EXTRACT FROM THE RECORDS OF
UNIVERSITY OF MASSACHUSETTS

Granting Authority to Execute Contracts and All Other Instruments

I. Zunilka Barrett, Secretary of the Board of Trustees of the University of Massachusetts, do hereby certify that the following is a true and complete copy of a vote duly adopted by the Board of Trustees of the University of Massachusetts at a meeting duly called and held on the fifth day of February, nineteen hundred and ninety-seven at the University of Massachusetts, Chancellor’s Conference Room, Boston, Massachusetts:

“Further, to affirm that, except as to matters governed by the University of Massachusetts Intellectual Property Policy (Doc. T96-040), the Treasurer of the University of Massachusetts or his designee shall be the sole contracting officer of the University with the Authority to execute all contract, grants, restricted gifts (excluding endowments), and amendments thereto for sponsored programs in instruction, research, or public service, unless and until otherwise voted by the Board of Trustees.”

I further certify that the Senior Vice President for Administration & Finance and Treasurer of the University, Lisa A. Calise, has retained the right to remain the sole contracting officer of the University of Massachusetts, but in her absence, she has designated Theresa A. O’Neil, Associate Treasurer.

I further certify that effective July 17, 2017, the following is a list of designated individuals authorized in accordance with the afore referenced votes to review and execute all grants and contracts for sponsored programs in instruction, research and public service that are applicable to and received on behalf of the University of Massachusetts for their respective campuses.

Amherst Campus
Kumble R. Subbaswamy, Chancellor, Amherst Campus, Amherst, Massachusetts,
Robert S. Feldman, Deputy Chancellor, Amherst Campus, Amherst, Massachusetts,
Michael Malone, Vice Chancellor, Amherst Campus, Amherst, Massachusetts,
Carol P. Sprague, Director of the Office of Grants and Contracts Administration, Amherst Campus, Amherst, Massachusetts,
Jennifer A. Donais, Director of Research Compliance, Amherst Campus, Amherst, Massachusetts,
Theresa W. Girardi, Assistant Director, Amherst Campus, Amherst, Massachusetts,
Nancy E. Stewart, Assistant Director, Amherst Campus, Amherst, Massachusetts,
James B. Ayres, Assistant Director, Amherst Campus, Amherst, Massachusetts,
Laura J. Howard, Associate Director, Division of Continuing Education, Amherst Campus, Amherst, Massachusetts

Boston Campus
Barry Mills, Interim Chancellor, Boston Campus, Boston, Massachusetts,
Kathleen Kirleis, Vice Chancellor for Administration and Finance, Boston Campus, Boston, Massachusetts,
Emily McDermott, Interim Provost & Vice Chancellor for Academic Affairs, Boston Campus, Boston, Massachusetts,
Bala Sundaram, Vice Provost for Research and Strategic Initiatives and Dean of Graduate Studies, Boston Campus, Boston, Massachusetts,
Matthew L. Meyer, Associate Vice Provost for Research and Director of the Office of Research & Sponsored Programs, Boston Campus, Boston, Massachusetts,
Shala A. Bonyun, Assistant Director for the Office of Research and Sponsored Programs, Boston Campus, Boston, Massachusetts

Dartmouth Campus
Robert E. Johnson, Chancellor, Dartmouth Campus, Dartmouth, Massachusetts,
Mohammad A. Karim, Provost & Executive Vice Chancellor for Academic and Student Affairs & Chief Operating Officer, Dartmouth Campus, Dartmouth, Massachusetts,
James Sheehan, Vice Chancellor of Administration and Finance & Chief Financial Officer, Dartmouth Campus, Dartmouth, Massachusetts,
Mary Louise Nunes, Associate Vice Chancellor for Financial Services, Administration & Finance, Dartmouth Campus, Dartmouth, Massachusetts,
Tesfay Meressi, Interim Vice Chancellor for Research & Economic Development, Dartmouth Campus, Dartmouth, Massachusetts,
Elena Glatman, Director of Research Administration, Dartmouth Campus, Dartmouth, Massachusetts,
Michelle M. Plaud, Manager of Pre and Post Award Administration, Dartmouth Campus, Dartmouth, Massachusetts,
Deborah Dolan, Pre-Award and Subrecipient Manager, Dartmouth Campus, Dartmouth Massachusetts

Lowell Campus
Jacqueline F. Moloney, Chancellor, Lowell Campus, Lowell, Massachusetts,
Joanne Yestramski, Senior Vice Chancellor for Finance, Operations and Strategic Planning, Lowell Campus, Lowell, Massachusetts,
Michael Vayda, Provost, Lowell Campus, Lowell, Massachusetts,
Steven O’Riordan, Associate Vice Chancellor for Financial Services, Lowell Campus, Lowell, Massachusetts,
Susan Puryear, Director, Office of Research Administration, Lowell Campus, Lowell, Massachusetts,
Julie Chen, Vice Chancellor for Research & Innovation, Lowell Campus, Lowell, Massachusetts,
Anne Maglia, Associate Vice Chancellor, Research Administration, Lowell Campus, Lowell, Massachusetts,

President’s Office
Lynn Grieseemer, Associate Vice President for Economic Development and Executive Director for the Donahue Institute, President’s Office, Boston, Massachusetts,
Eric Heller, Deputy Director for the Donahue Institute, President’s Office, Boston, Massachusetts,

Worcester
Michael F. Collins, MD, Chancellor, University of Massachusetts Medical School, Worcester, Massachusetts,
Joyce A. Murphy, Executive Vice Chancellor for Commonwealth Medicine, University of Massachusetts Medical School, Worcester, Massachusetts,
Brendan M. O’Leary, Executive Vice Chancellor Innovation & Business Development, University of Massachusetts Medical School, Worcester, Massachusetts, John C. Lindstedt, Executive Vice Chancellor for Administration & Finance, University of Massachusetts Medical School, Worcester, Massachusetts, Margaret J. Koziel, MD, Assistant Vice Provost for Clinical and Translational Research, University of Massachusetts Medical School, Worcester, Massachusetts, Janice Lagace, Associate Director Research Funding Services, University of Massachusetts Medical School, Worcester, Massachusetts, Diego R. Vazquez, Assistant Vice Provost for Research Funding Services, University of Massachusetts Medical School, Worcester, Massachusetts, Patti Onorato, Associate Vice Chancellor for Operations, Commonwealth Medicine, University of Massachusetts Medical School, Worcester, Massachusetts, Terence R. Flotte, M.D., Dean, School of Medicine, Provost and Executive Deputy Chancellor, University of Massachusetts Medical School, Worcester, Massachusetts,

I further certify that Lisa A. Calise, Theresa A. O’Neil, Kumble R. Subbaswamy, Robert S. Feldman, Michael Malone, Carol P. Sprague, Jennifer A. Donais, Theresa W. Girardi, Nancy E. Stewart, James B. Ayres, Laura J. Howard, Barry Mills, Kathleen Kirleis, Emily McDermott, Bala Sundaram, Matthew L. Meyer, Shala A. Bonyun, Robert E. Johnson, Mohammad A. Karim, James Sheehan, Mary Louise Nunes, Tesfay Meressi, Elena Glatman, Michelle M. Plaud, Deborah Dolan, Jacqueline F. Moloney, Joanne Yestramski, Steven O’Riordan, Julie Chen, Michael Vayda, Anne Maglia, Susan Puryear, Lynn Griesemer, Eric Heller, Michael F. Collins, MD, Joyce A. Murphy, Brendan M. O’Leary, John C. Lindstedt, Margaret J. Koziel, Janice Lagace, Diego R. Vazquez, Patti Onorato, and Terence R. Flotte are members of the University Administration with its principal office located at 333 South Street, Shrewsbury, County of Worcester, in the Commonwealth of Massachusetts

Date: October 24, 2017

Zuniika Barrett, Secretary to the Board of Trustees