



April 2023 Research Newsletter

The Cutting Edge

Greetings, and welcome to the inaugural issue of the LSUHSC Department of Surgery's monthly Research Newsletter! The goal of this missive will be to highlight resources, accomplishments, and updates that should be helpful for anyone looking to do science in our department. As this is a new endeavor, please don't hesitate to give us feedback on it!



As anyone who's ever tried to do research will tell you, it's hard. Really, really hard. There's lots of paperwork. Sometimes results don't turn out as you hoped. Maybe your research assistant breaks their hand and can't run assays for 12 weeks. I myself just got a critique from a journal reviewer last week that made me feel like an orangutan and someone in a lab coat was trying to teach me three dimensional chess. I just wanted to flip the table over.

But then there's those other times. The results come back showing what started off as a curiosity strong enough to drive you to sit down and decide "I'm going to study this" pays off and the question gets answered. The grant application gets funded, providing social proof that your idea has merit. Results build on each other like bricks in a wall, serving as a platform

for others to climb on their own journeys of discovery. Man, that's the good stuff. Check back in this space every month to see what Dr. Nfonsam and I are doing to help enhance the latter!

-Herbert Phelan

Save the Date!

May 4, 2023

1st Annual

Research

Symposium

Keynote Speaker:

Timothy Pawlik, MD, PhD



Do patient care and in your career you'll impact the lives of 2,000 people. Invent a device, and you'll impact the lives of 200,000. Do high quality research, and you'll impact 2,000,000. - James Carrico, MD



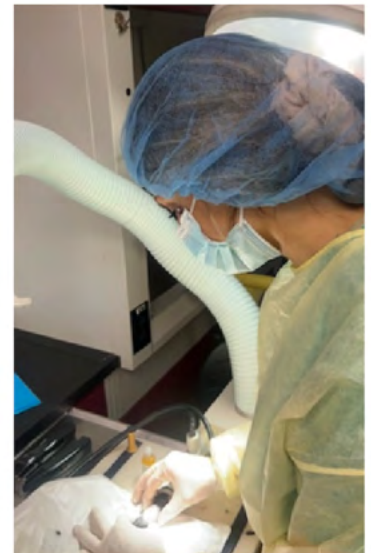
RESEARCHER HIGHLIGHT

PAIGE DEVILLE, MD, PGY3



Dr. Deville is from Baton Rouge, LA, and attended LSU for undergrad, medical school, and surgery residency. Her older brother encouraged her to pursue surgery after calling her a surgeon during a rotation. She found surgery to be the perfect combination of academics and creativity, which captivated her unexpectedly. Dr. Deville's decision to take a research year was due to a gut feeling in conjunction with the opportunities created by Dr. Smith, Dr. Phelan, and Dr. Carter.

Dr. Deville has been involved with many research projects this year, including analyzing clinical data sets, testing a product for non-healing wounds, assisting with the design and implementation of a multicenter study, and working in a lab on wound healing in mice. Dr. Deville says that her most impactful contribution to surgical research is understanding that even using the most minimally invasive techniques, making a cut and creating a wound is intrinsic to the nature of operating. It is important to understand the process of wound healing and the way a patient's social and demographic factors can affect this cascade in order to anticipate, prevent, or treat wound complications.



When not collecting data or seeing patients, Dr. Deville is preparing for conferences. Of the 5 conferences she has presented at, her most decorated presentations are:

- Western Trauma Association (WTA) Annual meeting - Alberta, Canada (Mar 6, 2023)
 - *A Multi-Center Study of Perioperative Hepatic Angioembolization as an Adjunct for Management of major Operative Hepatic Trauma*
 - **This was the first time an LSUH-NO Resident presented at WTA**
- Louisiana Chapter of the American College of Surgeons (LA-ACS) - New Orleans, LA (Mar 25, 2023)
 - *Supporting cardiac perfusion with partial resuscitative endovascular balloon occlusion of the aorta PRO: Reduced visceral ischemia during extended occlusion*
 - **Won the award for Best ePoster in Kiosk 1**

CONFERENCES AND EVENTS

February and March were active months for the DOS, as numerous Faculty, Residents, and Students gave innovative presentations at various conferences.



Southeastern Surgical Congress

Acute kidney injury in hypotensive trauma patients following resuscitative endovascular balloon occlusion of the aorta placement; I Hunt, L Gold, J Hunt, L Stuke, J Schoen, P Greiffenstein, A Marr, A Smith

Cohn-Rives Lectureship

Marijuana Use, Synthetic Cannabinoids and Cathinones: Their Potential Impact on Surgical Outcomes
John Morrison, MD, FACS

Development of Novel Oncolytic Virus to Optimize Immuno-Oncology Approaches for Pancreatic Cancer
Omeed Moaven, MD

Stem Cells as a Therapeutic Strategy for the Critically Ill and Injured Patient
Alison A. Smith, MD, PhD

Western Trauma Association

A Multi-Center Study of Perioperative Hepatic Angioembolization as an Adjunct for Management of major Operative Hepatic Trauma
Paige Deville, MD

Louisiana Chapter of the American College of Surgeons

**Single cell rna sequencing analysis in murine biliary atresia model reveals subpopulation of biliary epithelial cells with pro inflammatory and fibrogenic traits, Celia A Short MD*

**Winner of the Best Paper*

***An Algorithm to Prevent Missed Bowel Injuries in Blunt and Penetrating Abdominal Trauma Patients, Logan Gold, BS*

***Winner of the Best Med Student Presentation*



LSU HEALTH
DEPARTMENT OF SURGERY

1ST ANNUAL
RESEARCH
SYMPOSIUM 2023

KEYNOTE SPEAKER

**TIMOTHY M. PAWLIK, MD, PHD, MPH,
MTS, MBA, FACS, FSSO, FRACS (HON.)**

PROFESSOR OF SURGERY, ONCOLOGY
CHAIR, DEPARTMENT OF SURGERY
SURGEON-IN-CHIEF
THE OHIO STATE UNIVERSITY WEXNER
MEDICAL CENTER



**HUMAN DEVELOPMENT
CENTER AUDITORIUM**

MAY 4, 2023

7AM – 12PM

**CALL FOR ABSTRACTS TBD*

DATABASES AND STATISTICIANS

High-quality data and statistical methods are crucial in research. The DOS aims to ensure the highest accuracy and validity of findings in the work that we do. To support the efforts of the DOS, we've invested in several surgical databases to allow for greater availability of information when conducting analyses. More importantly, the DOS has partnered with statisticians in the School of Public Health to aid with analyses. Please welcome Assistant Professors Claudia Leonardi, PhD, and Denise Danos, PhD, to our research efforts!



Dr. Leonardi is a biostatistician with more than 15 years of research experience. She consulted and collaborated on numerous projects in the basic, clinical and population sciences, and has acquired extensive experience in a variety of statistical areas including multilevel analysis, mixed model, logistic regression, survival analysis and other statistical techniques. Dr. Leonardi can be reached at cleon1@lsuhsc.edu.



Dr. Danos has experience in both academic and government sectors, focuses on experimental design and data analysis in observational human subjects' research, and has expertise in large scale data collection and consolidation, generalized linear models, and multilevel models. She has used contemporary population-based data sources and applied statistical methodology to further the understanding of area-based social disparities. Dr. Danos can be reached at ddanos@lsuhsc.edu.

Drs. Leonardi and Danos are available for a variety of needs related to study design and statistics. Planning the variables to collect, processes for data collection, and methods of statistical analyses are just a few of the efforts they will provide. Dr. Danos will act as the contact person for the surgical databases. Stayed tuned for more information about how to request data for your upcoming projects, as well as how to schedule meetings to get their expertise.

FUNDING AWARDS



Congratulations to Dr. Vazquez-Perez on her recent Resident Research Opportunity Award! Dr. Vazquez-Perez has been awarded funds to study the role of Micro-RNA's in Surgical Excision of Breast Cancer.





Logan Gold, MS3



Hannah Leblanc, MS3



Anne Faulk, MS3



Julia Power, MS3

Academic Surgical Congress (Houston, TX, Feb 7 - 9)

Congratulations to MS3 students Logan Gold, Hannah Leblanc, Anne Faulk, and Julia Power, along with their mentor Dr. Jessica Zagory, on their successful oral presentations (Presenter underlined).

1. Long-term implications of tracheostomy creation among pediatric and adolescent trauma patients. Logan Gold, Hannah Leblanc, Rebecca Moreci MD, Lindsay Elliott DO, Jessica Zagory MD.
2. Behavioral sequelae among pediatric trauma patients after discharge from inpatient rehabilitation. Hannah Leblanc, Logan Gold, Rebecca Moreci MD, Lindsay Elliott DO, Jessica Zagory MD.
3. Quality of life improves with definitive surgery in severe hidradenitis suppurativa among adolescents. Anne Faulk, Julia Power, India Hill MD, Jessica Zagory MD.
4. Staged surgical excision and skin graft for severe hidradenitis suppurativa in adolescents. Julia Power, Anne Faulk, India Hill MD, Nicole Kopari MD, Jessica Zagory MD



Jeanette Zavala, MD

Louisiana Chapter of the American College of Surgeons in (New Orleans, LA, Mar 24 - 26)

*Striking a Work Life Balance: A Survey of Surgeon Satisfaction with Juggling Careers and Family, Jeanette Zavala

***Winner of Best ePoster in Kiosk 2**

UPCOMING CONFERENCES

Organization	Dates	Location
<u>Association of Program Directors for Surgery</u>	04/11/23 - 04/15/23	San Diego, CA
<u>Surgical Infection Society</u>	04/11/23 - 04/14/23	West Lake Village, CA
<u>Association for Surgical Education</u>	04/13/23 - 04/15/23	Bayfront, CA
<u>American Association for Cancer Research</u>	04/14/23 - 04/19/23	Orlando, FL
<u>Southwestern Surgical Congress</u>	04/16/23 - 04/19/23	Ojai Valley, CA
<u>American Surgical Association</u>	4/20/23 - 04/22/23	Toronto, Canada
<u>American Association of Neurological Surgeons</u>	04/21/23 - 04/24/23	Los Angeles, CA
<u>American Society of Breast Surgeons</u>	04/26/23 - 04/30/23	Boston, MA
<u>Chest Wall Injury Summit</u>	04/27/23 - 04/27/23	Charlotte, NC
<u>American Association of Plastic Surgeons</u>	04/29/23 - 05/02/23	Chicago, IL
<u>American Association of Endocrine Surgeons</u>	04/29/23 - 05/01/23	Birmingham, AL

Regularly check the [DOS Clinical Research Resources Calendar](#) for all the latest Conference Schedules.

UPCOMING ABSTRACT DEADLINES

Organization	Deadline
<u>Pediatric Trauma Society</u>	05/01/23
<u>Congress of Neurological Surgeons</u>	05/02/23
<u>Society of Asian Academic Surgeons</u>	05/24/23
<u>Extracorporeal Life Support Organization</u>	06/01/23
<u>American Pancreatic Association</u>	07/01/23



Regularly check the [DOS Clinical Research Resources Calendar](#) for all the latest Abstract Deadlines.

FUNDING OPPORTUNITIES

National Institute of Health - National Institute on Alcohol Abuse and Alcoholism

Biomedical Alcohol Research Training Program (NIAAA T32)

Due Date: N/A

Amount: Variable

The goal of the program is to provide mentorship and focused training so that young MD and PhD scientists can become familiar with the biomedical problems related to excessive alcohol consumption and acquire the tools to perform high quality, competitive research. For more information, [click here](#).

American College of Surgeons

Resident Research Scholarship

Due Date: N/A

Amount: \$30k/yr. for 2-years

The applicant must be a Resident Member of the ACS, who has completed at least 2 postdoctoral years in an accredited surgical training program (any specialty) in the United States or Canada at the time the scholarship starts (July of the award year). Scholarships do not support research after completion of the chief residency year. For more information, [click here](#).

Regularly check the (coming soon) [DOS Clinical Research Resources Funding Opportunities List](#) for all the latest Funding Opportunities.

FUNDING OPPORTUNITIES

Society of Surgical Oncology

Clinical Investigator Award

Due Date: N/A

Amount: \$50k per year for 2-years (\$100k total)

The Clinical Investigator Award promotes patient-focused research conducted by surgical oncologists in clinical and translational science. Please contact Pam Hayden, Assistant Director, Quality and Research Programs, with any questions at pamhayden@surgonc.org.

Young Investigator Award

Due Date: N/A

Amount: up to \$25k for 1-year

The Young Investigator Award promotes and recognizes clinical and translational research that advances innovative ideas and concepts designed to improve health outcomes through advances in the delivery of cancer-related care. Please contact Pam Hayden, Assistant Director, Quality and Research Programs, with any questions at pamhayden@surgonc.org.

Regularly check the (coming soon) [DOS Clinical Research Resources Funding Opportunities List](#) for all the latest Funding Opportunities.

FUNDING OPPORTUNITIES

Eastern Association for the Surgery of Trauma

The EAST Multicenter Trial Junior Investigator Award

Due Date: 05/12/23

Amount: \$10k for 1-year

The EAST Multicenter Trial Junior Investigator Award is to assist a junior primary investigator to successfully conduct and publish a multicenter trial assembling data from five or more centers which seeks to answer an important and novel question in the practice of trauma, acute care surgery or surgical critical care which will change or significantly affect the care of injured or critically ill patients.

John M. Templeton, Jr., MD Injury Prevention Research Scholarship

Due Date: 05/12/23

Amount: \$10k for 1-year

The intent of the John M. Templeton, Jr., MD Injury Prevention Research Scholarship is an interventional trial in the field of injury prevention. Find all rules and regulations [here](#).

Trauma Research Scholarship

Due Date: 05/12/23

Amount: \$40k for 1-year

The intent of the Trauma Research Scholarship is basic or applied trauma related research project of sufficient substance to have potential for further funding sources as initial studies are produced and published (e.g. basic science, clinical, epidemiology, injury prevention, burns). Find all rules and regulations [here](#).

Regularly check the (coming soon) [DOS Clinical Research Resources Funding Opportunities List](#) for all the latest Funding Opportunities.

LSU Health Care Services Division (HCSD) Healthcare Effectiveness and Medical Informatics Teams

If you're looking for help with data management, look to the [LSU Health Care Services Division \(HCSD\) Healthcare Effectiveness and Medical Informatics Teams](#) for assistance. They specialize in designing and managing data systems for measurement and research analytics and reporting, and tools for aggregating and analyzing clinical data from electronic health records (EHRs) to inform expert-defined research questions and interventions. HCSD currently has direct access to the data captured in the EHRs at most locations where LSUHSC providers deliver care. HCSD builds customized applications, measurement systems, and clinical decision support tools to evaluate the impact of process and outcome interventions, or to present actionable information to information users.

Grant Review Service for Extramural Proposals

For assistance with grant writing or reviewing grant proposals, the [Grant Review Service for Extramural Proposals](#) is a great resource. The purpose of this service is to provide pre-review of grant proposals prior to their submission to extramural funding agencies. This service will be provided by several of our faculty who have grant writing and reviewing experience. This service is available not only for completed draft proposals, but can be used for proposals that are in the early stages. The reviewers can evaluate Specific Aims pages for you, prior to embarking on writing the complete proposal. The proposal can also be used for grants that are under revision.

Check out the [School of Medicine Research Home Page](#) for many resources available for various research activities.