RESOLUTION GRANTING THE AUTHORITY TO EXECUTE CONTRACTS AND OTHER LEGAL DOCUMENTS TO CERTAIN OFFICERS OF DUKE UNIVERSITY

WHEREAS, Duke University (the "University") is a private, nonprofit North Carolina corporation dedicated to education, research, and health care located primarily in Durham, North Carolina; and

WHEREAS, the operations of the University require that various legal and other agreements and documents must be executed by certain officers of the University with requisite authority granted by the governing board of the University which is the Board of Trustees of the University; and

WHEREAS, the Board of Trustees of the University, through its Executive Committee, does hereby grant the required authority described herein;

NOW THEREFORE, BE IT RESOLVED, that the following officers of the University, or any one of them, are authorized and empowered to execute on behalf of Duke University contracts, agreements, notes, deeds and bills of sale and other documents of transfer, certificates, licenses, applications for grants, and such other instruments or documents as may be deemed necessary and proper and incident to the operation and management of the University including without limitation legal documents between Duke University and The Navy, The Air Force, The Army, The National Institutes of Health, The National Science Foundation, or any other agency of the United States Government, or of the State of North Carolina, foundations, corporations, or any other entity or person:

- the Vice Provost for Research; the Senior Vice Chancellor for Academic Affairs; one or more Vice Presidents and Associate Vice Presidents; one or more Vice Chancellors; the Executive Vice Provost for Finance and Administration;

- the Executive Vice Dean for Administration of the Duke University School of Medicine; the Executive Director of the Office of Research Administration in the Duke University School of Medicine; the Associate Dean for Clinical Research and Associate Director, Research Operations for the Duke Office of Clinical Research;

- the Director of the Office of Research Support;

- the Executive Director of the Office of Research Contracts;

- the Assistant Vice President and Chief Research Costing Compliance Officer;

- the Director of the Office of Sponsored Programs;

- the Senior Director of Treasury Billing Services, Receivables, and Card Services;
• the Executive Director of the Office of Licensing and Ventures;
• the Associate Vice President and Deputy Treasurer;
• the University Librarian and Vice Provost for Library Affairs;
• the Director of the Duke University Press;
• the Director of the Office of Export Controls;
• the Associate Vice President, Assistant Vice Presidents, Directors, Associate Directors, Senior Sourcing Managers, and Sourcing Managers, Procurement; and

BE IT FURTHER RESOLVED, that each of the officers named above may delegate the authority granted to them and certify as to that delegation of authority and the incumbency of the person to whom the authority is delegated and attest to the same with his or her signature, provided that in all events said delegation of authority shall be made in writing; and

FURTHER RESOLVED, that the Vice President and University Secretary or one or more Assistant Secretaries of the University are authorized and directed to certify as to the incumbency of the persons holding the offices named above and attach the corporate seal thereto and attest to the same with his or her signature; and

FURTHER RESOLVED that this resolution supersedes without limiting any prior resolutions and amendments thereto regarding the granting of authority to the officers set forth herein; and

FURTHER RESOLVED that the appropriate officers of the University are hereby authorized and directed to take such further actions as they shall deem necessary and appropriate, and as may be required, to fully implement these resolutions; and

FURTHER RESOLVED, that any action which has heretofore been taken by any of the officers of the University in connection with the foregoing resolutions or the matters contemplated thereby is hereby ratified, approved and confirmed.

Approved by the Executive Committee of the Board of Trustees on August 25, 2017.

Signed: [Signature]
Richard V. Riddell
Vice President and University Secretary

cc:  L. Carin  
     K. Cavanaugh  
     G. Foltz  
     S. Gibson  
     K. Hurka-Owen  
     J. Luther  
     N. Martinez-Wayman  
     R. McCaughan  
     J. Michnowicz  
     V. Nevois  
     J. Pleasants  
     R. Rasor  
     J. Roberts  
     M. Stacy  
     T. Trask III  
     T. Walsh