AN INAUGURAL SYMPOSIUM SPONSORED BY ALBANY MEDICAL CENTER, RENSSELAER POLYTECHNIC INSTITUTE AND THE UNIVERSITY AT ALBANY

Building a New Cooperative Translational Medicine Research Paradigm in the Capital Region

April 24, 2013, 7 a.m. – 3:30 p.m.
Center for Biotechnology and Interdisciplinary Studies Auditorium
Rensselaer Polytechnic Institute Campus

AGENDA

7 a.m. – 8 a.m. BREAKFAST

8 a.m. – 8:15 a.m. WELCOME INTRODUCTION

8:15 a.m. – 9:15 a.m. KEYNOTE PRESENTATION ONE: “SYNTHETIC BIOLOGY”
Andrew D. Ellington, Ph.D.
University of Texas
Professor, Department of Chemistry & Biochemistry

9:15 a.m. – 9:30 a.m. BREAK – VISIT PROJECT POSTERS

9:30 a.m. – 10:30 a.m. REGENERATIVE MEDICINE PANEL DISCUSSION WITH RESEARCH AND INDUSTRY LEADERS
Jonathan S. Dordick, Ph.D.
Vice President of Research, Rensselaer Polytechnic Institute
Howard P. Isermann Professor, Department of Chemical and Biological Engineering

Register for the Symposium www.nycapresearchalliance.org/symposium/register
10:30 a.m. – NOON  NY CAP RESEARCH ALLIANCE AWARDED PROJECT

POSTER PRESENTATIONS

Dr. Agris  “Identify RNA Aptamers That Specifically Bind to AB1-42”

Dr. Albrecht  “Keratinocyte-Based Mechanisms of Neuropathic Pain: Development of an Invitro Organotypic Human Skin Culture System for Use in Translational Research”

Dr. Kotha  “Smart Bandages for Wound Healing”

Dr. Larsen  “Tensional Homeostasis-Dependent Control of Tissue Integrity”

Dr. Ledet  “Robust Implantable Sensor Technology for Musculoskeletal Medicine”

Dr. Lednev  “Alzheimer’s Disease Diagnostics Based on Raman Spectroscopy of Blood”

Dr. Tenniswood  “Developing Sentinel miRNAs to Differentiate Between Indolent and Aggressive Prostate Cancer”

Dr. Tessier  “Analysis of Novel Antibodies Specific for Toxic Aggregates of the Alzheimer’s Peptide”

Dr. Vincent  “Using Bio-Printing Technology to Generate a Perfused Microvasculature within a 3D Tissue Structure”

Dr. Welsh  “Control of Inflammation-associated Cancer by Vitamin D and CD14”

Noon – 1 p.m.  LUNCH

1 p.m. – 2 p.m.  KEYNOTE PRESENTATION TWO: “COGNITIVE IMPAIRMENTS AND DEMENTIA IN THE ELDERLY: CASE STUDIES FROM THE FOLIO ARCHIVES”

Donald L. Price, M.D.

The Johns Hopkins University
Professor, Departments of Pathology, Neurology and Neuroscience

2 p.m. – 3 p.m.  NEUROSCIENCE PANEL DISCUSSION WITH RESEARCHERS AND INDUSTRY LEADERS

James A. Dias, Ph.D.

Vice President for Research, University at Albany
Professor, Department of Biomedical Sciences

3 p.m. – 3:30 p.m.  CLOSING REMARKS

James A. Dias, Ph.D., Jonathan S. Dordick, Ph.D.,
Vince P. Verdile, M.D.
Vincent Verdile, M.D.
*Dean and Executive Vice President for Health Affairs, Albany Medical College*

Dr. Vincent Verdile is the dean of Albany Medical College and executive vice president for Health Affairs of Albany Medical Center, positions he has held since 2001. He is also a professor of Emergency Medicine in the Department of Emergency Medicine at the college.

As dean, Dr. Verdile oversees the operations of Albany Medical College, one of the nation’s oldest private medical schools. Under his leadership, the college has expanded its academic programs. Approximately 40 percent of the region’s practicing physicians are alumni of the College. He is responsible for four interdisciplinary biomedical research centers, which are bringing the latest medical treatments to patients, while advancing the knowledge of various diseases. With his direction, these research facilities have received more funding from the prestigious National Institutes of Health than any other university or college in northeastern New York. He also manages the college’s more than 300-member physician practice, one of the largest groups of multi-specialty physicians in the Northeast.

Before coming to Albany Medical Center in 1993, Dr. Verdile held a number of academic and clinical appointments at the University of Pittsburgh School of Medicine where he completed his residency training in emergency medicine. Dr. Verdile is the author of more than 60 academic publications and has served on several editorial boards. He has served on numerous state and national committees, and is a past president of the New York Chapter of the American College of Emergency Physicians. He currently serves on the board of directors for Union Graduate College, the University Heights Association and the Fort Orange Club.
Jonathan S. Dordick, Ph.D.
_Vice President for Research, Rensselaer Polytechnic Institute_

Jonathan S. Dordick is the vice president for research at Rensselaer Polytechnic Institute, where he is also the Howard P. Isermann Professor of Chemical and Biological Engineering. He has served as director of the Center for Biotechnology and Interdisciplinary Studies since 2008. In addition to his primary appointment in Chemical and Biological Engineering, Dordick holds joint appointments in the departments of Biomedical Engineering, Materials Science and Engineering, and Biology.

As a leading researcher, Dordick has published 300 peer-reviewed papers and has delivered over 200 invited lectures worldwide, including seminars at more than 70 universities. As an entrepreneur, Dordick has founded three companies providing products and services that impact industries as diverse as healthcare and energy, and has served on the scientific advisory boards of five others companies. Dordick is an elected fellow of the American Chemical Society, the American Association for the Advancement of Science, and the American Institute of Medical and Biological Engineers. He has received numerous awards, including the Marvin Johnson and Elmer Gaden awards of the American Chemical Society, the International Enzyme Engineering Award from the Engineering Foundation, and a Presidential Young Investigator Award from the National Science Foundation.

Dordick received his Ph.D. and M.S. degrees in biochemical engineering from the Massachusetts Institute of Technology, and his B.A. degree in biochemistry and chemistry from Brandeis University.

James A. Dias, Ph.D.
_Vice President for Research, University At Albany_

James Dias serves as Vice President for Research. His academic affiliation is with the Department of Biomedical Sciences in the School of Public Health, where he served as Chair. His previous work experience includes being a member of the Department of Biochemistry in the Albany Medical College from 1981-1988; a research scientist with the Wadsworth Center of the New York State Department of Health; scientific director of the Wadsworth Center’s scientific core facilities; and service on national trade journals, study sections and external advisory panels.

Professor Dias received his B.S degree in biology from the Gonzaga University and his M.S. and Ph.D. degrees in reproductive physiology, with the subspecialty of animal science, from Washington State University. He was the recipient of several NIH career development awards, including an individual National Research Service Award, a New Investigator Award and a Research Career Development Award (1985). He has published more than 100 research articles on the reproductive hormones which control high quality gametogenesis and has been funded by the National Institutes of Health for 20 years.
NY CAP RESEARCH ALLIANCE SYMPOSIUM KEYNOTE SPEAKERS

Andrew D. Ellington, Ph.D.
Kathryn M. Fraser Endowed Professor of Biochemistry University of Texas

He received his undergraduate degree in Biochemistry from Michigan State University, my graduate degree in Biochemistry and Molecular Biology from Harvard University (working with Dr. Steve Benner), and was a post-doctoral Fellow with Jack Szostak at Massachusetts General Hospital. He was an assistant faculty member at Indiana University in the Department of Chemistry until 1998, and has since been a full Professor in the Department of Chemistry and Biochemistry at the University of Texas at Austin.

Throughout his career, he has worked on the directed evolution of molecules and organisms, and has developed both insights into the origin of life and applications in biotechnology. His recent work on DNA nanotechnology and circuitry is particularly well-suited to this grant, and he currently leads the national organization devoted to these technologies, the International Society for Nanoscale Science, Computation and Engineering.

Donald Price, M.D.
Professor of Pathology, Neurology, and Nuerosciences, Director, Johns Hopkins ADRC, Director, Division of Neuropathology The Johns Hopkins School of Medicine

Donald L. Price, M.D., Professor of Pathology at the Johns Hopkins University School of Medicine, is a neurologist, neuropathologist, and a neurobiologist, who has made major contributions to the understanding of a variety of human neurodegenerative diseases, particularly Alzheimer's Disease, Parkinson's Disease and Amyotrophic Lateral Sclerosis. He has a distinguished record of publications in several fields, including the development and analysis of animal models—especially genetically engineered models of these disorders—and the investigation of experimental therapeutic strategies that prepare the way for translation of basic science discoveries to treatments of humans with neurological illnesses.

Dr. Price is the author of more than 500 publications. He has been recognized by the international scientific and medical communities, as illustrated by his ranking among the top ten neuroscientists as authors of high impact papers in neuroscience during the “Decade of the Brain,” Science Watch. Dr. Price has received numerous honors and awards, including: two Javits Neuroscience Investigator Merit Awards from the National Institute of Neurological Disorders and Stroke; a Leadership in Alzheimer's Disease Award from the National Institute on Aging; the Potamkin Prize for Alzheimer’s Disease Research from the American Academy of Neurology; and the Metropolitan Life Foundation Award. He is on the Board of Trustees of the Adler Foundation, was President of the Society for Neuroscience (2000-2001), and is a member of The Institute of Medicine (National Academy of Sciences).

He is currently Director of the Division of Neuropathology and Director of the Johns Hopkins Alzheimer's Disease Research Center. To obtain additional information about Dr. Price, please visit this website: John Hopkins Alzheimer’s Disease Research Center.