Lucia R	Thomas Jefferson University	Speaker	Registered
Larocca, David	ReCyte Therapeutics	Speaker	Registered
Lebleu, Valerie S	MD Anderson Cancer Center	Attendee	Registered
Lee, Hyung Keun	Yonsei University College of Medicine	Attendee	Registered
Li, Yong	Janssen R&D	Attendee	Registered
Liang, Olin	Brown University	Speaker	Registered
Liu, Daniel	Verily Life Sciences	Attendee	Registered
Lo, Fang-Yi	Chang Gung Memorial Hospital, Linkou	Attendee	Registered
Lucero, Rocco D	Baylor College of Medicine	Poster Presenter	Registered
Mackman, Nigel	University of North Carolina at Chapel Hill	Speaker	Registered
Malhi, Harmeet	Mayo Clinic	Speaker	Registered
McAndrews, Kathleen	University of Texas MD Anderson Cancer Center	Poster Presenter	Registered
McCrae, Keith R	Cleveland Clinic	Poster Presenter	Registered

McNamara, Ryan P	University of North Carolina at Chapel Hill	Poster Presenter	Registered
Michaelis, Katherine A	Oregon Health & Science University	Poster Presenter	Registered
Milosavljevic, A	Baylor College of Medicine	Speaker	Registered
Nagrath, Deepak	Rice University	Speaker	Registered
Nguyen, My-Anh	University of Ottawa Heart Institute	Poster Presenter	Registered
Nolte-'t Hoen, E	Utrecht University	Speaker	Registered
O'Donoghue, Eloise	Institute of Microbiology and Infection	Poster Presenter	Registered
Palmlund, David	Particle Metrix Inc	Attendee	Registered
Pantazopoulos, Harry	Harvard Medical School, Mclean Hospital	Poster Presenter	Registered
Pendergrast, Shannon	Ymir Genomics LLC	Speaker	Registered
Pezacki, John P	University of Ottawa	Speaker	Registered
Pochampally, R	University of Mississippi Medical Center	Poster Presenter	Registered
Quesenberry, Peter	The Warren Alpert Medical School, Brown University	Chair	Registered
Rak, Janusz	McGill University	Attendee	Registered
Ramirez, Andrea H	National Human Genome Research Institute	Poster Presenter	Registered
Raposo, Graca	Institut Curie	Speaker	Registered
Rathinam, Vijay	UConn Health School of Medicine	Poster Presenter	Registered
Raukar, Neha	Brown University	Discussion Leader	Registered
Rikkert, Linda	Academic Medical Center	Speaker	Registered
Robbins, Paul D	The Scripps Research Institute	Speaker	Registered
Robinson, Mark W	Queen's University, Belfast	Poster Presenter	Registered
Rodriguez-Borlado, L	Capricor Therapeutics, Inc	Attendee	Registered
Roth, Matthew	Baylor College of Medicine	Attendee	Registered
Salo, Tuuls A	Univ of Helsinki	Attendee	Registered
Sanchez-Esteban, Juan	Brown University	Speaker	Registered
Scheepbouwer, Chantal	Massachusetts General Hospital	Attendee	Registered
Schekman, Randy W	University of California, Berkeley	Speaker	Registered
Shao, Huilin	Institute of Molecular and Cell Biology	Poster Presenter	Registered
Shelke, Ganesh V	Krefting Research Centre,	Poster Presenter	Registered
Shimaoka, Motomu	Mie University Medical School	Attendee	Registered
Simpson, Richard	La Trobe University	Discussion Leader	Registered
Skog, Johan	Exosome Diagnostics	Speaker	Registered
Soula, Anaïs	Interdisciplinary Institut for neuroscience, UMR 5297	Poster Presenter	Registered
Srinivas, Pothur R	National Institutes of Health	Attendee	Registered
Stahl, Philip D	Washington University School of Medicine	Attendee	Registered
Stoorvogel, Willem	Faculty of Veterinary Medicine, Utrecht University	Discussion Leader	Registered
Takashima, Hideaki	JBIC	Attendee	Registered
Temoche-Diaz, M	UC Berkeley	Poster Presenter	Registered
Tetta, Ciro	Unicyte AG	Speaker	Registered
Thery, Clotilde	Institut Curie	Discussion Leader	Registered
Tiwari, Swasti	Sanjay Gandhi Postgraduate Institute of Medical Sciences	Poster Presenter	Registered

van der Pol, Edwin	Academic Medical Center, University of Amsterdam	Speaker	Registered
Vargas Cesar, Gabriele	Universidade Federal do Rio de Janeiro	Poster Presenter	Registered
Vella, Laura J	The Florey Institute for Neuroscience and Mental Health	Poster Presenter	Registered
Verderio, Claudia	Institute of Neuroscience, National Research Council (CNR)	Speaker	Registered
Wang, Lei	Henry Ford Hospital	Attendee	Registered
Wang, Jing-Hung	Stanford University	Poster Presenter	Registered
Wen, Sicheng	Rhode Island Hospital / Brown University	Speaker	Registered
Whitaker, Keith W	US Army Research Laboratory	Poster Presenter	Registered
Witwer, Kenneth W	Johns Hopkins University School of Medicine	Speaker	Registered
Wolf-Dennen, Kerri K	MD Anderson Cancer Center	Poster Presenter	Registered
Wong, David	University of California, Los Angeles	Discussion Leader	Registered
Woo, Hyun-Kyung	UNIST	Poster Presenter	Registered
Wyneken, Ursula	Universidad de los Andes	Poster Presenter	Registered
Yeon, Juhun	Department of Integrative Biosciences	Poster Presenter	Registered
Yokoi, Akira	National Cancer Center Research Institute	Speaker	Registered
Young, Matthew R	Cancer Biomarker Research Group, DCP, NCI	Poster Presenter	Registered
Zaborowski, Mikolaj	Massachusetts General Hospital	Attendee	Registered
Zempleni, Janos	University of Nebraska at Lincoln	Poster Presenter	Registered
Zhang, Huang-Ge	University of Louisville	Speaker	Registered
Zhang, Zhenggang	Henry Ford Hospital	Attendee	Registered
Zhong, Wenwan	University of California, Riverside	Poster Presenter	Registered
Zimmermann, Pascale	Katholieke Universiteit Leuven	Speaker	Registered
Zuba-Surma, Ewa K	Biophysics and Biotechnology	Poster Presenter	Registered