

Poster Number	Poster Title	Thrust	Lead Presenter(s)
1	Integration of imaging modalities with omics characterization	1	Priyanka Priyadarshani
2	Exosome protein and cell surface signature: a critical quality attribute for CMA <sup>T</sup>	1	Ty Maughton
3	Variability Assessment and Omics Characterization of CAR-T Cells Through an Integrative Computational Pipeline	1	Nate Dwarshuis
4	Associated Project: Sub-microliter Metabolomics For Sample-limited Phenotyping via Mass Spectrometry	1	Yafeng Li
5	Associated Project: Machine learning for image-based early predictions of functional properties in cell manufacturing	1	Bruce (Hong Seo) Lim
6	Associated Project: A Multi-omics approach to discover metabolic critical quality attributes for cardiomyocyte biomanufacturing	1	Aaron Simmons
7	Associated Project: Multi-omic Characterization of Therapeutic Cell Sources	1	Linda Kippner
8	Associated Project: MSC Characterization and Predictive Modeling	1	Pallab Pradhan
9	Development of real-time biosensors for monitoring cell and culture attributes during manufacturing	2	Chen Jiang and Zhaonan Liu
10	Dynamic sampling platform (DSP) for cell state analysis and dynamic bioreactor monitoring via in situ nanoESI-MS and FTIR/ATR-SEIRAS	2	Austin Culberson
11	Tissue-on-a-chip platform for mesenchymal stem cell potency	2	Becky Schneider
12	Associated Project: Scalable Transduction Device	2	Reggie Tran
13	Magnetoelastic Microcarriers for Real-time Tracking of Cell Loading	2	Salil Karipott
14	CAR T potency assay	2	Chaitanya Tondepu
15	Associated Project: Cord blood mononuclear cell quantification using Oblique back-illumination microscopy	2	Paloma Casteleiro Costa
16	Associated Project: Developing a microfluidics-based 3-D organoid system	2	Emily Jackson-Holmes and Jenni Li
17	Associated Project: Potentiometric chemical and biological sensor capsules for real-time measurement of cell properties in bioreactors	2	Billyde Brown
18	Associated Project: Smart Bioreactor with Integrated Flexible Sensors and Wireless Electronics	2	Yun Sung Kim and Hyoryoung Lim
19	Improving the quality of iPSC-derived cardiomyocytes by providing intercellular cues during scalable manufacturing	2&3	Mark Stathos
20	Development of Novel Supply Chain and Process Modeling Algorithms, Methods, and Tools for Cell Therapy Manufacturing and Distribution	3	Brian Liu
21	Associated Project: Towards closed loop control of cell production	3	Milad Navaei
22	Analysis of the Cryopreservation's Effect of Cell Isolates and Manufactured Therapeutic Phenotypes	3	Britney Washington
23	Effects of Culture Substrate Parameters on MSC secretome	3	Gilad Doron
24	EAGER: BIOMANUFACTURING: A Microscale Testbed to Assay and Manufacture CAR T Cell Immunotherapies	3	Louise Saraspe
25	Assembly of novel gene editing particles to understand genome surgery in patient-derived cells	3	Louise Saraspe and Brittany Russell

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26	Undergraduate Poster: Optimization of NK92 Cell Electroporation for the Delivery of CRISPR-Cas9 Gene Editing Machinery for Homology Directed Repair	3	Brittany Russell
27	RET: Culturation of MSCs for Confluency & Viability in a High School	1	Stan Harrison
28	REU: Towards Development of a Reference Standard Curve for Assessing MSC Potency and Comparability	1	Arafat Fayuyi
29	REU: Optimization of Synthetic Nanoparticle Antibody Fabrication for Treatment of Critical Bone Injuries	1	David Frey
30	Project ENGAGES (Young Scholars Program): Degradable Microscaffold Expansion of CAR T Cells for Immunotherapy	1	Miranda Rivera
31	Project ENGAGES (Young Scholars Program): Treatment of Systemic Immune Dysregulation After Severe Musculoskeletal Trauma Using Gold Nanoparticles	1	Nathaniel Dobson
32	Project ENGAGES (Young Scholars Program): Immune Cell Interactions With Functionalized PEG-MAL Hydrogels	2	Kelsey Lawrence
33	REU: Optimization of a 3D Microfluidic Platform Modeling GBM Immune Evasion	2	Rachel Fitzgerald
34	REU: Investigating Synthetic Hydrogels in Bone Marrow-On-Chip Devices	2	Fernando Martínez
35	REU: Enhancing Cardiac Differentiation and Potency of hiPSC with Anisotropic Substrates	2&3	Kaiya Mitchell
36	REU: Testing and Analyzing the Mechanical Properties of Wet-electrospun Yarns for Tissue Engineering with Textile Arts	3	Carolina Colon
37	REM: Fabrication of photocrosslinked hydrogels with various ligands to support 3D MSC Culture	3	Barry Bates
38	REM: Assessment of the Ability of MSCs to Promote Muscle Regeneration Following Rotator Cuff Tear	3	Kasheena Box
39	Puerto Rico and the Cell Therapies Manufacturing Global Value Chain SubProject 1 : Detailed Mapping of the Existing Pharma/Biotechnology Industry in Puerto Rico	IE	Liz Bonilla
40	Puerto Rico and the Cell Therapies Manufacturing Global Value Chain SubProject 2: The Cell Therapies Manufacturing Global Value Chain	IE	Diana Vélez
41	Puerto Rico and the Cell Therapies Manufacturing Global Value Chain SubProject 3: Commercialization Potential and Commercialization Model for CMaT Innovations	IE	Diego Rivera Campos and Michelle Hernandez Torres