To streamline the recombinant production of multiprotein complexes for basic research and translational medicine, an array of advanced and automatable expression systems have been developed for E. coli, insect and mammalian cells. Those systems, especially the MultiBac system (used in >1,000 academic and industrial labs), have greatly contributed to structural and functional studies of numerous important multiprotein complexes. In this talk, I will present the basic design principles of the MultiBac system and discuss several critical technical aspects when expressing challenging multiprotein complexes in insect cells, as exemplified by our latest results of several essential transcription complexes.


Keywords: Baculovirus Expression Vector System, MultiBac, Transcription Complexes