

Professional Development and Research Training Program

The Department of Surgery Professional Development and Research Training Program includes attainment of an advanced degree through The Ohio State University College of Medicine Master of Medical Science Program (MMSP). The MMSP is designed to provide flexible, advanced-degree training for physicians interested in pursuing careers in academic medicine. Training is achieved through a core curriculum, electives individualized for the student's career path, and a mentored research project. Curricular tracks are available that support basic/translational science, clinical science, health services and education science.

Core Curriculum

- Research Design and Methods
- Research Ethics
- Science Communication and Grant Writing
- Statistical Analysis
- Signature Program Translational Science Series
- Elective Examples
 - Career Development for Surgeons
 - Business Practice for Surgeons
 - Biomedical Informatics
 - Pharmacogenomics
 - Health Policy and Delivery
 - Survey Design
 - Health Services Research

Recipients of Master of Science degree while in the Surgery Residency Program at Ohio State



Clifford Akateh, MD
Immunotherapeutics – 2019



Rita Shelby, MD
Immunotherapeutics – 2019



Kevin Ricci, MD
Clinical Outcomes, Surgical
Critical Care - 2019



Jason Zakko, MD
Tissue Engineering – 2019



Joseph Drews, MD
Tissue Engineering – 2018



David Koller, MD
Cancer Biology – 2018



Eliza Beal, MD
Immunotherapeutics – 2017



Ekene Onwuka, MD
Immunotherapeutics – 2016



Christopher McQuinn, MD
Immunotherapeutics – 2017

Department of Surgery residency alumni who completed a Master of Science degree

Nakesha King, MD

Tissue Engineering – 2017

Taehwan Yoo, MD

Immunotherapeutics – 2017

Shaylyn Bennett, MD

Heart Failure Physiology – 2017

David Strosberg, MD

Surgical Education and
Coagulation/Hemostasis – 2017

Shayna Brathwaite, MD

Cancer Biology – 2016

Daniel Lodwick, MD

Clinical Outcomes in Pediatric
Surgery – 2016

Nicholas Latchana, MD

Cancer Biology – 2015

Sara Mansfield, MD

Immunology – 2015

Terrence Rager, MD

Tissue Engineering – 2015

Kara Rossfeld, MD

Cancer Biology – 2015

Joseph Drosdeck, MD

Clinical Outcomes, MIS – 2014

Justin Huntington, MD

Cancer Biology – 2014

Robert Plews, MD

Cancer Biology – 2014

Rachael Sullivan, MD

Cancer Biology – 2014

Sylvester Osayi, MD

Clinical Outcomes,
MIS/Endoscopy – 2014

Sara Martin del Campo, MD

Cancer Biology – 2013

Mika Matthews, MD

Intestinal Inflammation – 2013

Tyler Spata, MD

Cardiac Pathophysiology – 2013

Mark Wendling, MD

Clinical Outcomes, MIS – 2013

Jon Henry, MD

Cancer Biology – 2012

Eric Luedke, MD

Cancer Biology – 2012

Laura Peterson, MD

Vascular Biology – 2012

Jon Wisler, MD

Inflammation/Critical Care – 2012

Amy Collins, MD

Cancer Biology – 2011

Michelle Kincaid, MD

CMV Virology – 2011

Maureen Kuhrt, MD

Cancer Biology – 2011

Thomas Pham, MD

Transplant Immunology – 2011

Ricardo Quarrie, MD

Cardiac Pathophysiology – 2011

Iyore James, MD

Intestinal Inflammation – 2010

Peter Nau, MD

Clinical Outcomes, MIS/NOTES – 2010

Alicia Thomas, MD

CMV Virology – 2010

Mary Dillhoff, MD

Cancer Biology – 2009

Kristan Guenterberg, MD

Tumor Immunology – 2009

Meghan Forster, MD

CMV Virology – 2008

Irina Shakhnovich, MD

Vascular Biology – 2008

Natalie Jones, MD

Tumor Immunology – 2007

Mason Fisher, MD

Liver/Pancreas Immunobiology – 2007

Lloyd Brown, MD

Tumor Immunology – 2006

Paul Beery, MD

Clinical Outcomes,
Surgical Critical Care – 2005

Michael Go, MD

Tumor Immunology – 2005

Ergun Kocak, MD

Tumor Immunology – 2005

William Wallace, MD

Wound Healing – 2003



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For more information about the research requirements in the Ohio State Department of Surgery and MMS degree, please contact:



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Recipients of other master degrees while in the Surgery Residency Program at Ohio State



Chelsea Horwood, MD

Surgical Quality and Safety, Master of Public Health – 2018

Michelle Nguyen, MD

Surgical Quality and Safety, Master of Public Health – 2016

Alistair Kent, MD

Clinical Outcomes,
Master of Public Health – 2012
George Washington University

Ioannis Hatzaras, MD

Clinical Outcomes,
Master of Public Health – 2009



Melissa Hornor, MD

Health Services and Outcomes,
Master of Science – 2018
Northwestern University

Lisa Haubert, MD

Surgical Education,
Master of Anatomy – 2009

Margaret Sawyer, MD

Analysis of Professional Billing Practices
in Surgery, Master of Business Administration
– 2007

Vance Smith, MD

Models for Faculty Reimbursement at AMCs,
Master of Business Administration – 2007



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