

Michigan State University College of Human Medicine
Department of Obstetrics, Gynecology and Reproductive Biology and
The Reproductive and Developmental Sciences Program (RDSP) presents:

“Integration of Systems Biology with Tissues Engineering for Endometriosis Drug Development”

Monday, September 30, 2019
12:00 – 1:00 pm

Michigan State University
Grand Rapids Research Center
Room 1102

Video Conference
East Lansing Campus
1310 Anthony Hall



Linda G. Griffith, PhD

Dr. Griffith is the School of Engineering Teaching Innovation Professor of Biological and Mechanical Engineering and MacVicar Fellow at MIT, where she directs the Center for Gynepathology Research and the Human Physiome on a Chip Project. Dr. Griffith’s research is in the field of regenerative medicine and tissue engineering. Her laboratory, in collaboration with J. Upton and C. Vacanti, was the first to combine a degradable scaffold with donor cells to create tissue-engineered cartilage in the shape of a human ear. The 3D Printing Process she co-invented for creation of complex scaffolds has been commercialized for manufacture of FDA-approved scaffolds for bone regeneration. She is also a pioneer in devising ways to control nano-scale stimulation of cells by molecular cues, and in creation of 3D tissue models for drug development. A current focus is integration of tissue engineering with systems biology, with an emphasis on endometriosis and other women’s reproductive diseases. She is a member of the National Academy of Engineering and the recipient of a MacArthur Foundation Fellowship, the Popular Science Brilliant 10 Award, NSF Presidential Young Investigator Award, the MIT Class of 1960 Teaching Innovation Award, Radcliffe Fellow and several awards from professional societies. She has served as a member of the Advisory Councils for the National Institute for Dental and Craniofacial Research and the National Institute of Arthritis, Musculoskeletal and Skin Diseases at NIH, and currently serves on the Advisory Committee to the Director of NIH. As chair of the Undergraduate Curriculum Committee for Biological Engineering at MIT, she led development of the new Biological Engineering SB degree program, which was approved in 2005 as MIT’s first new undergraduate major in 39 years.



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