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| Date | Classroom | Section | Topic | Presenter |

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| Aug 29  (Thu) | 1-8513 by Lower S Auditorium | Intro to Biomanufacturing and Good Manufacturing Practices (GMP) | What is Biomanufacturing and GMP? | *Luisa Davies*  Director of the Upstate Stem Cell cGMP facility (USCGF) |

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| Sep 3  (Tues) | G-8534 Anderson Room | The Real world: Cell-based therapies for clinical trials | GMP manufacturing of cell and gene therapy products for clinical trials and beyond (Part 1) | *Gerhard Bauer*  Director of the Good Manufacturing Practice (GMP) laboratory at  *UC Davis Institute for Regenerative Cures* |
| Sep 3 (Tues)  2:00 PM-2:30 PM | **1-7438 Hawkins** | *Mentoring up* | *Discussion of Case studies and possible solutions to challenging situations that may occur during graduate school or postdoctoral training* | ***Luisa Davies and Gerhard Bauer*** |
| Sep 5  (Thu) | **1-8513 by Lower S Auditorium** | The Real world: Cell-based therapies for clinical trials | **GMP manufacturing of cell and gene therapy products for clinical trials and beyond (Part 2)** | ***Gerhard Bauer***  Director, *UC Davis Institute for Regenerative Cures* |

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| Sep 10  (Tues) | 1-6200D Miner | USCGF GMP lab | Intro to USCGF Facility, Qualification concepts, facility design and flow, environmental control, Batch records, Compounding records, In-process tests, QC Release testing | *Luisa Davies*  Director  USCGF |
| Sep 12  (Thu) | **1-8513 by Lower S Auditorium** | USCGF GMP tour | **GMP Facility tour; Learning proper gown in procedures and gowning SOP writing practice** |
| Sep 17  (Tues) | 1-6200D Miner | USCGF GMP lab | Intro to USCGF Facility, Qualification concepts, facility design and flow, environmental control, Batch records, Compounding records, In-process tests, QC Release testing |

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| Sep 19  (Thu) | 1-8513 by Lower S Auditorium | GMP Quality Management System | Intro to quality system elements (document control, change control, CAPA, supplier qualification, raw materials management, product release, auditing, personnel training) | *Carrie Bowman*  Director, Research and compliance  *USCGF* |

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| Sep 24 (Tues) | SRB 1412 | Clinical development of a Therapeutic Monoclonal Antibody | Clinical Development of a Passive Immunization for MRSA Infection of Total Joint Replacements | Edward Schwarz  Co-Founder and Chief Science Advisor Telephus Biosciences |

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| Sep 26  (Thu) | 1-8513 by Lower S | Genetics | In vivo reverse genetics | *Luis Martinez-Sobrido*  Associate Professor *URMC* |

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| Oct 1  (Tues) | SRB 1412 | Drug and Cell-based Therapies Overview | Bringing Bench science to the bedside | Steve Dewhurst  Vice Dean for research, University of Rochester Medical Center (URMC) |

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| Oct 3  (Thu) | 1-8513 by Lower S Auditorium | Manufacturing and Bioprocess Engineering | Aspects of Bioprocess Engineering  (downstream processing) | *Jason Condon*  Senior Project Manager  Vaccinex |

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| Oct 8  (Tues) | 1-6200D Miner | Intro to Upstream Process | Fermentation, cell culture, bioreactors, process control | *Charles Rutter*  Senior Scientist  BTEC at NC State University |
| Oct 10  (Thu) | **1-8513 by Lower S Auditorium** | **Process development, scale-up, process validation** |

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| *Fall Break* |

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| Oct 22  (Tue) | SRB 1412 | Disease Modeling | Stem cell-based organoids for disease modeling and therapy | *Ben Cosgrove*  Assistant Professor  Biomedical Engineering  Cornell University |

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| Oct 24  (Thu) | 1-8513 by Lower S Auditorium | Disease Modeling | In vitro disease modeling of neuropsychological diseases | *Bryan Vought*  Principal Research Scientist  Alkermes |
| Oct 24 (Thu)  11:00 AM-12:00 PM | **1-8513** | *URBEST Career Story organized by Tracey Baas* | All students/faculty are welcome to attend |

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| Oct 29  (Tue) | G-8534 Anderson Room | The Real world: Cancer Immunotherapy | Tethering IL-12 to the surface of T cells induces broad immune activation and potent anti-tumor activity in mice without inducing systemic toxicities | *Dave Pajerowski*  Senior Director Translational Product Engineering  Torque Therapeutics |
| Oct 31  (Thu) | **1-8513 by Lower S Auditorium** | Deep™ IL-15 Primed multi-targeted T cells demonstrate potent antigen-specific cytotoxic activity against human cancer cells | **Eden Fucci**  Vice-President of Biologics Manufacturing  **Torque Therapeutics** |
| Oct 31 (Thu)  11:00 AM-12:00 PM | **1-8513** | *URBEST Career Story organized by Tracey Baas* | All students/faculty are welcome to attend |

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| Nov 5  (Tue) | 1-9525 &  1-9535 (Northeastern Room) | The Real world: Cancer Immunotherapy | Connecting the dots: Practical considerations for early stage clinical evaluation of an advanced cell therapy | James Clements  Director of Project Management  Athenex |
| Nov 5 (Tue)  11:00 AM-12:00 PM | Northeastern Room | *URBEST Career Story organized by Tracey Baas* | All students/faculty are welcome to attend |

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| Nov 7  (Thu) | 1-8513 by Lower S Auditorium | The Real world: Cell therapy, Engineering and Automation | Automation and life cycle management for cell therapy applications | Fabio Fachin  Head, Cell therapy and Automation  Takeda |
| Nov 7 (Thu)  11:00 AM-12:00 PM | Room: TBD | *URBEST Career Story organized by Tracey Baas* | All students/faculty are welcome to attend |

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| Nov 12  (Tue) | KMRB 3-9654 | Class Presentation | Current Topics in Biomanufacturing/Case Studies |  |
| Nov 14  (Tue) | **KMRB 3-9654** |
| Nov 19  (Thu) | **KMRB 3-9654** |
| Nov 21  (Thu) | **KMRB 3-9654** |

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| *Thanksgiving recess* |

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| Dec 3  (Tues) | KMRB 3-9654 | Revisions | Gowning SOP revision | *Luisa Davies*  USCGF |
| Dec 05 (Thu) | **KMRB 3-9654** | Revisions | Review on topics learnt |
| Dec 9  (Tues) | **KMRB 3-9654** | Revisions | Review on topics learnt |
| Dec 11 | E-mail | Final evaluation | Delivery of a 2-page review paper |