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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*DirectorUSCGF |
| 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 DewhurstVice 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 ManagerVaccinex |

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| Oct 8(Tues) | 1-6200D Miner | Intro to Upstream Process | Fermentation, cell culture, bioreactors, process control | *Charles Rutter*Senior ScientistBTEC 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 ProfessorBiomedical EngineeringCornell 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 ScientistAlkermes |
| 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 EngineeringTorque 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 ClementsDirector of Project ManagementAthenex |
| 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 FachinHead, Cell therapy and AutomationTakeda |
| 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 |