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**2023 CMaT Annual Retreat**

**November 17-19, 2023**

**The Condado Plaza Hotel**

**San Juan, Puerto Rico**

**Friday, November 17th**

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| By 6:00 PM | **Arrival to SJU Airport** |
| 6:30-10:30 pm | **CMaT Retreat Welcome Dinner**  **Special Surprise from the University of Puerto Rico at Mayagüez**  Location: Brisas de Mar  Participants: all CMaT & Families |

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**Saturday, November 18th**

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| 8:00 – 9:00 am | **Registration and Breakfast**  Location: Grand Ballroom Foyer  Participants: all CMaT |
| 9:00 – 9:45 am | **Welcome & State of the Center Address**  Location: Grand Ballroom  Participants: all CMaT |
| 9:45 – 10:45 am | **Keynote**  **Ivan Lugo-Montes | Executive Director**  **Industry-University Research Center, Inc.**  Location: Grand Ballroom  Participants: all CMaT |
| 10:45 am | **Break** |
| 11:00 – 1:00 pm | **Research Presentations I**  Location: Grand Ballroom  Participants: all CMaT |
| 1:00 – 3:00 pm | **Lunch and Poster Session**  Location: Grand Ballroom  Participants: all CMaT |
| 3:00 – 4:00 pm | **Research Presentations II**  Location: Grand Ballroom  Participants: all CMaT |
| 4:00 pm | **Break** |
| 4:15 – 5:15 pm | **3 Minute Thesis Competition**  Location: Grand Ballroom  Participants: all CMaT |
|  | **3 Minute Thesis Judging**  Location: Grand Ballroom |
| 5:15 – 5:30 pm | **Group Photo** |
| 5:30 – 6:30 pm | **Test-bed Breakout Sessions**  **Locations:**  MSC= Grand Ballroom  Immune Cell = Brisas de Mar  iPSC=Horizonte  Participants: MSCs, Immune Cell, iPSC |
| 7:00 pm | **SLC Trainee Activity/Dinner**  <https://chat.whatsapp.com/EJwS1ppuP9pGIww9VlUXBs>  Participants: Trainees |
| 7:00 pm | **Dinner on your own for everyone else** |

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**Sunday, November 19th**

|  |  |
| --- | --- |
| 8:30 – 9:30 am | **Registration and Breakfast**  Location: Grand Ballroom Foyer  Participants: all CMaT |
| 9:30 – 9:55 am | **Award Announcements**  Location: Grand Ballroom  Participants: all CMaT |
| 9:55 - 10:55 am | **Required CMaT Training**  Location: Grand Ballroom  Participants: all CMaT |
| 10:55 am | **Break** |
| 11:10 – 11:55 am | **Industry Panel**  Location: Grand Ballroom  Participants: all CMaT |
| Noon – 1:00 pm | **Thrust Breakout Sessions**  **Locations:**  Thrust 1= Brisas de Mar  Thrust 2 = Grand Ballroom  Thrust 3= Horizonte  Participants: Thrust 1, Thrust 2, Thrust 3 |
| 1:00 – 2:00 pm | **Lunch, Poster Viewing & Networking**  Location: Grand Ballroom  Participants: all CMaT |
| 1:00 – 2:00 pm | **SLC Information Session**  Location: Brisas de Mar  Participants: Trainees |
| 2:00 pm | **Adjourn**  Thank you for joining us and have safe travels! |

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| **Time** | **Project Title** | **Presenter** | **Institution** |
| 11:00 – 11:10  (5 min Q&A) | Testing the therapeutic potency of T cells | Amin Davazarni/  Karumbaiah & Mao Labs | UGA |
| 11:15 – 11:25  (5 min Q&A) | Liquid Crystal Droplet-Based Biosensors for Cell Manufacturing Processes | Maria Oñate/ Acevedo-Vélez Lab | UPRM |
| 11:30 – 11:40  (5 min Q&A) | Critical Process Parameter (CPP) Sensing, Automation, and Feedback Control in a Vertical Wheel Immune Cell Bioreactor | Walker Byrnes/  Balakirsky Lab | GT |
| 11:45 – 11:55  (5 min Q&A) | Development of Novel Supply Chain and Process Modeling Algorithms, Methods, and Tools for Cell Therapy Manufacturing and Distribution | Zhaowei Li / White Lab | GT |
| 12:00 – 12:10  (5 min Q&A) | QbD approach for cell manufacturing | Masahiro Kino-oka | Osaka University |
| 12:15 – 12:25  (5 min Q&A) | Identification of Epigenetic Markers of  Cardiomyocyte Differentiation & Maturation | Xiangyu Zhang / De La Fuente Lab | UGA |
| 12:30 – 12:40  (5 min Q&A) | Synthetic Hydrogels for iPSC-Derived Cardiomyocyte Differentiation and Maturation | Margot Amitrano / Murphy Lab | UW |
| 12:45 – 12:55  (5 min Q&A) | Manufacturing iPSC-derived CNS Models and Extracellular Vesicle Therapeutics | Morgane Golan & Brady Lundin / Stice & Ashton Labs | UGA / UW |
|  |  |  |  |
| 3:00 – 3:10  (5 min Q&A) | Morphological analysis of microglia as an indicator of mesenchymal stromal cell potency | Kanupriya Daga / Marklein Lab | UGA |
| 3:15 – 3:25  (5 min Q&A) | Leveraging mitochondrial bioenergetics for long-term quality control and near-term optimization of live MSC potency | Kejie (Jessica) Rui / Mortensen Lab | UGA |
| 3:30 – 3:40  (5 min Q&A) | Heparan Sulfate and Collagen microcarriers for minimally supplemented culture media studies in MSCs | Natalia Theran Suarez/Domenech Lab | UPRM |
| 3:45 – 3:55  (5 min Q&A) | Use of a novel ambient transportation system to facilitate cell therapy applications for Endothelial Colony Forming Cells (ECFCs) | Kiran Mcloughlin/ Medina Lab | Queens University Belfast |

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Scan here for poster session directory