

This Funding Opportunity Announcement (FOA) is associated with the [Beau Biden Cancer MoonshotSM Initiative](#) that is intended to accelerate cancer research. The purpose of this FOA is to promote research that results in a comprehensive view of the dynamic, multidimensional tumor ecosystem. Specifically, this FOA targets the following area designated as a scientific priority by the Blue Ribbon Panel (BRP): *Generation of Human Tumor Atlases*.

For the purposes of this FOA, a human pre-cancer atlas is defined as a multidimensional cellular, morphological and molecular mapping of human pre-malignant tumors, complemented with critical spatial information (at cellular and/or molecular level) that facilitate visualization of the structure, composition, and multiscale interactions within the tumor ecosystem over time resulting in progression or regression of the tumors.

The tumor atlases will be developed by the Human Tumor Atlas Network (HTAN), which will include the Pre-Cancer Atlas (PCA) Research Centers (this FOA), the Human Tumor Atlas (HTA) Research Centers (solicited under companion [RFA-CA-17-034](#)), an HTAN Data Coordinating Center (solicited under companion [RFA-CA-17-036](#)), and an HTAN Tissue Coordinating Center (anticipated to be developed in Fiscal Year 2019).

Through this FOA, the National Cancer Institute (NCI) invites applications for the PCA Research Centers, a collaborative research initiative that aims to construct comprehensive, dynamic, high-resolution, multidimensional, multiparametric, temporal and scalable atlases of pre-cancerous lesions and their surrounding microenvironment for select organ sites, including high-priority cancers that disproportionately affect minority and underserved patients. A deeper understanding of the transition from pre-malignant to malignant state as a function of time will allow the development of more precise risk stratification methods and effective early intervention strategies.

Each PCA Research Center will lead the construction of at least one human pre-cancer atlas for use by the research and clinical communities. The data and analytical tools generated by the PCA Research Centers will be made available to the research community through the aid of the HTA Data Coordinating Center.

Announcement Number	Related Announc.	Issuing Organization	Release Date *	Opening Date (SF424 Only) ?	Expiration Date	Activity Code(s)	Title
RFA-CA-17-035	See Related	NCI	10/20/2017	12/18/2017	01/19/2018	U2C	Human Tumor Atlases (HTA) Precancer Atlas Research Centers (U2C)
RFA-CA-17-034	See Related	NCI	10/20/2017	12/18/2017	01/19/2018	U2C	Human Tumor Atlases (HTA) Research Centers (U2C)
RFA-CA-17-036	See Related	NCI	10/20/2017	12/18/2017	01/19/2018	U24	Human Tumor Atlas Network: Data Coordinating Center (U24)