

## Surgery Grand Rounds May 3rd, ACTRI, 7:00am - 8:30am and UC San Diego Faculty Club, 5:00pm - 8:30pm





### **UCSD Department of Surgery**

# WELCOME

On behalf of the entire Department of Surgery at UC San Diego, we want to welcome you to the Department of Surgery's Sixth Annual Research Symposium in Surgical Sciences.

We want to thank Drs. Patricia Thistlethwaite, Jason Sicklick, Allen Ryan, Laura Godat, Antonio De Maio and Michael Bouvet for their help in moderating the scientific sessions and Ms. Tabitha Sedino, Lourdes Huirdes, Kaydee Silva and staff of the UC San Diego Faculty Club for their assistance in preparation for the event.





ANDREW BAIRD PHD and BRYAN CLARY MD, MBA



#### UNIVERSITY of CALIFORNIA, SAN DIEGO SCHOOL OF MEDICINE

Bryan M. Clary, M.D., M.B.A. Professor and Chair, Department of Surgery MJ Orloff Family Endowed Chair in Surgery Surgeon-In-Chief UC San Diego Health

Dear Colleagues,

On behalf of Dr. Andrew Baird, Vice-Chair for Research, and myself, it is our privilege to host the 2017 Annual UC San Diego Department of Surgery *Research Symposium in Surgical Sciences*.

Today's program is an opportunity to recognize and celebrate the extraordinary research accomplishments of our faculty and trainees, who work every day to ensure better outcomes for our patients. Although conducting rigorous research is not without challenges—investigations do not always lead to anticipated or desired outcomes; funding is increasingly difficult to secure; our time and focus can be strained by competing commitments—few things are as rewarding as creating new knowledge and moving our field forward.

Igniting the passion of our trainees in our research mission is another key goal of our Department, and almost as rewarding as the benefit we gain from their curiosity, questions, and perseverance. We must periodically step back and reflect on our efforts, and celebrate them in a way that invigorates and prepares them to meet the challenges of tomorrow.

Today's symposium is also an opportunity to stimulate new ideas and collaborations by highlighting the breadth of research activities happening across the surgical disciplines It is refreshing—and important— to occasionally lift our heads up, look around, and see what is happening outside of our silos. We may identify existing programs and resources that can enhance our own research portfolios, and the camaraderie of like-minded peers can be a source of inspiration and motivation.

Lastly, today's program is a way for me to say *Thank You* and *Job Well Done* to all of you who are pushing our fields forward. A Department of Surgery that does not prioritize a research agenda will not only fail to make things better for tomorrow's patients, but will also fail to provide the best care to today's patients. I am firmly convinced that providers who read about, write about, and study the diseases they treat are poised to provide a quality of care that cannot be achieved by those who only focus on today's technology and know-how.

So please celebrate with us your many accomplishments. I hope that you will come away as excited as I am about the great things happening in our Department.

Sincerely,

Dr. Clary

## **Participating Surgical Disciplines**

- 1. Bariatric, Metabolic and Minimally Invasive Surgery.
- 2. Cardiothoracic Surgery.
- 3. Colorectal Surgery.
- 4. Endocrine Surgery
- 5. Hepatobiliary and Transplant Surgery
- 6. Neurosurgery.
- 7. Otolaryngology.
- 8. Plastic and Reconstructive Surgery.
- 9. Surgical Oncology.
- 10. Trauma, Surgical Critical Care, Burns and Acute Care Surgery.
- 11. Urology.
- 12. Vascular and Endovascular Surgery.

#### SCHEDULE

PART 1 (ACTRI Auditorium, 1st Floor, 1W-210)						
SURG	SERY GRAND R		CHAIR: Dr. Bryan Clary			
7:00 - 7:30 AM Andrew Baird			Surgery Research 2016-2017			
		ofessor				
1.50 - 0.50 AN		Kirk, MD, PhD	Co-Stimulation Blockade for Organ Transplantation			
PART 2	(UCSD Faculty	Club, Atria)				
5:00-6:00	) pm		Reception and			
	-	Res	earch Poster Presentations			
(A) BASI	C SCIENC	ES				
		Uniquely-Human	Genes Contribute to a Uniquely-Human Inflammatory Response:			
Baird	Andrew		njury, Cancer and Regenerative Medicine			
Cazes	Alex		kinase in the regulation of the antitumor immune response in pancreatic cancer			
			nylated tumor DNA in plasma and saliva after treatment predicts recurrence in HPV-negative head			
Haft	Sunny		bus cell carcinoma			
			ombined With Irinotecan Caused Regression In An Adult Pleomorphic Rhabdomyosarcoma Patient-			
Igarashi	Kentaro		ic Xenograft (PDOX) Nude-Mouse Model			
			inistration of tumor-targeting Salmonella typhimurium A1-R regresses a cisplatin-resistant relapsed			
Igarashi	Kentaro	osteosarcoma in	a patient-derived orthotopic xenograft (PDOX) mouse model			
			Phosphate Platinum Complex Effectively Targets an Undifferentiated Pleomorphic Sarcoma Better			
Igarashi	Kentaro		n in a Patient-Derived Orthotopic Xenograft (PDOX)			
			Salmonella typhimurium A1-R sensitizes melanoma with a BRAF-V600E mutation to vemurafenib in			
Kawaguchi	Kei		orthotopic xenograft (PDOX) nude mouse model			
Kawaswahi	17 - 1		Gemcitabine And Docetaxel Regress Both Gastric Leiomyosarcoma Proliferation And Invasion In An			
Kawaguchi	Kei		nt-Derived Orthotopic Xenograft (Ipdox) Model			
Kiyuno	Tasuku		Tumor-Targeting Salmonella Typhimurium A1-R On A Doxorubicin-And Dactolisib-Resistant			
Kiyuna	Tasuku		ic-Cell Sarcoma In A Patient-Derived Orthotopic Xenograft Nude Mouse Model			
Kiyuna	Tasuku	Assay	or Angiogenesis by Salmonella Typhimurium A1-R in the In Vivo Gelfoam $^{\scriptscriptstyle (\! R\!)}$ Color-Coded Imaging			
riyulla	I ASUKU		a Labeling During Multiple Passage of a Sarcoma Imageable Patient-Derived Orthotopic Xenograft			
Kiyuna	Tasuku		Jorescent Protein Transgenic Nude Mice			
Koyama	Yukinori		-Muc16 Signaling in The Pathogenesis of Liver and Lung Fibrogenesis			
Liang	Shuang		1 Promotes The Development Of Hepatocellular Carcinoma			
Liu	Xiao		egulation of Hepatic Stellate Cell Inactivation during Regression of Liver Fibrosis			
Liu	Shanglei		e Analysis of Tissue Ischemia using ICG in Pig and Human			

	Ryan	Blocking IL-17 Signaling Attenuates Alcohol Induced Liver-Brain Inflammatory Axis	
Mercado	Francisco	Cooperation Of RNA Binding Proteins Musashi 1 And 2 In Pancreatic Cancer Progression	
Miyake	Kentaro	A Patient-Derived Orthotopic Xenograft (PDOX) Model Of Recurrent Ewing's Sarcoma Identifies Effective Therapy	
		High Efficacy Of Eribulin On Doxorubicin-Resistant Ewing's Sarcoma Patient-Derived Orthotopic Xenograft (PDOX)	
Miyake	Kentaro	Nude Mouse Model	
Musallam	Sami	Characterization of Primary Human Hepatic Stellate Cells	
Sharma	Shweta	A Spontaneous Three-Dimensional Model to Induce Epithelial Mesenchymal Transition in Pancreatic Tumor Cells	
Xu	Jun	The Origin of Myofibroblasts in Cholestatic Liver Fibrosis	
Zhang	Yu	Differential Notch Ligand Signaling Drives the Pulmonary Hypertensive Phenotype	
(B) CLINI	CAL SCIE	NCES	
Cronin	Brendan	A Primary Comparison of Perioperative Mastectomy Complications by Indication for Surgery	
Dobke	Marek	UCSD Plastic Surgery - Hub for Research on Regenerative Medicine and Stem Cells Based Surgery.	
		Brachial Artery Hemodynamics Assessed by Duplex Ultrasound Is Diagnostic of Dialysis Access-associated Steal	
Inui	Tazo	Syndrome	
Jubbal	Kevin	Diagnosis and Management of Groin Pain in Athletes	
Liu	Shanglei	Sleeve Gastrectomy for High Risk Veteran Obese Patients with Diabetes	
		Robotic Transanal Minimally Invasive Surgery (TAMIS) for Rectal Neoplasm: A First North American Experience of	
Liu	Shanglei	Two Institutions	
Pang	John	Chronic opioid use following surgery for oral cavity cancer	
Tringale	Kathryn R	Opiate prescribing patterns and associated clinical factors in patients undergoing surgery for oral cavity cancer	
Wali	Arvin R	The Balloon Bridge: A Novel Technique for Crossing a Carotid Stent	
Wali	Arvin R	Laterality of MCA occlusion as a predictor of peri-procedural intubation during thrombectomy	
(C) HEAL	<b>TH SERVI</b>	CES & OUTCOMES RESEARCH	
	٨	Impact of Humanitarian Experiences on Otolaryngology Trainees	
Jafari	Aria	I inipact of numaritarian experiences on Otolaryngology Trainees	
Jafari Jubbal			
	Kevin	Is Age a Contraindication for Microsurgery?	
Jubbal		Is Age a Contraindication for Microsurgery? Trends in Racial, Ethnic and Gender Diversity in Integrated vs. Independent Plastic Surgery Residencies.	
Jubbal Kordahi	Kevin Anthony Samuel	Is Age a Contraindication for Microsurgery?       Trends in Racial, Ethnic and Gender Diversity in Integrated vs. Independent Plastic Surgery Residencies.       Surgeon specialty and reconstructive outcomes in alveolar bone grafting for patients with oral clefts	
Jubbal Kordahi Lance Liu	Kevin Anthony Samuel Shanglei	Is Age a Contraindication for Microsurgery?       Trends in Racial, Ethnic and Gender Diversity in Integrated vs. Independent Plastic Surgery Residencies.       Surgeon specialty and reconstructive outcomes in alveolar bone grafting for patients with oral clefts       Solving the Surgeon Ergonomic Crisis with Surgical Exosuit	
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Jubbal Kordahi Lance Liu Nguyen Nguyen-Ta Park	Kevin Anthony Samuel Shanglei Vi Kim	Is Age a Contraindication for Microsurgery?     Trends in Racial, Ethnic and Gender Diversity in Integrated vs. Independent Plastic Surgery Residencies.     Surgeon specialty and reconstructive outcomes in alveolar bone grafting for patients with oral clefts     Solving the Surgeon Ergonomic Crisis with Surgical Exosuit     Caveat Emptor - Defining the Landscape of Publishers Actively Soliciting Manuscript Submissions     Analysis of the impact of a clinical decision support intervention in reducing red blood cell transfusion utilization in the general and subspecialty surgery services     Evaluation of Various Information Sources in Plastic Surgery Decision-Making	

Ward     Pulmonary Metastasis       6:15     Jayanth Shankara- Naryanan     Irreversible Electroporation Of Pancreatic Cancer Can Induce "In Situ" Vaccination Effect And Elicit A Immune Response       6:20     Divya     Characterizing the Epigenetic Landscape Identifies Putative Therapeutic Targets in the Pancreatic Cancer C Sood       6:20     Divya     Characterizing the Epigenetic Landscape Identifies Putative Therapeutic Targets in the Pancreatic Cancer C Sood       6:20     Thinzar     Tumor-specific antibody labeling of pancreatic cancer in a patient-derived orthotopic xenograft (PDOX) mouturing a fluorescent humanized anti-CEA antibody       6:30     Ricardo     Modulation of amyloid β peptide oligomerization and toxicity by extracellular Hsp70 in Alzheimer disease       6:35     Marie-Liesse Astein-Labat     Activation Of Oncogenic K-RAS In Lung Epithelial Cells Results In Cell De-Differentiation To An Embryonic I Progenitor Cell Phenotype.       6:40     Priyanka     Anti-CTGF Therapy for Non-Small Cell Lung Cancer       6:45     Christopher Reid     A Novel Method for Quantifying Intracranial Volume Change by Distraction Osteogenesis for Craniosynostos       6:55     Jonathan     Indocyanine Green (ICG) Fluorescence-Guided Parathyroidectomy for Primary Hyperparathyroidism       7:00     Daniel Han     Pathological Determinants of Recurrence and Survival in Stage II Renal Cell Carcinoma				
(A) BASIC RESEARCH     CHAIRS: Drs. Allen Ryan and Patricia Thistlethwaite       6:05     Ouyen Nguyen     Injectable Peptides To Improve Intraoperative Nerve Identification and Preservation       6:10     Erin Ward     Compensatory Changes in the Tumor-associated Immune Cell Profile in the Microenvironment of Breast Ca Pulmonary Metastasis       6:15     Naryanan     Compensatory Changes in the Tumor-associated Immune Cell Profile in the Microenvironment of Breast Ca Pulmonary Metastasis       6:15     Naryanan     Immune Response       6:20     Divya     Characterizing the Epigenetic Landscape Identifies Putative Therapeutic Targets in the Pancreatic Cancer Can Sood       6:25     Lwin     using a fluorescent humanized anti-CEA antibody       6:30     Ricardo     Modulation of amyloid β peptide oligomerization and toxicity by extracellular Hsp70 in Alzheimer disease Capone       6:35     Marie-Liesse     Activation Of Oncogenic K-RAS In Lung Epithelial Cells Results In Cell De-Differentiation To An Embryonic I Progenitor Cell Phenotype.       6:40     Chaudhary     Anti-CTGF Therapy for Non-Small Cell Lung Cancer       6:40     Christopher     A Novel Method for Quantifying Intracranial Volume Change by Distraction Osteogenesis for Craniosynostos 6:55       6:50     Christopher Reid     A Novel Method for Quantifying Intracranial Volume Change by Distraction Osteogenesi				
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6:40   Chaudhary   Anti-CTGF Therapy for Non-Small Cell Lung Cancer     6:45pm 5 minute transition)   CHAIRS: Drs. Jason Sicklick and Michael Bouvet     (B) CLINICAL RESEARCH   CHAIRS: Drs. Jason Sicklick and Michael Bouvet     6:50   Christopher Reid   A Novel Method for Quantifying Intracranial Volume Change by Distraction Osteogenesis for Craniosynostos     6:55   Jonathan   Indocyanine Green (ICG) Fluorescence-Guided Parathyroidectomy for Primary Hyperparathyroidism     7:00   Daniel Han   Pathological Determinants of Recurrence and Survival in Stage II Renal Cell Carcinoma     7:05   Chinwe Kpaduwa   Classification and management of congenital breast anomalies     7:10   Ran Luo   How bariatric surgery affects liver volume and fat density in NAFLD patients     7:15   Rebecca Marmor   Home CHG Bathing Component of Perioperative SSI Prevention Bundle Independently Decreases Infection		arie-Liesse	Activation Of Oncogenic K-RAS In Lung Epithelial Cells Results In Cell De-Differentiation To An Embryonic Lung Progenitor Cell Phenotype.	
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7:20 Bharat		ebecca	Home CHG Bathing Component of Perioperative SSI Prevention Bundle Independently Decreases Infection Risk	
Panuganti Short-renn Morbidity Following Endoscopic Modified Lotinop (Drai-in) Procedure Compared to Drai-lia	7:20 E	3harat	Short-Term Morbidity Following Endoscopic Modified Lothrop (Draf-III) Procedure Compared to Draf-lia	
7:25 John Pang Chronic opioid use following surgery for oral cavity cancer   7:30pm 5 minute transition)	7:25 Joł	nn Pang	Chronic opioid use following surgery for oral cavity cancer	

• •	ALTH SERVICES & DMES RESEARCH	CHAIRS: Drs. Laura Godat and Antonio De Maio					
7:35	Andrew Barleben	Endosalvage Techniques – Long-Term Results of Perigraft Arterial Sac Embolization (PASE) Suggest Safety, Efficacy & Durability					
7:40	Charlie Chen	A Longitudinal Look at Resident Cosmetic Experience					
7:45	Aria Jafari	Revision rates and time to revision following endoscopic sinus surgery: a large database analysis					
7:50	Sean Li	The Impact of Residents on Patient Satisfaction					
7:55	Shanglei Liu	Modernizing Surgical Education: Digital Motion Tracking of Hand Movements During Surgical Knot Tying					
PART	<b>4</b> (UCSD Faculty C	ub, Dining)					
	Keynote Address (CHAIR: Dr. Bryan Clary)						
	8:05 pm ynote Address R: Dr. Bryan Clary)	Professor Alan D. Kirk, MD, PhD "The Surgeon Scientist"					