CAMB 605 Course Syllabus (Fall 2023)

Tuesdays 1:45-3:15p
September 5 – December 12, 2023

Course Directors:
John Seykora (seykora@pennmedicine.upenn.edu), 1011 BRB
Matt Good (mattgood@pennmedicine.upenn.edu), 1151 BRB

Paper Presentation Schedule

9/5. CAMB 605 Course Overview

9/12. MVP. Human STING is a proton channel

9/19. G&E. A signalling pathway for transcriptional regulation of sleep amount in mice

9/26. CPM. REV-ERB nuclear receptors in the suprachiasmatic nucleus control circadian period and restrict diet-induced obesity

10/3. GTV. Personalized RNA neoantigen vaccines stimulate T cells in pancreatic cancer
Nature 2023. https://doi.org/10.1038/s41586-023-06063-y

10/10. DSRB. Post-gastrulation synthetic embryos generated ex utero from mouse naive ESCs

10/17. CB. Oncogene-like addiction to aneuploidy in human cancers

10/24 – No CAMB 605 class

10/31. MVP. A viral biomolecular condensate coordinates assembly of progeny particles

G&E 11/7. Polygenic scoring accuracy varies across the genetic ancestry continuum.

CPM 11/14. Circadian Entrainment Triggers Maturation of Human In Vitro Islets

11/21 – No CAMB 605 class

11/28. GTV. TET2 guards against unchecked BATF3-induced CAR T cell expansion
Nature 2023. https://doi.org/10.1038/s41586-022-05692-z
12/5. DSRB. Embryo model completes gastrulation to neurulation and organogenesis
Nature 2022. https://doi.org/10.1038/s41586-022-05246-3

12/12. CB. A covalent inhibitor of K-Ras(G12C) induces MHC class I presentation of haptenated peptide neoepitopes targetable by immunotherapy