

James Grotberg, MD, PhD, with the University of Michigan



New York City, New York Jan 26, 2022 ([IssueWire.com](https://www.issuewire.com)) - Dr. James Grothberg is a Professor in the Department of Biomedical Engineering and the Department of Surgery at the University of Michigan. A seasoned emergency physician, he is the founding Director of the University of Michigan NASA Bioscience and Engineering Institute.

He received his Doctor of Philosophy in Fluid Mechanics at Johns Hopkins University, and then completed his medical education at the University of Chicago.

Following his internship year, he joined the faculty at Northwestern University from 1981 to 1998, jointly appointed in the Department of Biomedical Engineering and the Department of Anesthesiology. During that period, he practiced emergency medicine in the Chicago and downstate Illinois regions. In 1998, he joined the University of Michigan.

Maintaining fellowship status, Dr. Grotberg is a Fellow of the American Physical Society's Division of Fluid Dynamics, a Fellow of the American Institute for Medical and Biological Engineering, an Inaugural Fellow of the Biomedical Engineering Society, and a Fellow of the American Society of Mechanical Engineers. The latter cited him as "the leading Biofluid Dynamicist in the United States and among the top two or three in the world."

Among his other roles, he is Associate Editor of *Annual Review of Fluid Mechanics* and *Biophysical Journal*, and a previous Associate Editor of *Physics of Fluids* and *Journal of Biomechanical Engineering*. He was the Kenan Distinguished Professor at Princeton University (2009) and maintained visiting appointments in the Department of Physics at Ecole Polytechnique, the Department of Applied Mathematics at Ecole Normale Supérieure de Cachan, and Université Paris-Est, Faculté de Médecine, in France.

An enthusiastic researcher, Dr. Grotberg's research focuses on biofluid dynamics and biotransport, primarily in the respiratory system. These include experimental and theoretical investigations of surfactant replacement therapy, aerosol delivery into the lung, microgravity ventilation, airway closure and reopening, flow-induced oscillations such as wheezing and its relation to flow limitation, obstructive sleep apnea, liquid ventilation, high-frequency ventilation, and implantable artificial lungs.

Together with colleagues, he has collaborated to develop "Lung-on-a-Chip" microfluidics technology for testing pulmonary cells in controlled mechanical and chemical challenges. His work has been funded by NIH, NSF, NASA, NATO, BSF (Israel-US), ANR (France), The Coulter Foundation, The Whitaker Foundation, and industry.

Learn More about Dr. James Grotberg:

Through his findatopdoc profile, <https://www.findatopdoc.com/doctor/995928-James-Grotberg-Emergency-Physician> or through the University of Michigan NASA Bioscience and Engineering Institute, <https://weilininstitute.med.umich.edu/members/james-b-grotberg-md-phd>

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