

NIH Extracellular RNA Communication Consortium 9th Investigators' Meeting November 6-7, 2017



Hilton Washington DC/Rockville Hotel & Executive Meeting Center Plaza Ballroom[†], 1750 Rockville Pike, Rockville, MD 20852

Monday, November 6th, 2017

Welcome	and Registration				
8:15 a.m.	Registration opens				
9:15 a.m.	Opening Remarks				
Session I:	Extracellular Vesicle Biogenesis and Function	Session Chairs: Bonnet & Xandro	Drs. Nihal Altan- a Breakefield		
9:30 a.m.	HIV-1 Latency: The Relationship between Virus, Exosomes, and TAR-gag RNA.	g, a Novel HIV-1	Robert Barclay		
9:45 a.m. 10:00 a.m.	Inter-Organismal Vesicular Transmission of Enteric Viruses CD63, MHC class 1, and CD47 identify subsets of extracellular vesicles of populations of non-coding and microRNA	containing distinct	Marianita Santiana Sukhbir Kaur		
10:15 a.m. 10:30 a.m.	The RNA binding protein HuR regulates extracellular vesicle secretion in o Oncogene Regulated Production and Release of Vesicles and Extracellu		Daniel A. Dixon Seda Kilinc Avsarglu		
10:45 a.m.	Discussion: Cargo Sorting				
11:30 a.m.	Lunch* and DMRR Workshop				
1:00pm	Special Presentation: Methodologies to Standardize Flow Cytometric Measurement of Erica Stein Extracellular Vesicles and Quantitatively Measure Extracellular RNA				
Session II	Session II: exRNA and Extracellular Vesicle Standards and Resources Session Chairs: Drs. Kendall Jensen & Hameeda Sultana				
1:30 p.m. 1:45 p.m. 2:00 p.m.	Definition of serum ribonucleoprotein composition and its regulation a Comparison of different technical platforms for circulating miRNA profile-coverage landscape of extracellular coding and non-coding RNA religious states as the sealing series as the sealing ser	filing	Klaas Max Vasily Aushev Anna M. Krichevsky		
2:15 p.m.	glioma stem cells The exRNA Atlas resource provides insights into exRNA biology through analysis of exRNA profiles	ncross-study	Aleksandar Milosavljevic		
2:30 p.m.	exceRpt: the extracellular RNA-Seq processing pipeline of the ERCC		Joel Rozowsky		
2:45 p.m.	Break				
Session II	Session III: Research, Diagnosis and Biomarkers Session Chairs: Tomer Cooks		Ors. Leonora Balaj &		
3:00 p.m.	Extracellular vesicle microRNA signatures reveal tissue heteroge glioblastoma subtypes	eneity in defined	Agnieszka Bronisz		
3:15 p.m. 3:30 p.m.	MicroRNA Biomarkers for Alzheimer's Disease in Human Cerebrospinal Fluid The bioavailability and distribution of exosomes and their RNA cargos from bovine and porcine milk in mice		Julie Saugstad Janos Zempleni		
3:45 p.m. 3:00 p.m.	Extracellular RNA profiles with human age Nicole Nore		Nicole Noren Hooten Leonora Balaj		
4:15 p.m.	Break				
4:30 p.m 6:30 p.m.	Poster Session and Networking (Foyer)				

^{*}Attendees will be responsible for their own meals and/or refreshments. The government neither provides nor reimburses the cost of food and beverage.

[†] Unless otherwise noted, all talks will be held in the Plaza Ballroom.



5:15 p.m.

NIH Extracellular RNA Communication Consortium 9th Investigators' Meeting November 6-7, 2017



Hilton Washington DC/Rockville Hotel & Executive Meeting Center Plaza Ballroom[†], 1750 Rockville Pike, Rockville, MD 20852

Tuesday, November 7th, 2017

Special Sea	ssion: Navigating Regulatory Submissions		
9:30 a.m.	Regulatory Considerations for In Vitro Diagnostics		Aaron Schetter
10:00 a.m.	Regulatory Considerations for Biologics		MalcolmMoos
Session IV	: Therapeutic Uses of exRNA and Extracellular Vesicles	Session Cha	irs: Drs. Ana Robles &
		Tom Schmitt	
10:30 a.m.	Anti-HER2 scFv-directed extracellular vesicle-mediated mRNA-based g	ene delivery	A.C. Matin
	arrests growth of HER2-positive human breast tumor xenografts by prod		
10:45 a.m.	Modified Extracellular Vesicles Improves Host Immune Response in Colorectal		SubbayaSubramanian
	Cancer		
11:00 a.m.	Optimizing exosome production and intracerebroventricular delivery to brain		Reka A. Haras zti
11:15 a.m.	Tissue Regeneration by Exosome Engineering		James D. Bryers
11:30 a.m.	N6-Methyladenosine (m6A) RNA Modifications Mediate the Beneficial Function of		Susmita Sahoo
	Human CD34+ Stem Cell-Derived Exosomes to Repair the Failing Heart	t	
11.45	I L. w I N		
11:45 a.m.	Lunch* and Networking		
Socian V.	Cutting-Edge Technologies	Sassian Cha	irs: Drs. Dolores Di Vizio
Session v.	Cutting-raige reclinologies		
1.15	O	& Jennifer J	
1:15 p.m.	Quantification and characterization of low-abundance exosomes and RN with Interferometric Reflectance Imaging	A biomarkers	Derin Sevenler
1:30 p.m.			Saumya Das
	my ocardial infarction in a transgenic murine model		
1:45 p.m.	Microfluidic Isolation and Molecular Profiling of Tumor-specific Extracellular Vesicles Berent Aldikacti		Berent Aldikacti
2:00 p.m.	Sequencing exos omal mRNA and lncRNA across human biofluids coupled with		Robert Kitchen
•	targeted enrichment of exosomal sub-populations reveals novel biomarke		
2:15 p.m.	Evaluating functional delivery of cargo in extracellular vesicles		Meadhbh Brennan
-	, ,		
2:30 p.m.	Break		
Q		a . a	
Session VI	: Discussions Not to Miss – Future Directions of Research		irs: Drs. Louise Laurent
			ar Milosavljevic
2:45 p.m.	Technological Challenges & Opportunities		fer Jones & Mark Ansel
3:10 p.m.	Critical Questions in EV Biology		a Weaver & Mike McManus
3:35 p.m.	The Future of Clinical Applications of EVs/exRNAs	Tush	ar Patel & Saumya Das
4:00 p.m.	Open Discussion		
5:00 p.m.	Clasing Damanks		
5.00 p.m.	Closing Remarks		

Meeting Adjourns

^{*}Attendees will be responsible for their own meals and/or refreshments. The government neither provides nor reimburses the cost of food and beverage.

[†] Unless otherwise noted, all talks will be held in the Plaza Ballroom.