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

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

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

	Tuesday 8th 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 developent 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 – *Invited presentation* **Rupa Pike**, Thermo Fisher – *Invited presentation* **Ricardo Baptista** – Procella therapeutics – *Invited presentation*
	Lunch and Networking
14:30 – 15:50	**Session 3 Advances in cell Therapy manufacturing continued**

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

	Wednesday 9th February
08:30 – 09:10	**Dayue Chen,** Genentech – *Session 4 Plenary presentation*
09:10 – 10:30	**Session 4 Analytics and Big Data** Chaired by **Behnam Ahmadian Baghbaderani** (Lonza) and **Boyan Yordanov** (Scientific technologies) **Nicholas Clarkson**, Oxford Biomedica – *Invited Presentation* **Susanne Rafelski**, Allen Institute – *Invited Presentation* **Marc-Olivier Baradez**, CGT Catapult – *invited Presentation*
	Refreshment break
10:50 – 12:30	**Session 4 Analytics and Big Data continued** **James Colter**, University of Calgary - *Assessing interaction networks within iPSC expansion bioprocessing to elucidate complexities of cellular phenotype and develop advanced process control strategies* **James Piret**, University of British Columbia - *Raman spectroscopy as a process analytical technology for regulatory T-cell manufacturing* **Roland Ashton**, Bristol Myers Squibb - *Hybrid modeling approaches for autologous cell therapy process characterization* **Poster snapshot presentations**
	Lunch and Networking
14:10 – 14:50	**Andy Tay** – Chris Hewitt Award Lecture
14:50 – 15:30	**Yan Zhang**, Mission Bio – *Session 5 Plenary presentation*
15:30 – 16:50	**Session 5 The future of product release**

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