



McGowan Institute for Regenerative Medicine

A program of the University of Pittsburgh and UPMC

The McGowan Institute Welcomes Professor Stephen Badylak

Dr. Stephen Badylak, D.V.M., Ph.D., M.D. has been appointed as a Research Professor in the Department of Surgery and Director of a new Center for Pre-Clinical Tissue Engineering within the McGowan Institute.

In 1976, Dr. Badylak received his D.V.M. from Purdue University and he completed his M.S. in Clinical Pathology from Purdue University in 1978. Dr. Badylak also holds a Ph.D. in Anatomic Pathology from Purdue University (1981) and graduated with highest honors with a M.D. from Indiana University Medical School in 1985.

Prior to his post graduate training, Dr. Badylak practiced veterinary medicine at a mixed animal practice in Glenwood, Illinois and in Hobart, Indiana. Dr. Badylak began his academic career at Purdue University as an Assistant Research Scholar at the Hillenbrand Biomedical Engineering Center in 1983.



During his tenure at Purdue University, Dr. Badylak held a variety of positions including Postdoctoral Research Associate (1985), Associate Research Scholar (1988) and served as the Director of the Hillenbrand Biomedical Engineering Center from 1993-1998. Dr. Badylak held a dual appointment as an Associate Professor within the Department of Veterinary Physiology and Pharmacology and also served as the Head Team Physician for the Athletic Department for 16 years (1985-2001). Most recently, Dr. Badylak served as Senior Research Scientist within the Department of Biomedical Engineering at Purdue University and Adjunct Associate Professor of Pathology and Laboratory Medicine at the Indiana University School of Medicine.

Dr. Badylak holds over 40 U.S. patents, has authored more than 130 scientific publications and 6 book chapters, and has been a member of several scientific committees, including the Committee on the Use of Human Research Subjects and as a member of the Joint Faculty Committee of the Biomedical Engineering Graduate Degree Program. He has served as the Chair of the Purdue University Tissue Engineering Advisory Board and as chair of the Study Section for the Small Business Innovative Research (SBIR) at the National Institutes of Health (NIH). He presently serves as a member of the Surgery and Bioengineering Study Section at NIH. Dr. Badylak has either chaired or been a member of the Scientific Advisory Board to several major medical device companies including DePuy Inc. of Warsaw, IN, Cook Biotech of West Lafayette, IN, Genesis Orthopaedics of Cambridge, MA, Sentron Medical Ventures of Cincinnati, OH and ACell, Inc. of Jessup, MD. Dr. Badylak is now president of ACell, Inc.

Professionally, Dr. Badylak is a Fellow of the American Institute for Medical and Biological Engineering and is a charter member of the Tissue Engineering Society International. He is also a member of the Society for Biomaterials and the Regenerative Medicine and Stem Cell Biology Society. For his contributions to his field, he has been featured in several publications and has been the recipient of multiple awards, including most recently the Sigma Xi Scientific Society 2002 Research Award.

At the University of Pittsburgh, Dr. Badylak will be involved in both academic and research interests. His major research interests lie in:

- Tissue Engineering and Wound Healing
- Biomaterials and Biomaterial/Tissue interactions
- Vascular Biology
- Orthopaedic Biology and Prostheses
- Biomedical Engineering as it Relates to Device Development and Biomaterials

Currently, Dr. Badylak is research projects include:

- Extra-cellular matrix for the repair of orthopaedic soft tissues
- Development of an artificial lymph node
- Bioscaffold development for myocardial repair
- Mechanism of matrix scaffold remodeling in tissue engineered applications
- Development of a tissue engineered esophageal repair device
- Tissue engineered constructs for the repair of congenital defects

- Vascularization of tissue engineered 3-dimensional scaffolds
 - Immune response of mammals to xenogenic scaffolds
 - Development of a tissue engineered larynx
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The McGowan Institute also welcomes:

[Jörg Gerlach, M.D., Ph.D.](#)

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