Ninth Symposium on Biologic Scaffolds for Regenerative Medicine *** Final Program ***

Day 1: April 28, 2016 (Thursday)			
Day I. Api	11 20, 2010 (111d13day)		
6:00 – 8:00 pm	Registration	Silverado East Foyer	
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	Reception	Fairway Deck	
Day 2: Apr	il 29, 2016 (Friday)		
7:00 – 8:00 am	Breakfast	Fairway Deck	
Welcome			
8:00 – 8:05 am	Stephen F. Badylak, DVM, PhD, MD University of Pittsburgh	Silverado East	
Keynote Address			
8:05 – 8:40 am	Robert M. Nerem, PhD Georgia Institute of Technology	Regenerative Medicine: Harnessing the Intrinsic Power of the Human Body	
	ologic Scaffold for Cardiac Reconstrunair: Karen L. Christman, PhD, FAHA (
8:40 – 9:15 am	Frederick J. Schoen, MD, PhD Brigham and Women's Hospital and Harvard Medical School	Role of Matrix and Cell Dynamics in Heart Valve Health and Disease	
9:15 – 9:45 am	Robert Matheny, MD, FACS CorMatrix Cardiovascular, Inc.	Development of a SIS Regenerative Heart Valve; From Benchtop to Clinical Trial	
9:45 – 10:05 am	Dan T. Simionescu, PhD Clemson University	Development of Chemically Stabilized Acellular Cardiac Valve Scaffolds and in Vivo Testing in a Sheep Right Ventricular Outflow Tract Model	
_10:05 – 10:25 am	Lauren D. Black III, PhD Tufts University	Acellular Cardiac Extracellular Matrix-Silk Patches for Cardiac Repair Post-Myocardial Infarction	
10:25 – 10:45 am	Break	Fairway Deck	
	ologic Scaffolds for Plastic and Recornair: George Hussey, PhD (<i>University</i> of		
10:45 – 11:05 am	Robert G. Martindale, MD, PhD Oregon Health & Science University	Metabolic End Products of Absorbable Bioscaffolds in Soft Tissue Repair; Are They Helping or Hurting Us?	
_11:05 – 11:25 am	Olof Holmquist, MD Queen Silvias Childrens Hospital	Use of Biodesign® after Chest Wall Resection in Children: Our Experience in Two Cases	
11:25 – 11:45 am	D. Adam Young, PhD ACell, Inc.	The Use of Urinary Bladder Matrix for Body Wall Repair in Multiple Preclinical Models	
11:45 – 12:05 pm	Nicholas C. Pashos, BS Tulane University School of Medicine	Characterization of a Biologically Derived Graft for Nipple-Areolar Complex Reconstruction	
12:05 – 12:25 pm	Kristen Jones, MD University of Minnesota	Neuroprotective Potential of Biologic Scaffolds in Acute Stroke and Human Translational Feasibility: A Neurosurgeon's Perspective	

12:25 – 1:45 pn		Fairway Deck	
•	Mechanisms by Which ECM Scaffolds Influence Cell Behavior and the		
Session III:	Associated Clinical Implications Chair: Arnold I. Caplan, PhD (Case Western Reserve University)		
	Chair. Amoid I. Capian, Filb (Case Weste	Mechanisms of Action of a Myocardial	
	Karen L. Christman, PhD, FAHA	Matrix Hydrogel for Treating Myocardial	
1:45 – 2:05 pm	University of California, San Diego	Infarction	
	Inkyung Kang, PhD		
	Benaroya Research Institute at	A Role for Versican in Engineered Tissues:	
2:05 – 2:25 pm	Virginia Mason	Modulating Elasticity and Inflammation	
	David M. Adelman, MD, PhD, FACS		
	The University of Texas MD Anderson	Defining the Device to Tissue Transition in	
2:25 – 2:45 pm	Cancer Center	Fetal Bovine Acellular Dermal Matrix	
		A Novel Bioactive Component of Biologic	
	George S. Hussey, PhD	Scaffolds: Implications for Tissue Repair	
2:45 – 3:05 pm	University of Pittsburgh	and Regeneration	
3:05 – 3:25 pm	Break	Fairway Deck	
•	Some Basic Concepts of ECM and ECM		
Session IV:	Chair: Laura E Niklason, MD, PhD (Yale		
	Robert Mecham, PhD		
	Washington University School of	Extracellular Matrix Organization and	
3:25 – 3:45 pm	Medicine	Function	
	Cyrus Ghajar, PhD	Where the Wild Things Are: Perivascular	
	Fred Hutchinson Cancer Research	Regulation of Disseminated Tumor Cell	
3:45 – 4:05 pm	Center	Dormancy and Chemoresistance.	
	Matthew T. Wolf, PhD	Urinary Bladder Extracellular Matrix Inhibits	
4:05 – 4:25 pm	Johns Hopkins University	Tumor Formation	
е р			
4.05 4.45	Arnold I. Caplan, PhD	MSCs: How They Work and Why (Some	
4:25 – 4:45 pm	Case Western Reserve University	Surprises)	
	Nikhil Gheewala, PhD	Developing a Standard Approach to Evaluating the Decellularization of	
4:45 – 5:05 pm	ACell, Inc.	Biomaterial ECMs	
4.40 – 0.00 piii	Accii, inc.	Diomaterial Edwis	
- 0-	A 11		
5:05 pm	Adjourn		
6:00 – 7:30 pm	Poster Session & Wine Reception	Fairway Deck	
Day 3: A	pril 30, 2016 (Saturday)		
7:00 – 8:00 am	Breakfast	Fairway Deck	
Welcome			
	Ctanhan F. Badylak, DVM, DhD, MD		
8:00 – 8:05 am	Stephen F. Badylak, DVM, PhD, MD University of Pittsburgh	Silverado East	
0.00 – 0.05 am	Oniversity of Fillsburgh	Silverado East	
Keynote Addre	ess		
	Laura E Niklason, MD, PhD	The Agony and the Ecstasy of Getting into	
8:05 – 8:40 am	Yale University	the Clinic	
Session V:	Gell:Matrix Interactions and Clinical Relev	ance	
00331011 V. C	Chair: Robert Mecham, PhD (Washington U	Iniversity School of Medicine)	
	Nadia Rosenthal, PhD, FMedSci,		
	FAAHMS		
	The Jackson Laboratory, Bar Harbor		
8:40 – 9:05 am	Imperial College London, UK	Immune Control of Cardiac Repair	

Session VIII:	Response	, FRCPath (Johannes Gutenberg University,
3:20 – 3:45 pm	Break ECM Structure-Function Relationships a	Fairway Deck
3:00 – 3:20 pm	Byoung-Hyun Min, MD, PhD Ajou University Hospital	Extracellular Matrix Contributes Enhancement of Efficacy of Microfracture for Cartilage Repair- Clinical Results Followed up 1 Year Postoperatively
2:40 – 3:00 pm	Center	Restoration in Combat Casualty Injuries Biomembrane from Porcine Cartilage
2:20 – 2:40 pm	Nanotechnology, Singapore Ian L. Valerio, MD, MS, MBA Ohio State University Wexner Medical	Construction with Stem Cells Application of Bioartificial Dermal Regeneration Templates for Skin
2.00 – 2.20 pm	Karthikeyan Narayanan, PhD Institute of Bioengineering and	Decellularized Organs: Whole Organ
2:00 – 2:20 pm	Jeff Ross, PhD Miromatrix Medical Inc.	Engineering a Clinically Relevant Transplantable Liver with Sustained In-Vivo Perfusion
1:40 – 2:00 pm	Hilton Kaplan, MBBCh, FCSSA, PhD Rutgers University	Decellularized Allogeneic Neurovascular Bundles for Reinnervation and Revascularization in Soft and Hard Tissue Reconstruction, the Rehabilitation of Massive Scarring, and Engineered Tissues
1:20 – 1:40 pm	Jenna Dziki, BS <i>University of Pittsburgh</i>	Biologic Scaffold Treatment for Volumetric Muscle Loss: Results of a Thirteen Patient Cohort Study
Session VII:	Biologic Scaffolds for CNS, Whole Organ Chair: Bryan N. Brown, PhD (<i>University of</i>	n, Skin, and Cartilage Reconstruction Pittsburgh)
12:10 – 1:20 pm	Lunch	Fairway Deck
11:50 – 12:10 pr	Wendy F. Liu, PhD m <i>University of California, Irvine</i>	Regulation of Macrophage Function by Engineered Biopolymer Scaffolds
11:30 – 11:50 ar	Samuel T. LoPresti, BS m <i>University of Pittsburgh</i>	Effect of Source Animal Age upon Macrophage Response to ECM Scaffolds
11:10 – 11:30 ar	Hui Li, PhD m <i>Life Cell Corporation-Acelity</i>	Macrophage Phenotype Profile Regulated by Tissue Matrices for Screening of Biomaterials
10:50 – 11:10 ar	Kaitlyn Sadtler, BS	Th2 T Cells are Required for Extracellular Matrix-Mediated Functional Muscle Regeneration
10:30 – 10:50 ar	Charles D. Mills, PhD m BioMedical Consultants	Macrophages. The Chicken and the Egg in Immune Responses to Injury or Biologic Scaffolds
Session VI:	Role of the Macrophage in Bioscaffold In Chair: Charles D. Mills, PhD (<i>BioMedical</i> Charles D. Mills)	
9:55 – 10:30 am	Break	Fairway Deck
9:30 – 9:55 am	Johannes Gutenberg University, Germany & University of Gothenburg, Sweden	Developing in Vitro & in Vivo Models to Study Tissue Reactions to Biologic Scaffolds
9:05 – 9:30 am	C. James Kirkpatrick MD, PhD, DSc, FRCPath	·
9:05 – 9:30 am	Jeffrey M. Davidson, PhD Vanderbilt University Medical Center	Multiscale Properties of ECM Scaffolds

		Collagen Matrix: Structure & Function -
	Kenneth Burhop, PhD	Translating to New Opportunities in
3:45 – 4:05 pm	Integra LifeSciences	Regenerative Medicine
	Inna Kornienko, MS	
	Moscow Institute of Physics and	Low-Immunogenic Matrix Suitable for
4:05 - 4:25 pm	Technology	Transplantation
		A Macrophage Centric Approach to the
	Bryan N. Brown, PhD	Evaluation of ECM Scaffolds for Tissue
4:25 – 4:50 pm	University of Pittsburgh	Reconstruction
	Stephen F. Badylak, DVM, PhD, MD	
4:50 – 5:00 pm	University of Pittsburgh	Closing Remarks & Adjourn

PODIUM PRE	SENTATIONS	
Podium /	Name	Tialo
Poster	Name D. Adam Young, PhD	Title
	D. Adam Toding, Find	
	D. Adam Young, PhD	
	Sr. Product Development Engineer	
	ACell, Inc.	
	6640 Eli Whitney Drive	
	Baltimore, MD 21046	The Use of Urinary Bladder Matrix
Podium	(443) 283-2784	for Body Wall Repair in Multiple
Accepted	Adamyoung@acell.com	Preclinical Models
	Olof Holmquist, MD	
	MD Olof Holmquist	
	Dept of Pediatrics	
	Rondvagen 10	
	Gothenburg	
	Sweden	Use of Biodesign® after chest wall
Podium	004793002161	resection in children: - Our
Accepted	olof.holmquist@gmail.com	experience in two cases
	Bryan N. Brown, PhD	·
	Drugo Brown DhD	
	Bryan Brown, PhD. Assistant Professor	
	Department of Bioengineering	
	Department of Disterrices, Gynecology, and Reproductive	
	Sciences	
	McGowan Institute for Regenerative Medicine	
	University of Pittsburgh	
	Pittsburgh, Pennsylvania	A Macrophage Centric Approach to
Podium	(412) 624-5273	the Evaluation of ECM Scaffolds for
Accepted	Brownb@upmc.edu	Tissue Reconstruction
	Byoung-Hyun Min, MD, PhD	
	Byoung-Hyun Min MD, PhD	
	Professor, Department of Orthopedic Surgery	Biomembrane from porcine
	Professor, Department of Molecular Science of Technology	cartilage extracellular matrix
	Ajou University Hospital, 164, Worldcup-ro, Youngtong-gu,	contributes enhancement of
	Suwon, 443-380 Republic of Korea	efficacy of Microfracture for
Podium	CP: 82-10-2277-1893	cartilage repair- Clinical results
Accepted	dr.bhmin@gmail.com	followed up 1 year postoperatively
	Dan T. Simionescu, PhD	
	Dan T. Simionescu, PhD	
	Harriet and Jerry Dempsey Associate Professor of	
	Bioengineering	
	Director, Biocompatibility and Tissue Regeneration	
	Laboratories	
	Department of Bioengineering	
	304 Rhodes Research Center	Development of chemically
	Clemson University, Clemson, SC, 29634	stabilized acellular cardiac valve
	Office phone: 864-656-5559	scaffolds and in vivo testing in a
Podium	Cell phone: 864-650-7404	sheep right ventricular outflow tract
Accepted	Email: dsimion@clemson.edu	model
Podium	David M. Adelman, MD, PhD, FACS	
Accepted	K. L. O. O	Defining the Device to Tiesus
	Kevin G. Cornwell, Ph.D.	Defining the Device to Lissue
	Kevin G. Cornwell, Ph.D. Senior Scientist and Head of AWR R&D	Defining the Device to Tissue Transition in Fetal Bovine Acellular

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	Kevin.Cornwell@integralife.com	
	David M. Adelman, M.D., Ph.D., F.A.C.S. (presenting author)	
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	The University of Texas MD Anderson Cancer Center	
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	DMAdelman@mdanderson.org	
	Hilton Kaplan, MBBCh, FCSSA, PhD	
	Dr. Hilton Konlon, MPRCh ECSSA DhD	
	Dr. Hilton Kaplan, MBBCh FCSSA PhD Associate Director, NJ Center for Biomaterials Research	Decellularized Allogeneic
	·	Neurovascular Bundles for
	Associate Professor, Rutgers University Program Manager, NIH T32 Postdoctoral Fellowships	Reinnervation and
	145 Bevier Rd LSB-101, Piscataway, NJ 08854	Revascularization in
	(848) 445-9646 W, (805) 242-2050 M	Soft and Hard Tissue
	(0.10) THO DOTO W, (000) 272 2000 W	Reconstruction, the Rehabilitation
Podium	hilton.kaplan@rutgers.edu <mailto:hilton.kaplan@rutgers.edu>,</mailto:hilton.kaplan@rutgers.edu>	of Massive Scarring, and
Accepted	www.njbiomaterials.org http://www.njbiomaterials.org	Engineered Tissues
•	Hui Li, PhD	
	Hui Li, PH.D.	
	Staff Scientist	
	Life Cell Corporation-Acelity	
	95 Corporate Drive	Managhananhanatunang
Podium	Bridgewater, NJ 08807 Phone: 908-809-7423	Macrophage phenotype profile
Accepted	Email: huli@acelity.com	regulated by tissue matrices for Screening of Biomaterials
Accepted	Ian L. Valerio, MD, MS, MBA	Screening of Biomaterials
	Tan E. Valono, MD, MO, MD/	
	Ian L. Valerio, MD, MS, MBA, FACS	
	CDR, MC, USNR	
	Division Chief of Burn, Wound, & Trauma in Plastic Surgery	
	Associate Professor	
	December 1 Block and December 1	
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	The Ohio State University Wexner Medical Center	
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	(F)614-293-9024 Email: ian.valerio@osumc.edu	
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD	
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh	Application of bioartificial dermal
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD	regeneration templates for skin
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA	regeneration templates for skin restoration in combat casualty
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA cell is 412-728-3377	regeneration templates for skin
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA	regeneration templates for skin restoration in combat casualty
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA cell is 412-728-3377 Inkyung Kang, PhD	regeneration templates for skin restoration in combat casualty
	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA cell is 412-728-3377	regeneration templates for skin restoration in combat casualty injuries
Podium Accepted Podium	(F)614-293-9024 Email: ian.valerio@osumc.edu Associate Professor, The Uniformed Services University of the Health Sciences, Bethesda, MD Adjunct Associate Professor, The University of Pittsburgh Medical Center, Pittsburgh, PA cell is 412-728-3377 Inkyung Kang, PhD Inkyung Kang, PhD	regeneration templates for skin restoration in combat casualty

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	p 206-287-5667 f 206-342-6567	
	ikang@benaroyaresearch.org	
	Inna Kornienko, MS	
	Kornienko Inna, MS	
	research assistant in the Laboratory of Cellular and Molecular	
	Technologies	
	Moscow Institute of Physics and Technology (State University)	
	9 Institutskiy per., Dolgoprudny, Moscow Region,	
	141700, Russian Federation	
Podium	innatrusova@gmail.com	Low-immunogenic matrix suitable
Accepted	+7 916 540 8151 Jeff Ross, PhD	for transplantation
	Jeff Ross, Ph.D.	
	VP of Product Development Miromatrix Medical Inc.	
	10399 West 70th Street	Engineering a Clinically Relevant
Podium	Eden Prairie, MN 55344	Transplantable Liver with Sustained
Accepted	952-942-6000	In-Vivo Perfusion
'	Kaitlyn Sadtler, BS	
	Kaitlyn Sadtler, B.S.	
	Graduate Student	
	Johns Hopkins University	
	400 N Broadway	
	5001-O Smith Building	
5 "	Baltimore, MD 21231	Th2 T cells are required for
Podium	Phone: (301) 788-1479	extracellular matrix-mediated
Accepted	Email: ksadtle3@jhmi.edu Karen L. Christman, PhD, FAHA	functional muscle regeneration
	Raien L. Chiistinan, FhD, FAHA	
	Karen L. Christman, Ph.D.	
	Associate Professor	
	Department of Bioengineering Sanford Consortium for Regenerative Medicine	
	University of California, San Diego	
	Offiversity of Camornia, Sair Diego	
	2880 Torrey Pines Scenic Dr.	
D !!	La Jolla, CA 92037	Mechanisms of action of a
Podium	(858) 822-7863	myocardial matrix hydrogel for
Accepted	christman@eng.ucsd.edu Karthikeyan Narayanan, PhD	treating myocardial infarction
	Nathikeyan Narayanan, 1 115	
	Karthikeyan Narayanan, Ph.D.	
	Senior Research Scientist,	
	Institute of Bioengineering and Nanotechnology,	
	31, Biopolis Way,	
Podium	Singapore 138669. Tel: +65-6824-7155	Decellularized organs: Whole organ
Accepted	Email: Karthikeyan@ibn.a-star.edu.sg	construction with stem cells
Accepted	Kenneth Burhop, PhD	construction with stem cens
	Kenneth Burhop, Ph.D.	
	Corporate Vice President / Chief Scientific Officer	
	609-750-2870 office • 609-357-6306 cell • 609-936-2385 fax	
	Kenneth.burhop@integralife.com	
	Integra • 311 Enterprise Drive, Plainsboro, NJ 08536	Collagen Matrix: Structure &
	Assistant: Irene Conti – 609-936-6907; eMAIL:	Function - Translating to New
Podium	irene.conti@integralife.com	Opportunities in Regenerative
Accepted	www.integralife.com	Medicine

Tufts University 4 Colby Street Medford, MA 02155 Ph: 617-627-4660 Fx: 617-627-3231 Matrix-Silk Patches for Ca bedium Offered lauren.black@tufts.edu Matthew T. Wolf	
Medford, MA 02155 Ph: 617-627-4660 Fx: 617-627-3231 Matrix-Silk Patches for Candium Offered Sequence S	
Ph: 617-627-4660 Acellular Cardiac Extracel Fx: 617-627-3231 Matrix-Silk Patches for Ca odium Offered lauren.black@tufts.edu Repair post-Myocardial In	
Fx: 617-627-3231 Matrix-Silk Patches for Candium Offered lauren.black@tufts.edu Repair post-Myocardial In	llular
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Matthew T. Wolf	
Matthew Wolf, PhD	
Postdoctoral fellow	
Translational Tissue Engineering Center	
Johns Hopkins University 5031 Smith Building	
400 N. Broadway	
Baltimore, MD 21231	
odium 412-370-6796 Urinary Bladder Extracellu	ılar Matrix
ccepted mwolf23@jhmi.edu Inhibits Tumor Formation Nicholas C. Pashos, BS	
Monolad C. Fadiloc, 20	
Nicholas Pashos, BS	
PhD Candidate, BioInnovation; NSF IGERT Fellow;	
Tulane University School of Medicine;	
Center for Stem Cell Research and Regenerative Medicine;	
npashos@tulane.edu	
603.714.8491 333 South Liberty Street, Characterization of a Biok	ogically
odium JBJ 655, Orange Graft for Nipple-A	
ccepted New Orleans, LA 70112 Complex Reconstruction	
odium Nikhil Gheewala, PhD ccepted	
Nikhil Gheewala, PhD	
Principal Scientist at ACell, Inc.	
6640 Eli Whitney Dr	
Columbia, MD 21046 Developing a standard ap (443) 283-2750 evaluating the decellulariz	•
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nikhilgheewala@acell.com biomaterial ECMs	
nikhilgheewala@acell.com biomaterial ECMs Robert Matheny, MD, FACS	
Robert Matheny, MD, FACS	
Robert Matheny, MD, FACS Robert Matheny, MD FACS	
Robert Matheny, MD, FACS	
Robert Matheny, MD, FACS Robert Matheny, MD FACS Chief Scientific Officer CorMatrix Cardiovascular, Inc. 1100 Old Ellis Rd	
Robert Matheny, MD, FACS Robert Matheny, MD FACS Chief Scientific Officer CorMatrix Cardiovascular, Inc. 1100 Old Ellis Rd Roswell, Ga 30076 Development of a SIS	· From
Robert Matheny, MD, FACS Robert Matheny, MD FACS Chief Scientific Officer CorMatrix Cardiovascular, Inc. 1100 Old Ellis Rd Roswell, Ga 30076 Development of a SIS odium (404) 276-7777 Regenerative Heart Valve	; From
Robert Matheny, MD, FACS Robert Matheny, MD FACS Chief Scientific Officer CorMatrix Cardiovascular, Inc. 1100 Old Ellis Rd Roswell, Ga 30076 Development of a SIS	; From
Robert Matheny, MD, FACS Robert Matheny, MD FACS Chief Scientific Officer CorMatrix Cardiovascular, Inc. 1100 Old Ellis Rd Roswell, Ga 30076 Development of a SIS odium (404) 276-7777 Regenerative Heart Valve scepted Rgmatheny@aol.com Benchtop to Clinical Trial Samuel T. LoPresti, BS	; From
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	Wendy F. Liu, PhD	
	Wendy Liu, Ph.D.	
	Assistant Professor	
	Edwards Lifesciences Center for Advanced Cardiovascular	
	Technology	
	Department of Biomedical Engineering	
	University of California, Irvine	
	2412 Engineering Hall	
	Irvine, CA 92697-2730	
	Tel: (949) 824-1682	
Podium	Fax: (949) 824-9968	Regulation of macrophage function
Accepted	wendy.liu@uci.edu	by engineered biopolymer scaffolds
	George S. Hussey, PhD	
	George S. Hussey, Ph.D.	
	Postdoctoral Associate	
	McGowan Institute for Regenerative Medicine	
	University of Pittsburgh	
	School of Medicine, Department of Surgery	
	450 Technology Drive, Suite 300	
	Pittsburgh, PA 15219-3130	A novel bioactive component of
Podium	Tel: (412) 624-5272	biologic scaffolds: Implications for
Accepted	husseygs@upmc.edu	tissue repair and regeneration
	Jenna Dziki, BS	
	Jenna Dziki, BS	
	Graduate Student	
	McGowan Institute for Regenerative Medicine	
	Department of Bioengineering	
	University of Pittsburgh, Pittsburgh, PA	
	450 Technology Drive Suite 300	
	Bridgeside Point II (BSP2)	
	Pittsburgh, PA 15219	Biologic Scaffold Treatment for
Podium	Tel: 412-721-3191	Volumetric Muscle Loss: Results of
Accepted	dzikijl@upmc.edu	a Thirteen Patient Cohort Study
7.000 p.10 d.		a minor and a contract
POSTERS		
	Agneta Simionescu, PhD	
	Agneta Simionescu, PhD	
	Assistant professor	
	Clemson University, Department of Bioengineering	
	501 Rhodes Research Center,	
	Clemson, SC, 29634	Mitral valve tissue engineering – a
Poster	864-656-3729	model for investigating valve
Accepted	agneta@clemson.edu	degeneration
	Anders Sandin, MD	
	MD Anders Sandin	
	Specialist Pediatric Surgery	
	Dept of Pediatrics	Epitholial regressith agressets
	Queen Silvias Childrens Hospital	Epithelial regrowth prevents
	Rondvagen 11	reconstructive remodeling of the muscle wall in the porcine
Poster	Gothenburg Sweden	esophagus after replacement with
Accepted	0046736220567	biomatrix
	Rachelle H Crosbie-Watson, PhD	Effects of Dystrophin Loss on the
Poster		Biophysical Properties of Skeletal
Accepted	Dr. Rachelle Crosbie-Watson, PhD	Muscle ECM

	Professor	
	Department of Integrative Biology & Physiology	
	University of California, Los Angeles	
	610 Charles E Young Drive East, TLSB 1121	
	Los Angeles, CA 90095	
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	310.794.2103	
Poster	Derek Woloszyn BS	
Accepted	•	
	Derek J. Woloszyn, BS	
	Surgical Research Assistant	
	New Jersey Center for Biomaterials	Techniques for Harvesting and
	Rutgers, The State University of New Jersey	Decellularizing Neurovascularized
	145 Bevier Road LSB-202	Muscle to Replace Autologous
	Piscataway. NJ 08854	Free Flaps: A Comparison Between
	(848) 445-9618 W, (908) 907-4364 M	Immersion and Perfusion
	derek.woloszyn@rutgers.edu	Decellularization
Dootor		Decendiarization
Poster	Gilson Khang, PhD	
Accepted	D f	
	Prof.	
	Chonbuk National University	
	567 Baekje-daero, deokjin-gu, jeonju-si, jellabuk-do 54896	
	Republic of Korea	
	82-10-2410-7579	Natural/synthetic hybrid scaffolds
	gskhang@jbnu.ac.kr	for tissue-engineered organ
	Rebecca M. Horn, BS	
	5.1 50	
	Rebecca M. Horn, BS	
	Volunteer Research Assistant	
	University of California, Davis	
Poster	1 Shields Ave., 273 Vet Med II, Davis, CA 95616	Effect of urea and thiourea on
Accepted (and	(530)798-0758	structure-function properties in
Requested)	becky.horn@berkeley.edu	xenogeneic scaffold generation
	Ian L. Valerio, MD, MS, MBA	
	Ian L. Valerio, MD, MS, MBA, FACS	
	CDR, MC, USNR	
	Division Chief of Burn, Wound, & Trauma in Plastic Surgery	
	Associate Professor	
	Departments of Plastic and Reconstructive, General, and	
	Orthopedic Surgery	
	The Ohio State University Wexner Medical Center	
	915 Olentangy River Road, Suite 2100	
	Columbus, OH 43212	
	(P)614-293-8566	
	(F)614-293-9024	
	Email: ian.valerio@osumc.edu	
	Email. Ian.valeno@osumc.edu	
	Associate Professor, The Uniformed Services University of the	
	Health Sciences, Bethesda, MD	Application of Urinary Pladder
	Adjunct Accognite Professor The University of Ditteburgh	Application of Urinary Bladder
	Adjunct Associate Professor, The University of Pittsburgh	Matrix (UBM) in the Treatment
Dooto:	Medical Center, Pittsburgh, PA	Algorithms for Traumatic and
Poster	aall in 440 700 0077	Combat Casualty Extremity Wound
Accepted	cell is 412-728-3377	Care
	Jessica. L. Ungerleider, BS	Extracellular Matrix Harden and
	Leader I Hearth D O	Extracellular Matrix Hydrogel
	Jessica L. Ungerleider, B.S.	Promotes Tissue Remodeling,
- .	Graduate Student, UC San Diego	Arteriogenesis, and Perfusion in a
Poster	Department of Bioengineering	Rat
Accepted	Sanford Consortium for Regenerative Medicine	Hindlimb Ischemia Model

	2880 Torrey Pines Scenic Drive	
	La Jolla, CA 92037	
	Office Phone: (858) 246-1593	
	Email address: jlungerl@eng.ucsd.edu	
	Jenna Dziki, BS	
	Janna Drilki DC	
	Jenna Dziki, BS	
	Graduate Student	
	McGowan Institute for Regenerative Medicine	
	Department of Bioengineering University of Pittsburgh, Pittsburgh, PA	
	450 Technology Drive	
	Suite 300	
	Bridgeside Point II (BSP2)	
	Pittsburgh, PA 15219	Biologic Scaffold Treatment for
Poster	Tel: 412-721-3191	Volumetric Muscle Loss: Results of
Accepted	dzikijl@upmc.edu	a Thirteen Patient Cohort Study
Accepted	John C Lantis II, MD, FACS	a minteern attent conort study
	John G Lands II, IND, I ACC	
	John C. Lantis II, MD, FACS	
	Vice Chairman Department of Surgery	
	Chief of Vascular and Endovascular Surgery	
	Director of Surgical Clinical Research	
	Mt Sinai St Luke's and West Hospitals	Acellular Fish Skin Graft's Structure
	Professor of Surgery; Icahn School of Medicine	and Bioactivity is Better Preserved
	New York, NY	Compared to Mammalian Derived
Poster	212-5234797	Scaffolds due to Less Harsh
Accepted	Jlantis@chpnet.org	Processing
	Kelly Guthrie, MS	<u> </u>
	Kelly Guthrie, MS	
	Scientist, Regenerative Medicine	
	United Therapeutics	Automated Porcine Lung
Poster	55 TW Alexander Dr.	Decellularization System for
Accepted	RTP, NC 27709	Pulmonary Tissue Engineering
	Kimberley C. Sannajust	
	Kirch arlay O. Canacinat	
	Kimberley C. Sannajust	
	Volunteer Research Assistant	
Dantan	University of California, Davis	Effect of degree and an extracellular
Poster	1 Shields Ave., 273 Vet Med II, Davis, CA 95616	Effect of donor age on extracellular
Accepted (and	(925)699-3217	matrix composition in xenogeneic
Requested)	kcsannajust@ucdavis.edu	scaffold generation
	Kristen M. Stearns-Reider, PhD, PT	
	Kristen Stearns-Reider, PhD, PT	
	Post-Doctoral Scholar	
	Department of Integrative Biology & Physiology	
	University of California, Los Angeles	Electrodiagnostic Evaluation of
	610 Charles E Young Drive East, TLSB 1128	Individuals Implanted with
	Los Angeles, CA 90095	Extracellular Matrix for the
Poster	Kreider@ucla.edu	treatment of Volumetric Muscle
Accepted	310.794.2107	Injury
, toooptou	Lisa J. White	ngwr <i>y</i>
	Dr Lisa White	
	Marie Curie Research Fellow	
	Division of Drug Delivery and Tissue Engineering	
	Centre for Biomolecular Sciences	Detergent Decellularization
	University of Nottingham	Methods Affect the Surface
Poster	Nottingham	Molecular Functionality of Biologic
Accepted	NG7 2RD	Scaffolds

	Tel: 44 (0) 115 74 86312	
	lisa.white@nottingham.ac.uk	
Poster Accepted	Michael J. Buckenmeyer, BS	
·	Mr. Michael J. Buckenmeyer	
(Presented by	B.S. Mechanical Engineering, Fairfield University and M.S. in	
Dr. Brown)	Bioengineering, Syracuse University	
,	University of Pittsburgh (McGowan Institute for Regenerative	
	Medicine)	
	Bridgeside Point II Building, 450 Technology Drive, Suite	
	300,Pittsburgh, PA 15219	
	(315)409-5729	The Effect of ECM Stiffness on
	mjb235@pitt.edu	Ovarian Follicle Development
Poster	Michael Sikorski, BS	
Accepted		
	Mr. Michael J. Sikorski	
	B.S., Bioengineering, University of Maryland, 2015	
	Universidad Carlos III de Madrid	
	Escuela Politécnica Superior, Avd. de la Universidad, 30.	
	28911, Leganés (Madrid), España	Mechanical modulation of a human
	Department of Bioengineering and Aerospace Engineering	plasma-based skin scaffold via
	Phone: +34 916248207	reactive multi-arm polyethylene
Deste	Email: msikorsk@ing.uc3m.es	glycols
Poster	Ornella Tempo	
Accepted	Ornalla Tampa	
	Ornella Tempo	
	Senior (Chemical Engineering)	
	University of Connecticut	In Vitro Evaluation of Coloium
	554 Silas Deane Hwy Apt B.14 Wethersfield CT 06109	In Vitro Evaluation of Calcium
	8607190753	Peroxide Release from Composite
	ornella.tempo@uconn.edu or ornellatempo16@gmail.com	Poly(lacticco- glycolic acid) Microsphere Scaffolds
Poster	Pavan M. Hallur, BSc, MSc	gryconc acid/ Microsphere Scarroids
Accepted	r avair W. Flanar, 200, Web	
, toooptou	Mr. Pavan M Hallur, BSc. MSc.	
	Junior Research Fellow, Tissue Engineering and Regenerative	
	Medicine Programme,	
	Mazumdar Shaw Center for Translational Research,	
	#258/A, Narayana Health city, Bommasandra Industrial area,	3D hydrogel as a model to
	Bengaluru-560099	understand breast cancer
	mobile-+91-9738915916, e-mail- pavan.hallur@ms-mf.org	metastasis
	Seung-Hyun Kim, BS	
	Seung-Hyun Kim, BS	
	Integrated PhD program, Graduate student	
	Molecular and Cellular Engineering Laboratory	
	Department of Chemical and Biomolecual Engineering	
	Yonsei University	
	GS building 206, Yonsei-Ro 50, Seodaemun-Gu, Seoul, 120-	
	749 (Korea)	Self-assembled and Three-
Poster	(Tel) +82-2-2123-7456	dimensional Multilayered
Accepted (and	(Phone) +82-10-3336-0976	Electrospun Nanofibrous Scaffold
Requested)	(E-mail) ajckajck@naver.com	for Biomedical Applications
Poster	Slgirim Lee, PhD	
Accepted	Olatida Las Di D	Floring Chart
	Slgirim Lee, Ph.D	Electrospun Clay: Three-
	Department of Chemical and Biomolecular Engineering,	dimensional, macroscopic, and
	Yonsei University	macroporous electrospun sponges
	GS Caltex Research Hall Room 206, Yonsei University, 50	with high moldability and flexibility
	Yonsei-ro, Seodaemun-gu, Seoul 120-749, Korea	for stem cell and adeno-associated
	+82-2-2123-7456	viral vector delivery

	slgirim@yonsei.ac.kr	
	olg.iiii e yolloolido.iii	
Poster Accepted	Thais Polanco, MD	
	Thais Polanco, MD	
	Wound Repair and Regenerative Tissue Research Fellow	
	Mount Sinai St. Luke's - West Hospitals	
	1090 Amsterdam Ave	Tissue Generation with Acellular
	New York, NY 10025	Dermal Collagen Matrices: Clinical
	917-596-6454 The inner and 0.00 cm oil on m	Comparison of Human and Fetal Bovine Matrices
	Thaispolanco10@gmail.com Travis A. Prest, MS	Bovine Matrices
	Travis Prest, MS	
	University of Pittsburgh 111 S. Graham St.	
Doctor		Darinhard Narva Chasifia
Poster Accepted	University of Pittsburgh Pittsburgh, PA 15206	Peripheral Nerve-Specific Extracellular Matrix Hydrogel
(Presented by	724-322-8501	Supports Repair After Peripheral
Dr. Brown)	Travisprest@gmail.com	Nerve Injury
Di. Diowii)	Simone Liebscher, MSc	receive injury
	Simone Liebscher, MSc	
	Labmanager, Scientific Assistant	
	Schenke-Layland Lab	
	Research Institute of Women's Health	
	University Hospital Tuebingen	
	Silcherstr. 7/1	
Poster	Tuebingen, BW 72076 - Germany	Omics analyses of Islet-1+ clusters
Accepted -	(T) 0049-7071-29-85206	identify ECM proteins for
LATE (Katja)	simone.liebscher@med.uni-tuebingen.de	biomaterial functionalization
	Willeke Daamen, PhD	
	Willeke Daamen PhD	
	Assistant professor	
	Dept. of Biochemistry	
	willeke.daamen@radboudumc.nl	
	T +31 (0)24 361 05 57	
Dootor	Radboud university medical center	
Poster Accepted –	P.O.Box 9101, 6500 HB Nijmegen (280), The Netherlands	Chrinking colleges coeffolds to
LATE	Geert Grooteplein 28 (route 280) www.radboudumc.nl	Shrinking collagen scaffolds to modulate mechanical properties
LATE	Mónica Romero-López, MS	modulate mechanical properties
	Mónica Romero-Lónez	
	Mónica Romero-López MS BME	Human Tumor-Derived
	University of California Irvine (UCI)	Extracellular Matrix Recapitulates
	Hughes Lab/Room 2400 Biological Sciences 3	Tumor Vasculature compared with
Poster	Irvine, CA 92697	Human Normal-Derived Colon
Accepted –	949-233-3190	Matrix in a Three-Dimensional
LATE	mromerol@uci.edu	Model
_	Tim Keane	
	NSF Graduate Research Fellow	
	McGowan Institute for Regenerative Medicine	
	Department of Bioengineering	
	University of Pittsburgh	Restoring Mucosal Barrier Function
	450 Technology Drive	and Mediating Inflammation with an
	Pittsburgh PA 15219	Extracellular Matrix Hydrogel:
Poster	Tel. 412-624-5272	Potential Therapy for Ulcerative
Accepted	tik6@pitt.edu	Colitis

Michelle Scarritt	
Postdoctoral Associate McGowan Institute for Regenerative Medicine Department of Bioengineering University of Pittsburgh, Pittsburgh, PA 450 Technology Drive Suite 300 Bridgeside Point II(BSP2) Pittsburgh, PA 15219 Tel: (cell) 850-377-0017 scarrittme@upmc.edu	Toward Whole Liver Engineering: Liver Extracellular Matrix Promotes the Phenotype and Function of Human Induced Pluripotent Stem Cell (iPSC)-derived Hepatocytes and Endothelial Cells
Neill Turner, PhD	and Endoundhar Conc
Research Assistant Professor McGowan Institute for Regenerative Medicine University of Pittsburgh 450 Technology Drive Pittsburgh PA 15219 Tel. 412-624-5272 turnern@upmc.edu	Emerging Implications of Ineffective Biologic Scaffold Decellularization upon the Host Response
George Hussey, PhD	
George S. Hussey, Ph.D. Postdoctoral Associate McGowan Institute for Regenerative Medicine University of Pittsburgh School of Medicine, Department of Surgery 450 Technology Drive, Suite 300 Pittsburgh, PA 15219-3130 Tel: (412) 624-5272 husseygs@upmc.edu Luai Huleihel, PhD	Development of Biologic Scaffolds from Human Glioma Tumors as an Organotypic Model to Study Disease Pathogenesis
Luai Huleihel PhD McGowan Institute for Regenerative Medicine Department of surgery University of Pittsburgh, Pittsburgh, PA 450 Technology Drive Suite 300 Bridgeside Point II(BSP2) Pittsburgh, PA 15219 Tel: 412-708-3182 Email: huleihell@upmc.edu	Microvesicles Within ECM Bioscaffolds as a Modulator of Cell Behavior
Tissue Engineering and Cell Therapy Group	To evaluate L-PRF (Platelet Rich Fibrin) matrix membrane interaction with autologous and allogenic human mucosal fibroblasts and
Antioquia University	adipose derived mesenchimal stem
Tim Bolle DiplIng. Tim Bolle Medical Textiles Institut für Textiltechnik der RWTH Aachen University Otto-Blumenthal-Straße 1, D-52074 Aachen Fon: +49 (0)241 80 855 60	cells for dental applications Fibrin Gel-Based, Textile- Reinforced Scaffold for Demal- Epidermal Skin Replacements
	Department of Bioengineering University of Pittsburgh, Plttsburgh, PA 450 Technology Drive Suite 300 Bridgeside Point II(BSP2) Pittsburgh, PA 15219 Tel: (cell) 850-377-0017 scarrittme@upmc.edu Neill Turner, PhD Research Assistant Professor McGowan Institute for Regenerative Medicine University of Pittsburgh 450 Technology Drive Pittsburgh PA 15219 Tel. 412-624-5272 turnern@upmc.edu George Hussey, PhD George S. Hussey, Ph.D. Postdoctoral Associate McGowan Institute for Regenerative Medicine University of Pittsburgh School of Medicine, Department of Surgery 450 Technology Drive, Suite 300 Pittsburgh, PA 15219-3130 Tel: (412) 624-5272 husseygs@upmc.edu Luai Huleihel, PhD Luai Huleihel, PhD Luai Huleihel PhD McGowan Institute for Regenerative Medicine Department of surgery University of Pittsburgh, Pittsburgh, PA 450 Technology Drive Suite 300 Bridgeside Point II(BSP2) Pittsburgh, PA 15219 Tel: 412-708-3182 Email: huleihell@upmc.edu Gabriel Merizalde, BS Tissue Engineering and Cell Therapy Group Medicine Faculty Antioquia University Medellin Colombia South America

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Poster Accepted – not presenting	Juan Diego Naranjo Gutierrez	
?	Modo?	2