**High Impact Discoveries by UAB CFAR Members**

- Association of increased chronicity of depression with HIV appointment attendance, treatment failure, and mortality (JAMA Psychiatry 2018)
- Solving the protein structure and membrane interaction of the cytoplasmic tail of gp41 (Structure 2017)
- Myocardial Infarction Among Human Immunodeficiency Virus Infected Individuals in the United States (JAMA Cardio 2017)
- Autologous adaption predicts faster HIV disease progression (Nat Med. 2016)
- Survival by Race/Ethnicity and Sex Among Treated, HIV-infected Adults in the United States (CID 2015)
- Beyond Core Indicators of Retention in HIV Care: Missed Clinic Visits Are Independently Associated With All-Cause Mortality (CID 2014)
- Kinase control of latent HIV-1 infection: PIM-1 kinase as a major contributor to HIV-1 reactivation. (J Virol 2014)
- The transcription factor Foxp1 is a critical negative regulator of the differentiation of follicular helper T cells. (Nat Immunol 2014)

**PRIOR BUDGET PERIODS**

- Established the role of drugs with primary and secondary cell-differentiating capacity are potent HIV-1 reactivating agents and should be explored in HIV-1 cure research (J Virology 2012)
- Integrate Patient Reported Outcomes, a series of brief, validated behavioral questionnaires, into clinical practice and use the data for cohort research (CID 2012)
- Develop the concept of Viremia Copy Years (VCYs) for use in quantifying the detrimental effects of ongoing viral replication on morbidity and mortality in HIV-infected patients (CID 2011)
- Exploring the zoonotic origins of HIV-1 (Nature 1999; Nature 2006; Science 2008) and Identifying the transmitted HIV-1 envelope and complete genome/proteome responsible for HIV infection (PNAS 2008)
- Leading the first-in-human phase 1 clinical studies of 7 currently approved therapies (NEJM 1993; Nat Medicine 1998; JAMA 2006)
- Spearheading neutralizing antibodies (Nature 2003)
- Highlighting HIV-1 escape from cytotoxic T-cells (Nat Medicine, 1997)
- Understanding viral dynamics in acute and chronic infection (NEJM 1991; Nature 1995)
- Discovery of HIV-1 quasispecies diversity (Nature 1988); the detection of HIV-1 RNA in plasma