



Exhibit A

**RESOLUTION  
BOARD OF DIRECTORS  
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.**

**BE IT RESOLVED** that the individuals holding the following positions in their capacity as officers of the University of Louisville Research Foundation, Inc. (ULRF) or employees of the University of Louisville (UofL) acting as agents for the Research Foundation be and hereby are the only officers and agents of the Research Foundation empowered to execute contracts on behalf of the University of Louisville Research Foundation, Inc. (including contracts with the Army, the Air Force, and the Veterans Administration, and other governmental agencies), except for authorization for sponsored projects of November 28, 1983 and patent/technology activities of May 22, 1995:

Title

President, ULRF (Interim President, UofL)  
Vice President, ULRF (Provost and Chief Academic Officer, U of L)  
Vice President, ULRF (EVP for Research and Innovation, UofL)  
Vice President, ULRF (Chief Administration & Business Officer, UofL)  
Vice President, ULRF (Interim Chief Financial Officer, UofL)  
Controller/Treasurer, UofL  
Director of Purchasing, UofL  
Asst. Vice President for Research and Innovation, UofL  
Asst. Vice President for Financial Affairs, UofL

**BE IT FURTHER RESOLVED** that the individuals holding the following positions in their capacity as officers of ULRF or employees of UofL acting as agents for the Research Foundation be and hereby are the only officers and agents of the Research Foundation empowered to endorse securities for sale or subscription, purchase or sell securities, and execute any documents incident to the management and administration of investments, such as documents to include but not be limited to purchase or sale authorizations or agreements, exchange agreements, participation agreements, stock or bond powers and proxies:

Title

President, ULRF (Interim President, UofL)  
Vice President, ULRF (Provost and Chief Academic Officer, U of L)  
Vice President, ULRF (EVP for Research and Innovation, UofL)  
Vice President, ULRF (Chief Administration & Business Officer, UofL)  
Vice President, ULRF (Interim Chief Financial Officer, UofL)  
Controller/Treasurer, UofL  
Director of Treasury Management, UofL

**BE IT FURTHER RESOLVED** that the individuals holding the following positions in their capacity as officers of ULRF or employees of UofL acting as agents for the Research Foundation be and hereby are the only officers and agents of the Research Foundation empowered to enter into and execute service agreements and provider and reimbursement related contracts for clinical activities and professional health care services:

Title


President, ULRF (Interim President, UofL)  
Vice President, ULRF (Provost and Chief Academic Officer, U of L)  
Vice President, ULRF (EVP for Research and Innovation, UofL)  
Vice President, ULRF (Chief Administration & Business Officer, UofL)  
Vice President, ULRF (Interim Chief Financial Officer, UofL)

**BE IT FURTHER RESOLVED** that this resolution, effective March 27, 2017, shall and does supersede any and all previous resolutions authorizing such signatures for the University of Louisville Research Foundation, Inc.

Certificate

I certify that I am the duly qualified Assistant Secretary of the Board of Directors of the University of Louisville Research Foundation, Inc., that the foregoing is a true copy of a resolution adopted at the regular meeting of such Board which was duly held on the 27th day of March, 2017, at which meeting a quorum was present, and a majority of members present voted in favor of the adoption of such resolution. I further certify that such resolution is still in full force and effect.

Dated this 27th day of March, 2017.

  
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Assistant Secretary  
Board of Directors  
University of Louisville Research  
Foundation, Inc.