

Emerging Challenges in Tissue Engineering & Regenerative Medicine for the Next 15 Years:

Day 1- March 20, 2019 Agenda

8:00-9:00	Registration, Breakfast, Networking	
9:00 – 9:10	Opening Remarks	Prabhas Moghe
9:10-10:25	Scientific Session I: The Emerging Science of Tissue Engineering Chair: Elliott Gruskin	
9:10-9:35	The race to understand bioactivity: Does ECM contain a secret code?	Joachim Kohn
9:35-10:00	Evolutionary insights into tissue engineering	Celeste Nelson
10:00-10:25	Moving emerging tissue engineering applications into the clinic	Tony Windebank
10:25-10:45	Break	
10:45-12:00	Scientific Session II: The Current Status of Bioactive Scaffolds Chair: Jay Sy	
10:45-11:10	Bioprinting cell-laden hydrogels with built-in vasculature	Murat Guvendiren
11:10-11:35	Leveraging the extracellular matrix to enhance tissue regeneration	Jean Schwazbauer
11:35-12:00	Changing bioactive scaffolds after implantation	Horst von Recum
12:00-1:30	Lunch and Learn Moderator 1- Zheng Zhang, Mosaic Biosciences- Short demo on quick gelation Moderator 2- Luis Alvarez and Maziar <i>Shah Mohammadi</i> - Vascularization of Engineered Tissue Constructs: Requirements, Challenges and Future Perspectives Moderator 3- Jaimie Testai- “University-Industry Relationships” Moderator 4- Tony Windebank-TBA Moderator 5- Celeste Nelson-TBA Moderator 6- Horst von Recum-TBA Moderator 7- Jean Schwazbauer- Everything you always wanted to know about the ECM (but were afraid to ask) Moderator 8- Elliott Gruskin- Open Innovation & industry collaborations	
1:30-2:15	Scientific Session III: Funding Opportunities for Academic Research: NIH and NSF Chair: Laura Fabris	
1:30-1:55	Funding opportunities at NIH: What’s new at the zoo?	Rosemarie Hunzinker
1:55-2:15	How to collaborate with DoD R&D centers and align your research with DoD funding priorities.	Luis Alvarez
2:15-3:15	Scientific Session IV: Opportunities for Collaborative Research with Industry and Academia Chair: Stephen Tse	
2:15-2:30	Thiol-ene click chemistry for regenerative medicine	Zheng Zhang
2:30-2:45	Exploring the biological activity of industrial products	Yong Mao
2:45-3:00	Engineering microstructured polymer composites	Jerry Shan
3:00-3:15	Q&A (Panel)	
3:15-3:35	Break	
3:35-5:15	Scientific Session V: Advanced Applications Chair: Horst von Recum	
3:35-3:55	Bioengineered alveolar bone and tooth constructs	Weibo Zhang
3:55-4:15	Rebuilding the nervous system using tissue engineered “Living Scaffolds”	Kacy Cullen
4:15-4:35	Future Directions for Neural Implants	Jay Sy
4:35-4:55	Nanoparticles to probe intracellular events	Laura Fabris
4:55-5:15	Q&A (Panel)	
5:15-6:45	Reception/Poster	Peter March

Emerging Challenges in Tissue Engineering & Regenerative Medicine for the Next 15 Years:

Day 2- March 21, 2019 Agenda

8:30-9:00	Registration, Breakfast, Networking	
9:00-9:05	Opening, Ice Breaker	Joachim Kohn
9:05-9:40	Introduction to IMR: The Power of Collaboration	Joachim Kohn
9:40-10:55	Scientific Session VI: Examples of Industry- Inspired Biomanufacturing Research Chair: Professor Jerry Shan	
9:40-10:05	New Materials-Centric Technologies for Advanced Manufacturing & Biofabrication	Adam Jakus
10:05-10:30	Cell Therapy and Drug Delivery	Biju Parrekaddan
10:30-10:55	Challenges in Biomanufacturing – from Human Tissue Processing to 3D printing of Bioactive Implants	Yi Arnold
10:55-11:25	Networking Break	
11:25-12:15	Scientific Session VII: Funding for Industry-Academia Collaborations Chair: Jaimie Testai	
11:25-11:35	The University Perspective	David Kimball
11:35-11:45	TechAdvance Fund – Advancing Rutgers Technologies Toward Commercialization	Pavita Howe
11:45-11:55	How and why industry funds academia	Elliott Gruskin
11:55-12:05	Venture Capital funding for early stage companies	Peter Alff
12:05-12:15	Panel Discussion and Q&A	
12:15-1:30	Lunch Lunch and Learn Table Moderator 1- Richard Campos- Six Sigma and Lean in Healthcare Setting Moderator 2- Adam Jakus- Being an advanced biomaterials start-up company coming from academia Moderator 3- Sangya Varma- Workforce Development Moderator 4- Pavita Howe- Tech Advance <i>Special Session by Armi Jared Matthews</i>	
1:30-3:30	Scientific Session VIII: Beyond the Laboratory Chair: Ophir Ortiz	
1:30-2:00	Armi Overview: BioFabUSA technical program	Mary Clare McCorry
2:00-2:30	Overcoming common challenges in FDA review for regenerative medicine products	Stan Gerson
2:30-3:00	Discussion on regulatory science programs at the FDA	Becky Robinson-Zeigler
3:00-3:30	Workforce Development	Sangya Varma
3:30-3:45	Closing Remarks, Adjourn	