Remote Endarterectomy Device | Presented by Gregory Landry, M.D., Professor of Surgery, Division of Vascular Surgery, Knight Cardiovascular Institute

Dr. Greg Landry was a 2015 Biomedical Innovation Awardee for his development of a remote endarterectomy device with greater ease of use.

Currently, peripheral arterial disease affects 8-12 million Americans with a growing incidence due to the rise in diabetes, continued smoking, and an aging population. Surgeons use remote endarterectomy as a method of removing plaque from occluded arteries through an incision in the groin. The current remote endarterectomy device on the market has limited application due to its design. Working with biomedical engineers I plan to develop and test a prototype of a new remote endarterectomy device with greater ease of use.
Meet our Surgical Innovation Interns
Here to help take your idea to the next level

NILOY GHOSH, B.S.E., B.A.
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Niloy Ghosh graduated from Duke University in 2013 with a B.S.E. in Biomedical Engineering and a B.A. in Music (Concentration in Violin Performance). While his past research experience includes proteomics-centered approaches to mechanotransduction in the inner ear, early cataract formation, and Age-Related Macular Degeneration (AMD), his current research interests concern engineering applications to medicine, specifically in the context of surgical innovation. This summer marks Niloy’s return to research, after serving as a high school chemistry teacher for two years with Teach for America in Houston, Texas immediately following graduation. In the fall, he will be attending medical school. When he is not working or in lab, Niloy enjoys spending time with his family and friends, playing the violin, and engaging in a variety of sports, including basketball, swimming, and football.

YOUNES JAHANGIRI, M.D.
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Dr. Younes Jahangiri is from Tehran, Iran. In 2009 he graduated from Iran University of Medical Sciences in Tehran. He came to the United States in 2012 to pursue his graduate medical education and joined the Research Team at the Dotter Institute in 2014. Jahangiri has authored and co-authored numerous peer-reviewed papers and serves on the review board for several medical journals. While away from the hospital and research lab, Jahangiri enjoys spending time with his family, playing the violin, singing and playing volleyball.
Developing a Total Artificial Heart

On May 28th, the OHSU Knight Cardiovascular Institute introduced its new company, OregonHeart, at a special lecture and presentation led by Chief Scientific Officer and renowned inventor of the Hemopump, Dr. Richard Wampler. Dr. Wampler, along with other company representatives and OHSU faculty collaborators, provided an overview of this remarkable project aimed at developing a successful total artificial heart device to treat patients with end-stage heart failure. Pioneering OHSU cardiovascular surgeon Dr. Albert Starr shared OregonHeart’s vision and goals while Drs. Howard Song (Chief, OHSU Cardiothoracic Surgery) and Jim Mudd (OHSU Cardiovascular Medicine) explained the application of mechanical circulatory support in end-stage heart failure and the role of an artificial heart in therapy. KCVI Chief Operating Officer Clyde Taylor discussed business issues relevant to commercial development of the device.

Biomedical Innovation Program

Improving patient care and accelerating the delivery of healthcare technology from academia to the marketplace

Funding & Development
- BIP RFA - Seed grants for OHSU investigators
- SBIR/STTR Phase 0 - Pre-submission support
- DoD Funding - Evaluation for BIP awardees
- Industry collaboration through MedTech Alliance

Project Management
- Track progress
- Remove barriers
- Establish mentors and industry partnerships
- Drive next stage funding

Facilitate Commercialization

Innovation & Entrepreneur Education
- INVENT Seminar Series - Inspirational keynotes and didactic seminars open to OHSU and community members
- Publicize in-depth courses and workshops offered by regional partners (such as OBA and PSU)

Interdisciplinary Mentors & Reviewers
- Biomedical Innovation Program committee
- OHSU faculty and staff
- Regional and business partners
- Academic partnerships with the University of Oregon and Portland State University

For more information: www.ohsu.edu/octri/bip

OHSU Department of Surgery
April’s Innovation Advisory Committee Meeting

High Fidelity Inguinal Hernia Simulator

Jessica M. Scott, B.S., Shanley Deal, M.D., Mackenzie R. Cook, M.D., Alexis Moren, M.D., M.P.H., and Laszlo N. Kiraly, M.D. delivered an engaging presentation of their novel inguinal hernia model at our April Innovation Advisory Committee Meeting.

Upcoming Surgical Innovation Meetings and Events

September 9-10, 2015
Oregon Bioscience Association Annual Conference

October 2, 2015 | 12 - 1:15 PM
Innovation Advisory Committee Meeting

Fall 2015 (date TBD)
MedTech Alliance Bi-Annual Meeting

Did you miss the spring MedTech Alliance Event this May?
For a recap, visit ohsu.edu/blogs/researchnews/2015/05/28/recap-spring-2015-medtech-alliance-event/

Current Innovation Funding Opportunities through Edison Nation Medical

Learn more at https://edisonnationmedical.com/current-innovation-searches/

Please funnel all submissions through our Senior Technology Development Manager, Dr. Michele Gunness (gunnessm@ohsu.edu). She will submit applications on behalf of OHSU.