**Surgery Research Growth and Engagement Newsletter** 

Issue 9 (Fall 2023)



## CONGRATULATIONS ON YOUR AWARDS!

**Taylor Brown** (mentor: **Bin Jiang**): Outstanding TA Award, Department of Biomedical Engineering **Mariana Bustamente Eduardo** (mentor: **Susan Clare**):

AACR-Pfizer Breast Cancer Fellowship

Booker Davis (mentor: Steve Schwulst): NIH Loan Re-

payment Program

Atieh Hajirahimkhan (mentor: Seema Khan): Women's

Health Research Achievement Award, Lewis Landsberg Research Day

Lauren Janczewski (mentor: Laurie Kistein): First place winner, Commission on Cancer

Resident Paper Competition, Clinical Research Category

Shelbie Kirkendoll (mentor: Anne Stey): NIH Loan Repayment Program Award from The Eunice

Kennedy Shriver Institute of Child Health and Human Development

Steven Papastefan (mentor: Aimen Shaaban): American College of Surgeons Owen H. Wangen-

steen Excellence in Research Award



## **GOOD LUCK ON YOUR GRANT APPLICATIONS!!**

**Raheem Bell** (mentor: Dave Odell): Thoracic Surgery Foundation Resident Research Fellowship, Surgical Oncology T32 and R38

Taylor Brown (mentor: Bin Jiang): American Heart Association Predoctoral Fellowship

Atieh Hajirahimkhan (mentor: Seema Khan): Prevent Cancer Foundation Grant

**Dan Liesman** (mentor: **Aimen Shaaban**): American College of Surgeons Resident Research Scholarship **Lara Lopes** (mentor: **Karen Ho**): American College of Surgeons Resident Research Scholarship, Association of Academic Surgeons Resident Research Award, American Heart Association Postdoctoral Fellowship

Sarbjeet Niraula (mentor: Karen Ho): American Heart Association Postdoctoral Fellowship

Saieesh Rao (mentor: Anne Stey): American College of Surgeons Resident Research Scholarship, Associa-

tion of Academic Surgeons Resident Research Award

Maggie Reilly (mentor: Neel Mansukhani): Shaw

Family Pioneer Award, (mentor: Yue-Yung Hu and

Dawn Coleman): Association of Academic Sur-

geons Resident Research Award

John Rode (mentor: Justin Ryder): Surgical On-

cology T32 and R38

Joe Sanchez (mentor: Anne Stey): The University of

Chicago and Northwestern University Postdoctoral

Health Services Research T32 Program

















Do you want to be a research mentor? Are you a resident looking for a mentor? The ANNUAL Resident Research Recruitment "Blitz" is October 19, 2023 at 6:30 pm. Email Karen Ho (kho1@nm.org) to sign up!

Check out the FULL
ONLINE EDITION of
SURGE-N!

These are the poster presenters from DOS at the 17th Annual Lewis Landsberg Research Day on September 14, 2023:

Megan Alagna (Karen Ho), Iris Bai (Hassan Ghomrawi), Mariana Bustamente (Susan Clare), Jennie Chen (Steve Schwulst), Ian Erkkila (Anish Kadakia), Kacie Ford (Steve Schwulst), Chirag Goel (Rob Gali-



ano), Michelle Guo (Zach Dietch), Atieh Hajirahimkhan (Seema Khan), Bima Hasjim (Daniela Ladner), Carolyn Hu (Karen Ho), Lynn Huang (Salva Balbale), Cassandra Iroz (Julie Johnson), Shareni Jeyamogan (James Mathew), Angel Jimenez (Amir Alhajjat), Taisuke Kaihou (Ankit Bharat), Imadh Khan (Karen Ho), Oukseub Lee (Seema Khan), Alison Lehane (Mehul Raval), Kathryn McElhinney (Monica Laronda), Tanvi Nayak (Andy Hoel), Sarbjeet Niraula (Karen Ho), Sierra Orr (Erin Rowell), Erik Rabin (Sam Kim), Nancy Rivera Bolanos (Bin Jiang), Jennifer Slota (Ryan Merkow), Cheresa Smith (Mehul Raval), Charles Stark (Bin Jiang), Meredith Taylor (Satish Nadig), Huifeng Wang (Guillermo Ameer)

**Emily Cerier** (senior author: **Ankit Bharat**) has a manuscript, "Wireless Broadband Acousto-Mechanical Sensors as Body Area Networks for Continuous Physiological Mon-

nature medicine

First- and second-author publications from DOS residents and

fellows from July until September 2023!

itoring" accepted in Nature Medicine!

Atieh Hajirahimkhan (senior author: Birgit Dietz) published "Breast Cancer Prevention with Liquiritigenin from Licorice Through the Inhibition of Aromatase and Protein Biosyn-

thesis in High-Risk Women's Breast scientific reports Tissue" in Scientific Reports!

Calvin Chao (senior author: Ashley Vavra) gave a talk on "Development of Enhanced Recovery Pathway for All -Comer Infrainguinal Bypass" at the World Congress of the ERAS Socie- ERAS Society ty in Lisbon, Portugal in May 2023.



Lauren Janczewski (senior author: Michael Overman) published "Survival outcomes used to validate version 9 of the American Joint Committee on Cancer staging system for appendiceal cancer" in CA: A Cancer

CA: A Cancer Journal for Clinicians Journal for Clinicians.

Sarah Nisivaco and Andre Son both gave oral presentations, "Valve-Sparing Aortic Root Replacement: Series Com-

parison of Bicuspid vs. Tricuspid Taming Aortic Valve" and "Aortic Root Enlargement with Bioprosthetic



**Dom Vitello** (senior author: Ryan Merkow) published an online book chapter on "Management of Colorectal Cancer Liver Metastases" in Global Med-**GMKA** ical Knowledge Alliance.



Sonj Aronson (senior author: Arun Gosain) published "Evidence-Based Practices in Facial Reanimation Surgery" for Plastic and congenital facial paralysis. Reconstructive

Thoracic Surgeons-Korean Society for Thoracic and Cardiovascular Surgery Heart Valve Disease Forum in Seoul, Korea in September 2023. Sarah also gave a talk, "Late Results of Chord Transfer and Other Techniques for Anterior Leaflet Repair Without Neochords" (senior author Pat McCarthy) at the AATS Annual Meeting in May 2023.

Valves in Patients Less Than 65 Years Old" (senior

author **Chris Malaisrie**) at the Joint Society of

Find links to meetings abstract deadlines here!



Do you have trainee research news to share? Email Karen Ho (kho1@nm.org)!!

Edige Abahuje (senior authors Anne **SURGER** Stey and Julie Johnson) published a qualitative study on team characteristics and leadership associated with information sharing in ICUs, finding that (1) team leaders used variable leadership techniques to involve team members in discussions for information sharing, (2) predefined tasks for team members allowed them to prepare for effective information sharing during rounds, and (3) a psychologically safe environment allowed team members to participate in discussions related to patient care.



Sandeep Bharadwaj (senior authors: Chris Malaisrie and Greg Dumanian) showed that mesh su-



ture may resist bone cutting seen in sternal wire closure in bone models with comparable distraction to currently used sternal closure methods.



Brooke Golisch (senior author Leah **Tatebe**) <u>published</u> a commentary on gun violence and structural racism. They asked, "How can we move be-JAMA Surgery yond 'further investigation' statements to enact change? and stressed

the importance of multiple disciplines (public health, law, medicine, social work, etc) uniting both within and outside hospital walls to support patients beyond the hospital and research.



Steven Papastefan (senior author Seth Goldstein) published a review article on the role of IRBs in evaluating surgical practice innovations and the aspects of certain surgical

CLINICAL

**CONGRESS 2023** 

innovations that are distinct from experimentation, concluding that "new applica-Pediatric tions of indocyanine green do not Surgery constitute human subjects research."

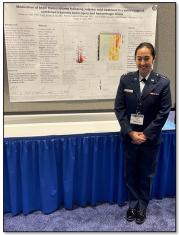
Are you going to American College of Surgeons Clinical Congress in October 2023? Here is the list of trainee presentations!

Session	Session Title	Presenter (Senior author)	OCTOBER 22-25
SP104-2	e-Posters II - Station 4: Health Services Research I	Egide Abajuje (Amy Halverson)	ACS AMERICAN COLLEGE
SP201-3	e-Posters III - Station 3: Pediatric Surgery I	Charesa Smith (Mehul Raval)	ACY OF SURVEONS
SP201-5	e-Posters III - Station 5: Surgical Oncology I	Cassie Valukas (Dave Bentrem)	
SP203-6	e-Posters IV - Station 6: Plastic & Maxillofacial Surgery I	Stuti Garg (Rob Galiano)	
SP-301-1	e-Posters V - Station 1: Pediatric Surgery II	J. Benjamin Pitt (Fizan Abdullah)	
SP301-2	e-Posters V - Station 2: Plastic & Maxillofacial Surgery II	Josh Weissman (Arun Gosain)	
SF312	General Surgery	Sam Warwar (Yue-Yung Hu)	
SF104	Health Services Research I	Egide Abahuje (Amy Halverson)	
SF111	Otolaryngology/Neurosurgery	Stuti Garg (Rob Galiano), Iulianna Taritsa (Rob Galiano)	
VE104	Pediatric Surgery I	Michela Carter (Seth Goldstein)	
SF123	Pediatric Surgery II: Clinical	Steven Papastefan (Aimen Shaaba Suhail Zeineddin (Bethany Slater)	an),
SF219	Pediatric Surgery IV: Clinical	Kathryn McElhinney (Erin Rowell)	
SF215	Plastic and Maxillofacial Surgery II	Stuti Garg (Rob Galiano)	
SF220	Surgical Education III: Surgical Practice	Suhail Zeineddin (Yue-Yung Hu)	
SF227	Surgical Education IV: Educational Environment	Brooke Golisch (Yue-Yung Hu), Lauren Janczewski (Yue-Yung Hu)	
SF228	Surgical Oncology III: Melanoma & Immunology	Lauren Janczewski (Judy Caroline Boughey)	
SF229	Transplantation and Tissue Engineering II	Bima Hasjim (Lihui Zhao)	
SF209	Trauma/Burn/Critical Care IV: Basic & Translational Science	Jessie Ho (Hasan Alam)	
SF222	Trauma/Burn/Critical Care V: Health Services & Outcomes	Dinushi Kulasekere (Anne Stey)	





Kate Ott (senior author Aimen Shaaban) performed a retrospective **review** of pediatric patients treated for nonparasitic splenic cysts and found that "sclerotherapy is an effective treatment for splenic cysts, particularly those measuring <8 cm.



Jessie Ho (senior author **Hasan Alam**) had 3 presentations at the Military Health Service Research Symposium in August 2023: "How long is too long: Prolonging the zone 1 aortic occlusion time to 4 hours using a partial REBOA in a swine model" (which



received Honorable Mention in the Young Investigator's Competition),

"Managing Traumatic Brain Injuries

in the Prolonged Casualty Care Setting: Development of an anesthesia resuscitation kit" (poster), and "Modulation of Brain Transcriptome Following Valproic Acid Treatment in a Swine Model of Combined Traumatic Brain Injury and Hemorrhagic Shock" (poster).





Shareni Jeyamogan and Jes Sanders (senior authors James Mathew and Joe Leventhal) pre-AMERICAN SOCIETY OF Senteu a posicionic ransplantation "Tolerogenic Potential of

FOXP3+ Exosomes Derived from Alloantigen Specifically Expanded Regulatory T Cells."



Kareem Termanini (senior author Arun Gosain) described innovative modifications to the buccinator myomucosal flap by doing a one stage procedure without a mucosal bridge,

incorporating full-thickness buccinator muscle during flap elevation, and placement of bilateral buccal fat flaps. PRS Global Open





Audra Reiter (senior authors Ezra Teitelbaum and Eric Hungness) found in a retrospective study that, of 2159 patients who underwent bariatric surgery, postoperative bleeding occurred more frequently in the group on Lovenox for VTE prophylaxis compared with the heparin group (p < 0.01), reoperation for bleeding was more frequent with Lovenox (p = 0.04), but there

was no difference in VTE between the two groups.



Sam Warwar (senior author Sue Jordan) published an Editorial Commentary on breast cancer disparities among sexual and gender minority (SGM) populations, concluding that "closing the gap starts with in-

creasing sexual orientation and gender identity data collection in oncology clinics and national cancer registries ... to address their diverse health needs better and provide high-quality cancer care."

TRANSLATIONAL CANCER RESEARCH



Suhail Zeineddin (senior author Tim Lautz) assessed the prevalence of neuroendocrine tumors (NET) in appendectomy specimens and found that the prevalence of NET was 1:271. Most tumors were small and no re-

currence was noted during the follow-up period. They concluded, "The possibility of delayed diagnosis of these tumors should be part of the discussion for nonoperative management of pedi-

Pediatric Blood & Cancer atric acute appendicitis."





**Charles Logan and Sara Nun**nally (senior authors Dina Elaraj and Cord Sturgeon) studied 3492 patients with adrenocortical carcinoma in the Na-

tional Cancer Database and found that rural residents were more likely to travel long distances for surgery than urban residents (P<.001), patients received adjuvant chemo with rates decreasing 1% per 4-mile travel distance increase, and that long distance travel was associated with worse

survival among surgically treated patients.

