CELEBRATES

The Center for Microsystems for the Life Sciences

Founded by

Matthew R. Begley
Associate Professor, Department of Mechanical and Aerospace Engineering, Department of Materials Science and Engineering

James P. Landers
Professor of Chemistry, Associate Professor of Pathology
Associate Professor, Department of Mechanical and Aerospace Engineering

Marcel Utz
Associate Professor, Department of Mechanical and Aerospace Engineering

RECOGNIZED FOR

Collaborative research and revolutionary new technologies for miniaturized biochemical analysis and diagnostics, bridging researchers in the U.Va. School of Engineering and Applied Science and the College of Arts & Sciences

Founders of the U.Va. Center for Microsystems for the Life Sciences: (left to right) James P. Landers, Marcel Utz and Matthew R. Begley.
The Center for Microsystems for the Life Sciences

Founded by Matthew R. Begley, associate professor in the mechanical and aerospace engineering and the materials science and engineering departments; James P. Landers, professor of chemistry, associate professor of pathology and associate professor in the Department of Mechanical and Aerospace Engineering; and Marcel Utz, associate professor in the Department of Mechanical and Aerospace Engineering, this center facilitates interdisciplinary research conducted by faculty members committed to developing lab-on-a-chip technology.

U.Va. professors are developing inexpensive hand-held devices to perform clinical diagnostics, environmental monitoring and forensics. They are creating a disposable microchip into which a sample, like a drop of blood, is placed; 20 minutes later, molecular information is obtained that can be used for a wide variety of diagnoses, from cancer to genetics. In addition, this microchip could be used for the detection of disease biomarkers and environmental contaminants. The Center for Microsystems for the Life Sciences will facilitate collaborations among engineers, scientists and medical professionals to develop new approaches to biochemical analysis and diagnostics.

http://giotto.mae.virginia.edu/CMLS