

Sunday 6th February	
09:00 – 16:30	<p>Preconference workshop:</p> <p><i>How Can Analytics Enable Manufacturing Automation, Process Robustness, and Deliver Patient Access to Life-Saving Cell-Based Therapies?</i></p> <p><u>Chaired by</u></p> <p>Nina Bauer (Millipore Sigma) Carolyn Yeago (Georgia Tech) Thomas Heathman (Ori Biotech)</p> <p><u>Confirmed speakers:</u></p> <p>Damian Marshall – Achilles Therapeutics Taby Ahsan – MD Anderson Cancer Centre Scott Jackson – NIST Joseph Valdez – Berkeley Lights Inc John Churchwell – CGT Catapult</p>
17:00 – 18:00	<p>Conference opening ceremony</p> <p>Plenary fireside chat – <i>Where is the cell and gene therapy field heading and how can we increase patient access</i></p> <p>Sean Palecek - Host</p>
18:30 – 21:00	Welcome drinks and Networking

Monday 7th February	
08:30 – 09:10	Michele Sadelain , Memorial Sloan Kettering – <i>Session 1 Plenary presentation</i>
09:10 – 10:30	<p>Session 1 Gene editing and emerging technologies</p> <p>Chaired by Ricardo Baptista (Procella therapeutics) and Krishanu Saha (University of Wisconsin)</p> <p>Samir El Andaloussi, Karolinska Institute – Invited presentation</p> <p>Tom Brieva – Tmunity therapeutics – Invited presentation</p> <p>Boon Hwa Neo, Lonza - <i>Automated manufacturing of human T cells with non-viral gene delivery: Cocoon® Platform integrated with the 4D-Nucleofector™ LV Unit</i></p>
	Refreshment break
10:50 – 12:30	<p>Session 1 Gene editing and emerging technologies continued</p> <p>Alois Jungbauer, University of Vienna - <i>Extra Cellular Vesicles Separation and Biophysical Characterization</i></p> <p>Lili Belcastro, Bristol Myers Squibb - <i>Journey to commercialization of a complex, biological ancillary material</i></p> <p>Lauren Sarko, University of Wisconsin - <i>post134 Virus-Free CRISPR CAR T Cells Induce Solid Tumor Regression</i></p> <p>Poster snapshot presentations</p>
12:30 – 14:10	Lunch and Networking

14:10 – 14:50	David Schaffer , UC Berkeley – <i>Session 2 Plenary presentation</i>
14:50 – 16:10	Session 2 Advances in viral vector manufacturing Chaired by Paula Alves (iBET) and Sven Ansorge (ExCellThera) Manny Otero , Turnstone Biologics – <i>Invited presentation</i> Ying Jung , Bluebird Bio – <i>Invited presentation</i> Konstantin Konstantinov , Codiak Bio, <i>Invited presentation</i>
	Refreshment break
16:30 – 18:10	Session 2 Advances in viral vector manufacturing continued Gwendal Gränicher , Max Planck Institute - <i>Integrated end-to-end MVA viral vector production: Perfusion culture shows economical advantage over batch culture</i> Annabel Lyle , University College London - <i>Process Economics Evaluation of Adeno-associated Viral Vector (AAV) Manufacturing</i> Kory Blocker , University of Pennsylvania - <i>Developing a Suspension Transfection Platform to Produce Adeno-Associated Viruses</i> Poster snapshot presentations
18:30 – 20:00	Conference dinner
20:00 – 21:30	Poster session and networking drinks

Tuesday 8 th February	
08:50 – 10:10	Session 2 Advances in viral vector manufacturing continued Nripen Singh , Passage Bio - Considerations of Manufacturability for AAV based Gene Therapy Products for Rare Diseases Carme Ripoll Fiol , University College London - Process development of a serum-free and scalable lentiviral vector manufacturing platform for cellular immunotherapies. Tania Pereira Chilima , Univercells - A dual platform revolutionizing gene therapy manufacturing
	Refreshment break
10:50 – 11:30	Jen Moody , Pall Biotech – Session 3 Plenary presentation
11:30 – 12:50	Session 3 Advances in cell Therapy manufacturing Chaired by Jo Mountford (University of Glasgow) and Masahiro Kino-oka (Osaka University) Allan Dietz , Mayo Clinic – <i>Invited presentation</i> Rupa Pike , Thermo Fisher – <i>Invited presentation</i> Ricardo Baptista – Procella therapeutics – <i>Invited presentation</i>
	Lunch and Networking
14:30 – 15:50	Session 3 Advances in cell Therapy manufacturing continued

	<p>Rui Li, University of Minnesota - <i>Optimized DMSO-Free Cryopreservation of iPSC Cells – What Does It Entail? How Can It Benefit iPSC Manufacturing?</i></p> <p>Jeff Zurawski, Discgenics - <i>Scale-up of allogeneic disc cell therapy suspension culture and harvest</i></p> <p>Ioannis Papantoniou, KU Leuven - <i>Towards robotics-driven automated manufacturing of functional organoid-based skeletal implants</i></p>
	Refreshment break
16:10 – 17:50	<p>Session 3 Advances in cell Therapy manufacturing continued</p> <p>Sho Sato, Fujifilm Cellular Dynamics - <i>Scalable downstream process development and manufacturing in cGMP for human iPSC derived products</i></p> <p>Lavanya Peddada, Century therapeutics - <i>Key drug product considerations for iPSC-derived NK cell therapies</i></p> <p>Bryan Wang, Georgia Tech - <i>Advanced manufacturing process design for Mesenchymal Stromal Cell therapies</i></p> <p>Poster snapshot presentations</p>
18:30 – 22:00	Social event – Boat party

Wednesday 8th February	
08:30 – 09:10	Dayue Chen , Genentech – <i>Session 4 Plenary presentation</i>
09:10 – 10:30	<p>Session 4 Analytics and Big Data</p> <p>Chaired by Behnam Ahmadian Baghbaderani (Lonza) and Boyan Yordanov (Scientific technologies)</p> <p>Nicholas Clarkson, Oxford Biomedica – <i>Invited Presentation</i></p> <p>Susanne Rafelski, Allen Institute – <i>Invited Presentation</i></p> <p>Marc-Olivier Baradez, CGT Catapult – <i>invited Presentation</i></p>
	Refreshment break
10:50 – 12:30	<p>Session 4 Analytics and Big Data continued</p> <p>James Colter, University of Calgary - <i>Assessing interaction networks within iPSC expansion bioprocessing to elucidate complexities of cellular phenotype and develop advanced process control strategies</i></p> <p>James Piret, University of British Columbia - <i>Raman spectroscopy as a process analytical technology for regulatory T-cell manufacturing</i></p> <p>Roland Ashton, Bristol Myers Squibb - <i>Hybrid modeling approaches for autologous cell therapy process characterization</i></p> <p>Poster snapshot presentations</p>
	Lunch and Networking
14:10 – 14:50	Andy Tay – Chris Hewitt Award Lecture
14:50 – 15:30	Yan Zhang , Mission Bio – <i>Session 5 Plenary presentation</i>
15:30 – 16:50	Session 5 The future of product release

	<p>Chaired by Lorraine Borland (Sartorius Stedim) and Azadeh Golipour (AvroBio)</p> <p>Luca Biasco, AvroBio – <i>Invited Presentation</i></p> <p>Stuart Wright, Sartorius – <i>Invited presentation</i></p> <p>Amy Glekas, Merck Millipore – <i>Invited presentation</i></p>
	Refreshment break
17:10 – 18:50	<p>Session 5 The future of product release continued</p> <p>Ian Anderson, Pharmaron - <i>Applying New Technology and Approaches to the Analytical Challenge of assessing the empty full ratio for Adeno associated virus</i></p> <p>Lily Li, CGT Catapult - <i>Development of a disruptive Mass Photometry technology for AAV Empty Full quantification</i></p> <p>Purna Venkataraman, Bluebird Bio - <i>Quality Implications of Cryopreservation: Building a small-scale model to determine the shelf-life of cryopreserved blood products for drug product manufacturing</i></p> <p>Poster snapshot presentations</p>
19:30 – 21:30	Conference Banquet