MEET DR. GANESH SWAMY

Dr. Ganesh Swamy is a Clinical Assistant Professor of Orthopaedic Surgery. In addition to an MD from the University of Ottawa, Dr. Swamy also received a PhD from the University of Calgary Medical Sciences program.

Dr. Swamy is involved in a clinical and lab-based research projects. His clinical research centres around the technical aspects of adult spine deformity surgery, and him and his colleagues have overseen significant advances in surgical methodology. As a result of these advancements, what was previously a highly technical resource-intensive operation has been reduced to a routine intervention. Consequently, Dr. Swamy and his colleagues have been recognized as national leaders in this field.

Dr. Swamy’s lab-based research centers around intervertebral disc (IVD) degeneration. His PhD work involved the study of murine models of IVD degeneration, compared to normal aging, increased inflammation and injury. The results of his thesis have been presented at international society meetings and will be published soon. Currently, preparations are underway for two projects looking at human IVD pathologies: determining whether there is a biomarker that can be used to identify IVD herniations (in collaboration with Eve Technologies) and an investigation into tissue properties in adult degenerative scoliosis and degenerative spondylolisthesis, both of which are driven by altered biomechanics of the IVD. These two projects have spurred the creation of a tissue bank, which will be a valuable resource for years to come and allow for fruitful investigation of IVD for years to come in Calgary.

For Dr. Swamy, the most rewarding part of being a researcher is the ability to use a variety of tools to solve the important questions germane to our surgical practice - from mice to detailed study of humans with new technology. He believes that there has been an explosion of such tools in recent years, and that he and his fellow surgeon-scientists, are lucky to be practicing in this time period.
CONGRATULATIONS TO OUR GRANT & AWARD WINNERS!

CSRDF:
- Dr. Jan Pasieka, General Surgery (Basic Science Research) – Can Molecular Testing Improve the Inter-Observer Variability in Diagnosing Challenging Follicular Thyroid Neoplasms?
  Co-Applicants: Drs. Steven Craig, Ralf Paschke, Markus Eszlinger, Moosa Khalil
- Dr. Randy Moore, Vascular Surgery (Clinical Research) – Exercise Rehabilitation for Patients with Critical Limb Ischemia after Revascularization.
  Co-Applicants: Drs. Andrea Devrome, Matt James, Todd Anderson, Brian MacIntosh, James Stone, Sandeep Aggarwal
- Dr. Derrick Randall, Otolaryngology, Head and Neck Surgery (Clinical Research) – Swallowing Outcomes Following Surgery for Obstructive Sleep Apnea
  Co-Applicants: Drs. Alysha Rasool, Jason Chau
- Dr. Alexander Rezansoff (Clinical Research) – Randomized Feasibility Study Comparing Bracing Protocols Following MCL Injury
  Co-Applicants: Drs. Lian Willetts, Sarah Anderson
- Dr. Aaron Bois (Education Research) – Arthroscopic Double-Row Repair Technique for Small-to-Medium Sized Full-Thickness Rotator Cuff Tears.
- Dr. Tony MacLean (Health Systems Research) – How Often do Pathology Reports for Malignant Colorectal Polyps Contain Sufficient Information for Colorectal Surgeons to Make Clinical Decisions when Adhering to Clinical Practice Guidelines?
  Co-Applicants: Drs. Donald Buie, Tamara Gimon, Mark Dykstra, Ksenia Chezar, Rebecca Buttar
- Dr. Tony MacLean (Health Systems Research) – Young patients with non-familial colorectal cancer: a population based analysis.
  Co-Applicants: Drs. Donald Buie, Alysha Keehn, Ameer Farooq

Other Awards:
- Dr. Karim Manji (Donation from Dr. Mark Zivot) – Efficacy of a toe and flow model in reducing major amputations among DFU patients.
- Dr. Michael Monument (Canadian Orthopaedic Research Foundation) – STING Activation as an Immunotherapy for Soft Tissue Sarcoma.
- Dr. Jeff Biernaskie (Calgary Firefighters’ Burn Treatment Society) – CFBTS Chair in Skin Regeneration and Wound Healing
- Dr. Murray Wong (Orthopaedic Trauma Association, Resident Grant) – Dynamic CT Analysis of Normal Syndesmosis Motion and Syndesmosis Motion After Static and Dynamic Fixation.

If you have recently received a grant or award and would like to be featured in the next newsletter, please contact Maria Fernando at Maria.Fernando2@ahs.ca.
IMPORTANT DATES

Upcoming Internal Events

• 37th Annual Surgeons' Day – June 14, 2019 (Register here for the Research Day)
• 37th Annual Surgeons' Day Gala – June 14, 2019 (Please RSVP to Jo-El Buerlen by May 31, 2019)

Upcoming Internal Grant Competitions

• Department of Surgery Open Access Publication Fund – Deadline: June 30, 2019

All applications must be submitted to osr@ucalgary.ca by the specified deadline. For additional information on these competitions, please contact Maria Fernando.

Upcoming External Grant Competitions

• National Institutes of Health Research Grants (R01) - Deadline: June 5, 2019
• National Institutes of Health Exploratory/Development Research Grant – Deadline: June 16, 2019
• The Arthritis Society Strategic Operating Grants – Deadline: August 25, 2019

Please note that these competitions have internal University of Calgary deadlines and requirements. For assistance navigating the requirements, please contact Maria Fernando or the Office of Research Services.
RECENT DOS PUBLICATIONS (MID FEB 2019 – APRIL 2019)

General Surgery:

Ophthalmology:

Orthopaedics:
- Affan A, Al-Jezani N, Raitlon P, Powell JN, Krawetz RJ. Multiple mesenchymal progenitor cell subtypes with distinct functional potential are present within the intimal layer of the hip synovium. BMC Musculoskelet Disord. 2019. PMID: 30909916.


Otolaryngology, Head and Neck Surgery:


Pediatrics:


Plastic Surgery:


Surgical Oncology:


Thoracic:


Urology:


Vascular:

**Publications are retrieved from PubMed using a search based on Calgary (location) and Department of Surgery (affiliation) with a cut-off date of April 30, 2019 or from publications that have been submitted to the OSR for inclusion in the newsletter. If your publication was missed please send the information to Maria Fernando at Maria.Fernando2@ahs.ca to have it featured in the next issue.