

AGENDA

Thursday Nove	ember 14, 2024					
4:00 pm - 8:00 pm	<u> </u>	ion Desk – pick up conference badge & materials	- RiverView Ballroom Foyer			
6:00 pm - 8:00 pm		Welcome Reception - RiverView Ballroom Foy	er			
Friday Novemb	ber 15, 2024					
7:30 am - 8:30 am		Exhibits & Coffee/Pastries				
8:30 am - 9:00 am RiverView A	Jonathan Jahr, MD, PhD	Welcome & Introductions	Allan Doctor, MD			
	Professor Emeritus of Anesthesiology and Perioperative Medicine at UCLA	Hemostas	ioengineering, Director, Center of Blood Oxygen Transport and sis, University of Maryland; CSO, KaloCyte			
9:00 am - 10:00 am RiverView A	Overen Corriers	Track Introductions Plasma	Platelets			
Kivel view A	Oxygen Carriers Andre Palmer, PhD	Shibani Pati, MD, PhD	Anirban Sen Gupta, PhD			
	Professor of Chemical & Biomolecular Engineering, Ohio	Director Center for Research in Transfusion Medicine	Professor of Engineering, Biomedical Engineering, Case Weste			
	Eminent Scholar, The Ohio State University	and Cell Therapies Vice Chair and Professor UCSF	Reserve University, CTO, Haima Therapeutics			
		Opening Session				
10:00 am - 10:30 am		itutes Have Led to Success in Artificial Ce It Now Time for Blood Substitutes' Succ				
RiverView A		on Chair ISBS Honorary President, Thomas MS Chan				
	Emeritus Professor of Physiology, Medicine and Bioengineering McGill University Director, Artificial Cells and Organs Research Centre					
	Director, Artificial Cells and Organs Research Centre Professor Chengmin Yang					
10:30 am - 10:50 am	Former Director of the Ins Scientific Advi	stitute of Blood Transfusion, Peking Union Medical College, Chine sor of the International Society for Artificial Cell Blood Substitut	ese Academy of Medical Sciences es and Biotechnology			
	Honorary President of Blood Si	ubstitute Branch of Chinese Biomedical Engineering Society (imn	nediate past co-President ISBS 2019)			
10:50 am - 11:10 am	Professor of	Hiromi Sakai, PhD Chemistry, Nara Medical University, Japan (immediate past co-P	resident ISBS 2019)			
11:10 am - 11:25 am		Break & Exhibits Presidential Lecture				
11:25 am - 12:25 pm	BioSynthetic Blood	Presidential Lecture d Components: Use Case and Approaches	to Clinical Trial Design			
RiverView A		Philip Spinella, MD				
12:25 2:00	Professor of Surgery and Critical	Care Medicine, Co-Director, Trauma and Transfusion Medicine Re	esearch Center, University of Pittsburgh			
12:25 pm - 2:00 pm	Oxygen Carriers Basic Science	Lunch & Exhibits Plasma Basic Science	Platelets Basic Science			
	RiverView A	RiverView 4/5	RiverView B			
2:00 pm - 2:20 pm	Hb and HBOC Biochemistry	Biomarker Responses to Trauma and Blood	Thrombopoiesis - Megakaryocyte and Platelet			
	Loif Rulow PhD	Product Resuscitation	Biology			
	Leif Bulow, PhD Professor, Pure and Applied Biochemistry	Jillian Richter, PhD Associate Professor of Surgery at UAB	Joseph Italiano, PhD Associate Professor			
2:20 pm - 2:40 pm	Lund University, Sweden	Defining and Modulating the Endotheliopathy of	Harvard Medical School			
	Encapsulated HBOCs (Benefits and Risks)	Trauma with Plasma Product Transfusion	Platelets in Hemostasis			
	Hiromi Sakai, PhD	Shibani Pati, MD, PhD Director Center for Research in Transfusion Medicine	Wolfgang Bergmeier, PhD			
	Professor of Chemistry Nara Medical University	and Cell Therapies	Professor of Biochemistry, University of North Carolina			
2:40 pm - 3:00 pm	PolyHb with Novel Recombinant Human	Vice Chair and Professor UCSF The Therapeutic Potential of Plasma	Platelets-Fibrin-RBC Interactions in Hemostat			
	Catalase-SOD-Carbonic Anhydrase	Extracellular Vesicles	Clots			
	Jing Ning, MD, PhD Former Senior Biologist/Clinical Evaluator, Health Products	Philip Norris, MD VP Research	John Weisel, PhD Professor of Cell and Developmental Biology			
	and Drug Branch, Health Canada	Vitalant Research Institute/UCSF	University of Pennsylvania			
3:00 pm - 3:20 pm	Freeze Dried RBC's	What Goes Around Comes Around: Blood and Modern Resuscitative Medicine	Cell Damage Contribution to Platelet Activation From Inflammatory Bleeding to			
	Brett Janis, PhD	Joseph Rappold, MD (CAPT Ret.) US Navy	Thrombo-Inflammation Julie Rayes, PhD			
	Co-Founder and Chief Executive Officer, DesiCorp Inc	Professor of Surgery Maine Medical Center, Tufts University	Associate Professor of Cardiovascular Sciences University of Birmingham			
3:20 pm - 3:30 pm	Q&A Moderator: Andre Palmer	Q&A Moderator: Shibani Pati	Q&A Moderator: Cedric Ghevaert			
3:30 pm - 3:45 pm		Break & Exhibits				
	Oxygen Carriers Technical	Plasma Technical Formulation Approaches	Platelets Technical Formulation			
	Formulation Approaches RiverView A	Approacnes RiverView 4/5	Approaches RiverView B			
3:45 pm - 4:05 pm	Metal-Organic Framework-Based	Challenges in Producing a Lyophilized	Strengthening Platelet Supply Resilience: Innovati			
	Oxygen Carriers	Plasma Product	Technology Solutions Shaping the Future			
	Leticia Hosta-Rigau, PhD	Adam Gerber, MD, PhD	Pampee Young, MD, PhD			
	Associate Professor, Health, Cell and Drug Technologies, Technical University of Denmark	Scientific and Medical Director, Critical Care, Octapharma	Chief Medical Officer, Biomedical Services American Red Cross, Nashville			
4:05 pm - 4:25 pm	HBOC Design Using Protein Engineering	Regulatory Challenges for Dried Blood Components	Apheresis Platelet Product Funcational Variabil			
	Leif Bulow, PhD	Toby Silverman, MD, MPH	Susan Shea, PhD			
	·	Subject Matter Expert, Tunnell Government Services, contractor to BARDA (Former Deputy Associate Director for	Assistant Professor of Surgery and Bioengineering			
	Professor, Pure and Applied Biochemistry Lund University, Sweden	contractor to BARDA (Former Deputy Associate Director for Medical Affairs,	Assistant Professor of Surgery and Bioengineering University of Pittsburgh			
4:25 pm - 4:45 pm	Professor, Pure and Applied Biochemistry Lund University, Sweden	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product	University of Pittsburgh			
4:25 pm - 4:45 pm	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development	University of Pittsburgh Platelets from Stem Cells			
4:25 pm - 4:45 pm	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development Alison Nair, MD	University of Pittsburgh Platelets from Stem Cells Cedric Ghevaert, MD PhD FRCP FRCPath			
	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD Lead Biologist, Sciperio, Inc.	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development	University of Pittsburgh Platelets from Stem Cells			
4:25 pm - 4:45 pm 4:45 pm - 5:05 pm	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development Alison Nair, MD Associate Professor, Pediatric Critical Care Medicine	University of Pittsburgh Platelets from Stem Cells Cedric Ghevaert, MD PhD FRCP FRCPath Professor in Transfusion Medicine University of Cambridge			
	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD Lead Biologist, Sciperio, Inc. Bis-Tetramers from β-Subunit-Specific Azido Acyl Methyl Phosphate Cross-Linking of Hb Followed by Azide-Alkyne Coupling Deliver O2	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development Alison Nair, MD Associate Professor, Pediatric Critical Care Medicine University of California, San Francisco	University of Pittsburgh Platelets from Stem Cells Cedric Ghevaert, MD PhD FRCP FRCPath Professor in Transfusion Medicine University of Cambridge Characterization of Freeze-Dried Platelet Hemostai			
	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD Lead Biologist, Sciperio, Inc. Bis-Tetramers from β-Subunit-Specific Azido Acyl Methyl Phosphate Cross-Linking of Hb Followed by Azide-Alkyne Coupling Deliver O2 and Avoid NO Ronald Kluger, PhD Professor of Organic and Biological Chemistry	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development Alison Nair, MD Associate Professor, Pediatric Critical Care Medicine University of California, San Francisco Technical Formulations of Plasma Anthony Pusateri, PhD Chief Scientist	Platelets from Stem Cells Cedric Ghevaert, MD PhD FRCP FRCPath Professor in Transfusion Medicine University of Cambridge Characterization of Freeze-Dried Platelet Hemostal (FPH) and Cryoperserved Platelets (CPP) Mike Fitzpatrick, PhD			
	Professor, Pure and Applied Biochemistry Lund University, Sweden On-Demand RBCs Janice Moser, PhD Lead Biologist, Sciperio, Inc. Bis-Tetramers from β-Subunit-Specific Azido Acyl Methyl Phosphate Cross-Linking of Hb Followed by Azide-Alkyne Coupling Deliver O2 and Avoid NO Ronald Kluger, PhD	contractor to BARDA (Former Deputy Associate Director for Medical Affairs, FDA Office of Blood Research and Review) Pathogen Reduction for Novel Blood Product Development Alison Nair, MD Associate Professor, Pediatric Critical Care Medicine University of California, San Francisco Technical Formulations of Plasma Anthony Pusateri, PhD	University of Pittsburgh Platelets from Stem Cells Cedric Ghevaert, MD PhD FRCP FRCPath Professor in Transfusion Medicine University of Cambridge Characterization of Freeze-Dried Platelet Hemostat (FPH) and Cryoperserved Platelets (CPP)			

	ber 15, 2024 (cont'd)					
6:00 pm - 7:30 pm			ner on Own	d Common outs		
RiverView A 7:30 pm - 7:55 pm			n Bio-Synthetic Bloo			
7.50 pm 7.55 pm	PEGylated Bovine Hemoglobin: Manufacturing and Characterization Shaunak Pandya, PhD Director, CMC R&D, Kashiv BioSciences LLC					
7:55 pm - 8:20 pm	Recombinant Hbs with Enhanced Oxidative Stability Brandon Reeder, PhD					
8:20 pm - 8:45 pm		Fractionate	d Polymerized Hbs			
	Andre Palmer, PhD Professor of Chemical & Biomolecular Engineering, Ohio Eminent Scholar, The Ohio State University					
8:45 pm - 9:10 pm	The Regenerative Properties of Plasma-Derived Biotherapies					
	Shibani Pati, MD, PhD Director Center for Research in Transfusion Med and Cell Therapies					
9:10 pm - 9:35 pm	Vice Chair and Professor UCSF Freeze Dried Plasma - State of the Science					
			ıy Pusateri, PhD			
			and Naval Medical Research Unit			
Saturday Nove	ember 16, 2024					
7:30 am - 8:00 am		Exhibits 8	& Coffee/Pastries			
RiverView A			ry Lectures	Platta.		
8:00 am - 8:40 am	M		ynthetic Resuscitation n Doctor, MD	riuids		
	Professor of Pediatrics and Bioengine			sis, University of Maryland; CSO, KaloCyte		
8:40 am - 9:20 am	Overview of		and Some Molecular C	Control Solutions		
	C		ry and Vascular Biology, OBRR/CB	ER/FDA		
9:20 am - 10:00 am	Personalized Ass		atic Deficits to Guide F	Precision Transfusion		
	Professor a		ell Cohen, MD c and Translational Research, Univ	ersity of Colorado		
			r: Jonathan Jahr	,		
10:00 am - 10:15 am			k & Exhibits			
	Oral Abstracts Artifical Oxygen (RiverView A	Carriers/ HBOC	Oral Abstracts Pla	asma, Hemostasis, Transfusion Medicine RiverView 4/5		
			10:15am - 10:25am - #3: Insight into the Biophysical Properties of Polymerized Human Serum Albumin and its Ability to Serve as a Potential Plasma Expander - Amna Abdalbagi			
	10:30am - 10:40am - #5: VS-101, a Next-Generation PEGylated HBOC, Improves Survival Versus Standard of Care in Rat Models of Hemorrhagic		10:30am - 10:40am - #79: Detection of Hemostatic Impairment Caused by Platelet Number and Function Defects Using Platelet-specific Dielectric Coagulometry - Dante			
	Shock - Bjorn K. Song, PhD/William Nugent, PhD 10:45am - 10:55am - #78: Perfluorocarbon-based artificial oxygen carriers for hypothermic machine perfusion - Jacquelline Hausherr		Disharoon 10:45am - 10:55am - #65: Interpretation of platelet signaling defects in thromboelastography - Robert H. Lee			
10:15 am - 12:15 pm	11:00am - 11:10am - #86: Clinical Evaluation of PP-007 Treatments of Severe Anemia - Ronald Jubin, PhD		11:00am - 11:10am - #10: Evaluation of Field Fluid Support and Follow-on 72-Hour Survival after 60% Blood Loss in Rats - William Light, PhD/Bjorn K. Song, PhD			
	11:15am - 11:35am - #61: Polyoxazoline-Conjugated Hemoglobin as an Alternative to PEGylated Hemoglobin Teruyuki Komatsu, PhD		11:15am - 11:25am - #14: Impact of Controlled and Uncontrolled Hemorrhage (Two- Hit Model) and Resuscitation of OxyBridge and/or Plasma on Coagulopathy and Hemostasis in Rats - Bjorn K. Song, PhD/William Nugent, PhD			
	11:40am - 11:50am - #54: A synthetic strategy for hemoglobin-PEG architectures using supramolecular polymerization - Takashi Matsuhira		11:30am - 11:40am - #13: Impact of Controlled and Uncontrolled Hemorrhage (Two- Hit Model) and Resuscitation on Coagulopathy and Hemostasis in Rats - Bjorn K. Song, PhD/William Nugent, PhD			
	11:55am - 12:05am - #11: Dodecafluoropentane Improves Return of Spontaneous Circulation and Functional Survival in a Swine Model of Cardiac Arrest - Travis Murphy, MD, E-AEC		11:45am - 11:55am - #1: Production of the Apohemoglobin-Haptoglobin Complex for the Treatment of Hemolytic Conditions - Quintin O'Boyle			
	Q&A Moderator: Stephen F	Q&A Moderator: Stephen Rogers Q&A Moderator		erator: Cedric Ghevaert, Alison Nair		
12:15 pm - 1:45 pm	Oxygen Carriers Translational Science	Plasma Tran	ch & Exhibits slational Science	Platelets Translational Science		
1:45 pm - 2:05 pm	RiverView A Microvascular Response to HBOCs	RiverView 4/5 Prothrombin Complex Concentrate as a		RiverView B SynthoPlate-Platelet Inspired Design and		
	·	Therapeutic in Trauma		Evaluation		
	Pedro Cabrales, PhD	Martin A. Schreiber, MD FACS FCCM COL, MC, USAR		Christa Pawlowski, PhD		
	Professor of Bioengineering University of California, San Diego	Adjunct Professor of Surgery Uniformed Services University of the Health Sciences		Co-Founder, Chief Operating Officer Haima Therapeutics		
2:05 pm - 2:25 pm	Safety Biomarkers for Exploratory Toxicology Studies	Regenerative Properties of Plasma in Burns		Platelet Mimicry for Biomechanical Function		
	Felice D'Agnillo, PhD Principal Investigator, Office of Blood Research & Review	Jeff Shupp, MD		Ashley Brown, PhD		
	(OBRR), Center for Biologics Evaluation & Research (CBER)	Professor of Surgery, Plastic Surgery, Biochemistry, Cellular & Molecular Biology, Georgetown University		Associate Professor of Biomedical Engineering, NC State/UNC Chapel Hill; CoFounder Selsym Biotech		
2:25 pm - 2:45 pm	Animal Models for Preclinical HBOC	Plasma Derived Pathogen Reduced Cryoprecipitate in Trauma Rosemary Kozar, MD, PhD		Genetic Modification of Transfusable Donor		
	Down Selection Paul Buehler, PharmD, PhD			Platelets using mRNA Therapy Mitch Dyer, MD		
	Professor of Pathology & Pediatrics, Principle Investigator, Center for Blood Oxygen Transport and Hemostasis			Principal Investigator Versiti / Medical College of Wisconsin		
2:45 pm - 3:05 pm	University of Maryland Innovative Pre-Clinical Models to Prepare			Regenerating the Injured Brain with Platelet-		
	Products for FDA Review	Whole Blood vs Components Martin A. Schreiber, MD FACS FCCM COL, MC, USAR Adjunct Professor of Surgery		Dervied Biologics		
	Bjorn Song, PhD			Shibani Pati, MD, PhD Director Center for Research in Transfusion Med and Cell		
3:05 3:15	CEO, Song Biotechnologies	Uniformed Services University of the Health Sciences Uniformed Services University of the Health Sciences Vice Chair and Professor UCSF		Vice Chair and Professor UCSF		
3:05 pm - 3:15 pm 3:15 pm - 3:30 pm	Q&A Moderator: Paul Buehler	Q&A Moderator: Paul Buehler Q&A Moderator: Jeff Shupp Q&A Moderator: Julie Rayes Break & Exhibits				

Saturday November 16, 2024 (cont'd)					
,	Oxygen Carriers Potency		Potency	Platelets Potency	
3:30 pm - 3:50 pm	RiverView A In Vitro Models of HBOC Potency	Regulatory Aspects	View 4/5 s of Developing Novel Products: Thoughts on	RiverView B Detecting Platelet Heterogeneity	
	Stephen Rogers, PhD	Potency	/ Measures man, MD, MPH	John Hwa, MD, PhD	
	Assistant Professor of Pediatrics, Center for Blood Oxygen	Subject Matter Expert, To	unnell Government Services,	Professor of Cardiovascular Medicine	
	Transport and Hemostasis, University of Maryland		er Deputy Associate Director for of Blood Research and Review)	Co-Director Yale Cooperative Center of Excellence in Hematology, CT	
3:50 pm - 4:10 pm	HBOC Impact Upon Vasoactive Effectors, Rheology and Blood Flow			Trauma-Induced Platelet Dysfunction	
	Dany Kim-Shapiro, PhD Professor and Chairman, Department of Physics, Wake	Measuring Dynamic	Changes in Fibrinolysis	Paul Vulliamy, MD	
	Forrest University		oduct Resuscitation	Senior Clinical Lecturer Trauma Sciences, Blizard Institute, Queen Mary University of London	
4:10 pm - 4:30 pm	Blinded, Randomized, Controlled Trials of HEMOPURE		Moore, MD ant Surgeon	Platelets in TBI: Fact, Fiction, and Function	
	Jerrold Levy, MD Professor of Anesthesiology and Critical Care		t Institution at Porter Hospital,	Michael Goodman, MD	
	Professor of Surgery (Cardiothoracic) Duke University School of Medicine Vice Chair, Scientific Subcommittees of the ISTH			Professor of Surgery, University of Cincinnati	
4:30 pm - 4:50 pm	Expanded Access when Blood Not an Option:	Plasma versus F	actor Concentrates	Cold Stored Platelets: Clinical Efficacy and Safety	
	Use of Hemopure and Sanguinate Jonathan Waters, MD	Beth S	Shaz, MD	Phil Spinella, MD	
	Professor of Anesthesiology and Perioperative Medicine and Bioengineering, Director of Blood Management Program,		or of Marcus Center for Cellular	Professor of Surgery and Critical Care Medicine, Co-Director, Trauma and Transfusion Medicine Research Center,	
4:35 pm - 5:00 pm	University of Pittsburgh Medical Center Q&A Moderator: Stephen Rogers		r: Rosemary Kozar	University of Pittsburgh O&A Moderator : Susan Shea	
5:00 pm - 6:15 pm			ons & Exhibits Rece		
6:15 pm - 7:30 pm			ner on Own		
RiverView A				ic Blood Components	
7:30 pm - 7:55 pm	Periludrocarbor	Katja Be	ygen Carriers for Ex V	ivo Organ Periusion	
7:55 pm - 8:20 pm	Non		eered Protein Oxygen	Carriers	
	Emin Maltepe, MD Professor Department of Pediatrics and Neonatology UCSF				
8:20 pm - 8:45 pm	Biochemically	Encoded Wetware	for Context Responsive		
		eering, Director, Center of Bloo	od Oxygen Transport and Hemosta	sis, University of Maryland; CSO, KaloCyte	
8:45 pm - 9:05 pm	Polymerized Albumin to Stabilize		ssure and Functional (e Palmer, PhD	Capillary Density During Resuscitation	
9:05 pm - 9:30 pm			ering, Ohio Eminent Scholar, The Mimetics for Targeted		
3.55 pm		Anirban	Sen Gupta, PhD		
	Professor of Engine		Case Western Reserve University, tor: Leif Bulow	CTO, Haima Therapeutics	
Sunday Noven	•				
7:45 am - 8:45 am			apharma Industry S ates are Transforming	Spotlight Bleeding Management	
RiverView A			ntinential Breakfast ary Lecture		
9:00 am - 9:40 am	Microciro	ulatory Physiology	of Bio-Synthetic Blood	l Components	
			Cabrales, PhD g, University of California, San Die	ego	
9:40 am - 10:00 am	Microcirculation Forum				
	Panelists: Ashley Brown, Felice D'Agnillo, Michael Goodman, Brandon Reeder, Bjorn Song Moderator: Allan Doctor				
10:00 am - 10:15 am	Oxygen Carriers Cardiac Effect		k & Exhibits	asma, Hemostasis, Transfusion Medicine	
10:15 am - 10:40 pm	RiverView A		·	RiverView 4/5	
23.13 am - 10.40 pm	There Are Different Types of HBOCs No Adverse Cardiac Effec			: Simulating The Impact of Transfusion Products on : Outcome - Andrew Gosselin	
	Thomas MS Chang, MD, Ph			: Apohemoglobin conjugated to haptoglobin prevents	
	Emeritus Professor of Physiology, Medicine an Director, Artificial Cells and Organs Research Cent		Cabrales, PhD	ous extracorporeal membrane oxygenation - Pedro	
10:40 am - 11:05 pm	Hemoglobin Based Oxygen Carriers, Ox Myocardial Infarction			: A synthetic short-chain polyphosphate (polyP)	
	Tim Estep, PhD		hemodilute, hypothermic, o	article (SNP, polyP-SNP), corrects coagulopathy under r acidotic conditions as assessed by in vitro coagulation	
11:05 am - 11:30 pm	President, Chart Biotech Consulting LLC; Former VP Hemi	oglobin Therapeutics, Baxter	assays - Damien Kudela		
21.05 am - 11:30 pm	Cardiac Safety and Troponin Findings in a MP4OX for Treatment of Severe Hem		11:00am - 11:10am - #84: Functional and Pharmacokinetic Evaluation of an Intramuscular TXA Autoinjector in Swine - Kelly Mottet		
	Peter Keipert, PhD		11:15am - 11:25am - #2: Nationwide/Worldwide Impact of Covid 19 on the I Supply (Donation & Contamination) What UMC EI Paso did to combat the crisi: Bradford Ray, LP, PBMT		
	President, KEIPERT Corp. Consult Formerly VP Clinical Development, S				
11:30 am - 11:55 pm	Cardiac Responses to Polymerized Hemog	=		: Hemostatic Performance Analysis of Biosynthetic Whole o Human Massive Transfusion Model - Sonali Rohiwal	
	Felice D'Agnillo, PhD Principal Investigator, Office of Blood Research & Review		-	: Assessment of Microvascular, Tissue, and Organ	
44.55	Evaluation and Research (CBEF			Shock with Phosphorescence Quenching Method (PQM)	
11:55 am - 12:30 pm	Panel Discussion			·	
	Abdu Ayalash, Paul Buehler, Felice D'Agni Jonathan Jahr, Andre Palm		11:55am - 12:15pm - Chall Transfusion Medicine - Chr	enges and Opportunities in Neonatal Platelet istopher Thom, MD, PhD	
	Moderator: Thomas Chang, Ti	m Estep		derator: Anirban Sen Gupta	
12:30 pm - 1:30 pm		Lun	ch On Own		

Sunday Noven	nber 17, 2024 (cont'd)					
RiverView A	Bio-Synthetic Blood Components in Active Human Trials					
1:30 pm - 1:45 pm	F	Framing: Lessons Learned and Future Directions Jonathan Jahr, MD, PhD				
	Professor Emeritus of Anesthesiology and Perioperative Medicine, David Geffen School of Medicine at UCLA					
1:45 pm - 2:10 pm	HbV Hiromi Sakai, PhD					
		Professor of Chemistry, Nara Medical University, Japan				
2:10 pm - 2:35 pm	Dry Plasma Jose Cancelas, MD, PhD Member of the Faculty of Medicine, Harvard Medical School; Director Cell Manufacturing, Dana Farber Cancer Institute					
2:35 pm - 3:00 pm	,	Sanguinate Clinical Trials				
	Ron Jubin, PhD Vice President R&D, Prolong Pharmaceuticals					
3:00 pm - 3:25 pm	Plasma Derived Products (Lyophilized: PCCs, Cryo, Fibrinogen)					
	Joseph Rappold, MD					
3:25 pm - 3:45 pm	Professor of Surgery, Maine Medical Center / Tufts University Thrombosomes					
		Mike Fitzpatrick, PhD Chief Scientific Officer, Cellphire Therapeutics, Inc				
		Moderator: Phil Spinella				
3:45 pm - 4:00 pm		Break				
	Oxygen Carriers Ex Vivo Organ Support	Hemostatic Therapeutics Clinical Efficacy	Oral Abstracts Artificial Oxygen Carriers/HBOC			
4:00 pm - 4:30 pm	RiverView A	RiverView 4/5	RiverView B 4:00pm-4:10pm - #85: Evaluation of the Storage			
	Hemarina For Organ Preservation	Cold Stored Platelet Post-Injury: Results of Two Recent Randomized Clinical Trials	Stability of ErythroMer as a Lyophilized Powder and as a Reconstituted Liquid - Esma Alp, PhD			
	Franck Zal, PhD	Jason Sperry , MD, MPH	4:15pm - 4:25pm - #67: Nanozyme-Mediated Antioxidant Protection of Hemoglobin-Based Oxygen Carriers -			
	CEO, Hemarina	Professor of Surgery and Critical Care, University of Pittsburgh	Despoina Douka			
	CLO, Hemanid		4:30pm - 4:40pm - #69: Nanoscale tools for the			
4:30 pm - 5:00 pm	High Molecular Weight PolyHb For Lung Perfusion	Plasma and Plasma Derived Products in Liver Transplantation	formation of complex giant unilamellar vesicles – Towards artificial red blood cells Willemien Gosselé			
	Bryan Whitson, MD, PhD	Seth Karp, MD	4:45pm - 4:55pm - #91: Polymerized human hemoglobin improves oxygenation compared to blood in venovenous			
	Professor of Surgery, Ohio State University	Professor and Chair, Department of Surgery, Vanderbilt University	extracorporeal membrane oxygenation Pedro Cabrales, PhD			
5:00 pm - 5:30 pm	PFCs For Kidney and Heart Perfusion	Treatment of Coagulopathy with Canine Freeze Dried Plasma (cFDP)	5:00pm - 5:10pm - #4: Polymerized Human Hemoglobin- Based Oxygen Carrier Preserves Lung Allograft Function During Normothermic Ex Vivo Lung Perfusion Alisyn Greenfield			
	Katja Bettina Ferenz, PhD	Robert Buntz	5:15pm - 5:25pm - #68: Development of an In Vitro			
	Professor of Physiology, University Duisburg-Essen	Research & Veterinary Medicine, Mantel Technologies	Model for Evaluating Hemoglobin-Based Oxygen Carriers as Hypoxia Alleviating Agents - Eva Jakljevič			
5:30 pm - 6:00 pm			5:30pm - 5:40pm - #57: LENOX: Perfluorodecalin-based			
	HBOCs: Ex Vivo, In Vivo, or Both?	Prehospital Plasma and Whole Blood for Trauma	artificial oxygen carriers with mixed shell composition and improved stability Fabian Nocke			
	William Light, PhD	Jason Sperry , MD, MPH	5:45pm - 5:55pm - #63: OXSEALIFE - Lara Oller, MD			
	Chief Scientific Officer, VirTech Bio	Professor of Surgery and Critical Care, University of Pittsburgh	6:00pm - 6:10pm - #83: Evaluation of safety metrics for a Whole Blood Analog in an in vitro Human Massive			
6:00 pm - 6:30 pm	Panel Discussion	Panel Discussion	Transfusion (HMT) model: Dynamic viscosity analysis and endothelial function using microfluidic models of human microvasculature - Oshin Sharma			
			6:15pm - 6:25pm - #8: Hemoglobin vesicles improve neurological outcome after cardiac arrest in rats - Keisuke Tsuruta			
	Katha Ferenz, Bryan Whitson, Franck Zal	Robert Buntz, Seth Karp, Jason Sperry, Phil Spinella	6:25pm - 6:35pm - #75 Design and Development for a Deployable, Shelf-Stable, Whole Blood Substitute Packaging System for In-Field Resuscitation of Hemorrhagic Shock - Nicholas McMahon			
	Moderator: Franck Zal, William Light	Moderator: Martin Schreiber	Moderator: Andre Palmer, Dany Kim Shapiro			
6:30 pm - 7:00 pm	·	Reception	ICDC 2026 Days - '-lt			
7:00 pm - 9:30 pm	Banquet Dinner	& Award Ceremony - Introduction of RiverView 1-3	15B5 2U26 President			
Monday Nove	nber 18, 2024					
		Select Oral Presentations				
7,20 5 0.22	7:30am - 7:50am - #9: A new treatment protocol for critical limb ischemia, reports on phase 1 and II trials Bing Lou Wong, Heron Han	8:10am - 8:30am - Novel Preservation Solution Based on Polyhemoglobin with Three Synthetic Enzymes Thomas MS Chang, MD, PhD	8:50am - 9:10am - #49: Advancements in the Development of Polymerized Human Placental Hemoglobin (HBOC-CHP01): A Comprehensive			
7:30 am- 9:30 am RiverView A	7:50am - 8:10am - #90: Recapitulating endogenous		Evaluation Wentao Zhou 9:10am - 9:30am - #60: Pharmacologic Modification of			
	estrogen Julia Coleman	Resuscitation with Three Different Dosages of Polymerized Human Hemoglobin Carlos Munoz	Hemoglobin: Enhancing Safety and Expanding Therapeutic Applications Beyond Blood Replacement Jan Simoni, PhD, DVM			
9:30 am - 9:45 am	Moderator: Allan	Doctor, Jonathan Jahr, Andre Palmer, Shibani Pa Break	ии, Аннграп Sen Gupta			
9:45 am - 10:45 am RiverView A		nsorship of Biosynthetic Blood Produ				
	ASPR/BARDA: John Esker, PhD NIH/NHLBI: Andrei Kindzelski, MD, PhD MTEC: Lauren Palestrini, PhD USAMMDA: Kendra L Lawrence, PhD, BCE, PMP DARPA: JP Chretein, MD, PhD DoD/CCC: CAPT Travis Polk, MD					
10:45 am - 11:45 am RiverView A	Government Stakeholder Forum NIH, NSF, DOD/DARPA, BARDA, USAMMDA, MTEC					
11:45 am - 12:15 pm		Moderator: Ken Bertram Break				
12:15 pm - 1:00 pm		Regulatory Update (FDA/CBER)				
RiverView A	Load Dhysisian Division	Victor Baum, MD	nd Review (ORRR) CRER FDA			
1:00 pm - 1:45 pm						
RiverView A	Panelists: Abdu Alayash, Victor Baum, Paul Buehler, Felice D'Agnillo, Vijay Nair, Franck Zal Moderator: Jonathan Jahr					
1:45 pm - 2:00 pm	Clos	ing Remarks: Allan Doctor and Jonath	nan Jahr			
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