**Mei-heng Lin, Post-doctoral Associate, CMBN, SASN.** I am very honored receive this two-year postdoctoral fellowship award from the New Jersey Commission on Cancer Research. My mentoring team on this award include Dr. Travis Baker, assistant professor at Center for Molecular and Behavioral Neuroscience, Dr. Peter Cole, Division Chief of Pediatric Hematology/Oncology at Rutgers Cancer Institute of New Jersey, and Dr. Miriam Rosenberg-Lee, assistant professor at Psychology department. The overarching goal of this project is to evaluate the neurotoxic effect of non-central nervous system (CNS)-directed chemotherapy on neural, behavioral, and computational correlates of cognitive control in pediatric survivors of non-CNS solid tumors. We aim to recruit two groups of participants: survivors of childhood non-CNS solid tumors (e.g., osteosarcomas, lymphomas, carcinomas, and neuroblastomas) aged 6–11 years old and age-matched typically developing children. We will examine their cognitive control functioning via electroencephalogram (EEG) and a battery of neuropsychological assessments. The scientific premise for this translational work is that non-CNS-directed chemotherapy may alter certain neural and computational processes required for cognitive control, and that identifying neurocognitive phenotypes that are susceptible to non-CNS-directed chemotherapy may provide the key to understanding the potential cognitive control deficits exhibited in pediatric cancer survivors. The findings will help develop strategies aimed at protecting pediatric survivors of non-CNS solid tumors from the adverse effects of non-CNS-directed chemotherapy and developing therapeutic interventions tailored to the cognitive profile of this population in preclinical medical models.