

Weekly Research Newsletter April 2, 2018

FOR THE FIRST TIME

PERMIAN BASIN CAMPUS RECEIVES NIH AWARD







Prof. Alexander Oraevsky (President and Chief Technology Officer at TomoWave Laboratories,

Dr. Natalia Schlabritz-Lutsevich, Associate Dean of Research, Dept. of Obstetrics and Gynecology

"Point of care monitoring of feto-placental oxygen uptake"

1R43 HD095348-01

The 14th Commercial Resupply Services (awarded by NASA) mission to the space station by SpaceX represents a diverse combination of science, technology, and the validation of new facilities that will contribute to greater research capacity in the future. To learn more about the investigations, research facilities, and launch partners involved on this mission, <u>visit our launch dashboard</u>.

Catch all the excitement of pre-launch and launch updates today starting at 4:00 p.m. EDT on NASA TV and/or www.nasa.gov/ntv

Follow CASIS on <u>Twitter</u> and <u>Facebook</u> for continuous updates and research highlights that are destined for the International Space Station U.S. National Laboratory.

Would you like to talk to the TTUHSC Vice President of Research?



Quentin R. Smith. Ph.D.

New Vice President of Research will visit Permian Basin Campus on April 18-20

Please, contact Isabel Garza at Isabel.Garza@ttuhsc.edu to schedule meeting

2018 Permian Basin Research Forum

Keynote speaker



Presentation: "Schistosomiasis Vaccine

Afzal A. Siddiqui, M.Phil., Ph.D.
Grover E. Murray Professor
Professor, Internal Medicine | Immunology & Molecular Microbiology | Pathology
Clinical Professor, Pharmacy Practice
Vice President (Institutional Collaborations) | Vice Chair (Research) - Internal Medicine
Director, Center for Tropical Medicine & Infectious Diseases
http://daily/dose.ttuhsc.edu/2017/iul/v/siddiou.iasox

Research Day Schedule Thursday, April 19, 2018

7:45-8:00 Breakfast

8:00-8:15 Opening Ceremony

8:15-8:30	Welcome – Dr. Gary Ventolini, Professor and Regional Dean of SOM Dr. Natalia Schlabritz-Lutsevich, Associate Regional Dean for Research
8:30-8:45	Jonathan Garcia, Lane Williams, and Andrew West, UTPB/TTUHSC Real Time Detection of Bacterial Biofilm Growth
8:45-9:00	James Wang, M.D., PGYII, Family Medicine Reducing Medical Errors Associated with Same/Similar Name Providers
9:00-9:15	Brady Miller, MSIII Ingestion of Excised HPV-Infected Epithelium Leads to Resolution of Treatment Refractory Verrucae in Two Patients
9:15-9:30	Katherine Shreyder, M.D., Ph.D., PGYII, Internal Medicine, Regional Dean's award recipient Maternal cardiovascular echocardiographic structure and function in obese and non-obese pregnant patients in the first trimester of pregnancy
9:30-9:45 9:45-10:00	Zakaria Hindi, M.D., PGYII, Internal Medicine, Regional Dean's award recipient The Role of Signal Induction Regulatory Protein-alpha (STRP-a) in Hematophagocytic Syndrome Damien Galindo, 10 th Grade, Ector County Independent School District Decomposition in Space
10:00-10:15	Daya Sharma, Ph.D., Associate Professor II Computer Information Systems, Odessa College The Rise of Ransom Ware in Healthcare and HIPPA Compliance
10:15-10:30	Break
10:30-10:45	Elsa Parra, MSIII Tissue Histogram Intensity of Fetal Liver and Reference Organs in Lean Pregnant Women
10:45-11:00	Alfredo Iardino, M.D., PGYII, Internal Medicine Is weakness in a young man always MS?
11:00-11:15	Deidre Morales, 10 th Grade, Ector County Independent School District The efficacy of <i>Idonella Sakaiensis</i> in a Microgravity Environment
11:15-11:30	Jason Osborne, Chief Innovation Officer, Ector County Independent School District Accelerating Science and K-12 Education Outcomes through Novel Citizen Science Methods Development
11:30-12:30	Lunch Presentation Brandon Lamarche, Ph.D., Senior Scientist, ACEA Biosciences Diverse Applications of xCELLigence Real-Time Cell Analysis: From Bacterial Biofilms to Parasitic Worms
12:30-1:30	Keynote address – Dr. Afzal A. Siddiqui Schistosomiasis Vaccine
1:30-1:45	Ritvij Satodiya, M.D., PGYI, Psychiatry, Chair of residents' research subcommittee. Regional Dean's award recipient Posttraumatic Stress Disorder and Depression Symptom Severities are Differentially Associated with Hippocampal Subfield Volume Loss in Combat Veterans
1:45-2:00	Michael Zavada, Ph.D., Dean of Art and Sciences, UTPB Why In-House Research Forums
2:00-2:15	Daniela Pino, M.D., PGYII, Obstetrics & Gynecology Antenatal Evaluation by Ultrasound and Genetic Testing of Idiopathic Infantile Arterial Calcification with Placental Correlation
2:15-2:30	Grace Shim, MSIII Anti-Inflammatory Effect of Endogenous Cannabinoid Anadamide in ex vivo model of the blood brain barrier
2:30-2:45	Cristina Penon, M.D., PGYI, Family & Community Medicine Twenty-first Century Scurvy
2:45-3:00	Break
3:00-3:15	Saranya Rajasekar, M.D., PGYI, Internal Medicine A Rare Cause of Emphysematous Gastritis: Sarcina Ventriculi
3:15-3:30	Sajjad Ali, M.D., PGYII, Internal Medicine Association of the short-term mortality and hyperuricemia in patients with STEMI
3:30-3:45	Eugenia Banina, M.D., PGYII, Internal Medicine, Regional Dean's award recipient A Blessing in Disguise: factors that cause a high blood pressure condition in pregnant women protect against breast cancer
3:45-4:00	Nuvneet Khandelwal, MSIV, Regional Dean's award recipient The Effect of Self-Directed Meditation on Third Year Medical Students
4:00-4:15	Closing Ceremony – Book reading by local writer Bob Campbell Monica's Apples, The Floating Speck, Gerard Manley Hopkins, Elijah-John the Baptist, Gideon's Fleece, The Ghost Melchizedek, Billy the Kid's Last Dance
4:15-4:30	Awards' ceremony

2018 Short presentations



Michael Zavada, Ph.D. Why In-House Research Forum



The Rise of Ransom Ware in Healthcare and HIPPA Compliance

Daya Sharma, Ph.D.



Jason Osborne Accelerating Science and K-12 Education Outcomes through Novel Citizen Science Methods Development



B. Campbell

Floating Speck, Gerard Manley

Monica's Apples, The Hopkins, Elijah-John the Baptist, Gideon's Fleece, The Ghost Melchizedek, Billy the Kid's Last Dance



Quintin Smith, Ph.D. Oral presentations judges chair











Neeraj A. Kumar, Ph.D., NCS

Alan Peiris, M.D.

rgavi Kola, M.D.

WORKSHOPS OPENED DURING RESEARCH FORUM

- 1. Biofilm Growth and formation(Andy West, Medical Student, Dr. Ventolini)
- 2. Novel team Building training: from the corporations to the health care (Banh, MD)
- 3. How human placenta works (Research Lab members, Dr. Schlabritz-Lutsevich)
 - 4. Community Health Education: Reproductive Education (Dr. Lisa Platner)
- 5. Diverse Applications of xCELLigence Real-Time Cell Analysis: From Bacterial Biofilms to Parasitic Worms (XCELLIGENCE, San Diego, CA)
 - 6. Frontiers in microscopy (Nikon Instruments Inc. Melville NY).
 - 7. Nutrients as medications (Kalpana Bhairavarasu, MD)
 - 8. 3D printing (Mr. Erik Wilkinson)
 - 9. Video-messages from the top scientists to the Permian Basin Research Forum (organizer Dr. Satodiya)

2018 Permian Basin Research Forum

POSTER PRESENTATIONS

Regulation of Major Facilitator Super Family Domain Containing 2A (MFSDLA) PUFA transporter by Cannabinoid Receptors in fetal endothelium. Jay English, UTPB/TTUHSC

Infertility and Cancer: A case of hidden cancers unveiled by infertility evaluation Brittany Brothers, M.D., PGYIV

Severe hypoklameia in Ogilvie's Syndrome treated with Aldosterone antagonist Sajjad Ali, M.D., PGYII

Heterotpic Interstitial Pregnancy: A Case Report Chase Patterson, M.D., PGYI

Pustular Skin Lesions in a GBS Infected Newborn: A Case Report Duy Hoang, MSIII

Improving Postpartum Thromboembolism Prophylaxis Adherence to CHEST Guidelines Christina Prednergast, D.O., PGYII

Delayed Ifosfamide Induced Encephalopathy, A Rare Presentation Abdallah Gad, M.D., PGYII

A Rare Life Threatening Complication in a Case of Acute Appendicitis Abdallah Gad, M.D., PGYII

Transient Pseudohypoaldosteronism in a 2-month old associated with urinary tract infection Jason Huang, MSIII

A successful outcome of treatment of Major Depression in Chronic Kidney Disease: A Case Report

Hiren Patel, M.D., PGYII

The relationship between NBME and OSCE scores in third-year family medicine clerkship students at Texas Tech University Health Sciences Center at the Permian Basin: 2015-2017 James Wang, M.D., PGYII

A novel mutation in a Rare Case of Infantile Idiopathic Arterial Calcification (IIAC) John Myers, MSIII

Return of the ... ILI and Influenza virus in Odessa Joshua Urteaga, M.D., PGYIII

Knowledge & Beliefs about the Permian Basin Community

Teaching the Cervical Exam: A Cost-effective simulation Lyndsay Rodriguez, M.D., PGYIII

Optimization of Constipation and Management in Nursing Home Residents: A Quality Improvement Initiative Myrna Z. Bosques, M.D.,

Can an over the counter supplement get you in the ICU? Rami Baraseh, M.D., PGYII

Borderline tumor in a second trimester pregnancy: A pictorial essay

April Riley, D.O., PGYIV

Association of Short Term Mortality and Hyperuricemia in Patients with Stemi Sajjad Ali, M.D, PGYII

Posttraumatic Stress Disorder and Depression Symptom Severities are Differentially Associated with Hippocampal Subfield Volume Loss in Combat Veterans Ritvij Satodiya, M.D., PGYII

HELLP! Lives in Danger: A Case of Preeclampsia complicated by hemorrhagic stroke Amanda Stuelpnagel, M.D., PGYII

Evaluation of Term Neonates born to Mothers without or with limited prenatal care Tina Thai, D.O., PGYI

Comparative use of piperacillin/tazobactam versus meropenem in patients with sepsis secondary to pneumonia requiring empiric broad-spectrum coverage Timothy Carder, M.D., PGYII

A Case of Posterior Reversible Encephalopathy Syndrome Associated with Sepsis Orlando Garner, M.D, PGYII

Handheld Raman Spectroscopy (RS) Device as a point of care diagnostic tool Suheung Lee, MS $\ensuremath{\mathsf{IV}}$

Type I Chiari Malformation Presenting in an Adult Orlando Garner, M.D., PGYII

Alfredo Iardino, M.D., PGYII

Killer Looks: Cardiomyopathy Induced by Anabolic Andogenic Steroid Abuse Orlando Garner, M.D., PGYII

A Common Presentation of an Uncommon Tumor Austin Barnes, M.D., PGYI

Hysterotomy Scar Ectopic Managed with a Fabricated Vaginal Needle Guide and Direct Injection of the Gestational Sac Daniela Pnio, M.D., PGYII

Effect of Race and Parity on Breast Feeding Rates in West Texas Megan Clapp, MSIII

Not to be judged:

Optic Tissue Clearing in Combination with perfusion and immunofluorescence for placental vascular imaging Maira Carrillo, PhD

Villous Vascular Tree 3D Morphology of Ex Vivo Perfused Human Placental Cotyledon Marcel Chuecos, B.S.

Maternal Nutrient Restriction Augments Fetal Corical Endocannabinoid 2-Arachidonovlglycerol (2-AG) Pathway

Stanford MEDICINE

Stanford Department of Pediatrics Funded Visiting Clerkship for **Underrepresented Minority Medical** Students

Eight funded visiting clerkship positions in general pediatrics and pediatric subspecialties will be available at the Lucile Packard Children's Hospital Stanford (LPCH) from August through November for qualified applicants from backgrounds underrepresented in medicine. For more information, please visit our URM

- · Housing accommodations will be provided at no additional cost.
- Each student will be paired with a faculty member that will serve as a mentor and advisor.
 Each student will be given the opportunity to have a personal meeting with the Pediatric Residency.
- Each student will be paired with an URM resident who will introduce them to the Stanford Medical School/Center diversity community and its resources.
- Each student will have the option of interviewing at the end of the block to avoid a return trip

Applicants must be from groups underrepresented in medicine (URM) as defined by the AAMC to include "..those racial and ethnic populations that are underrepresented in the medical profession relative to their numbers in the general population." https://www.aamc.org/initiatives/urm/. · Applicants must:

- Complete the Stanford Clinical Opportunity for Residency Experience (SCORE) application form
- Provide a personal statement discussing career goals
- Provide one letter of recommendation, preferably from a pediatric attending
- Provide a Curriculum Vitae
- Provide an official medical school transcript

• The application deadline is **April 13**, and acceptance notices will be sent the following week Applicants not selected for the funded sub-internship can be, if interested, entered into the general pool of applicants for unfunded visiting clerkships at Stanford Pediatrics.

How to Apply

Visit the SCORE at https://med.stanford.edu/clerkships/score-program/to-apply.html to upload your

Good News: We now have an institutional fellowship subscription to BMJ Case Reports.

BMJ Case Reports

The Texas Perinatal Association and TTUHSC-El Paso Department of Pediatrics announce the $10^{th} \ Annual$ Spectrum of Healthcare from Mother to Child Conference Friday April 27, 2018

For more information, please see the attached information or contact Jesia Boykin in the Office of Continuing Medical Education at TTUHSC PLFSOM, 915.215.4881 or jesia.boykin@ttuhsc.edu.

We now have an institutional fellowship subscription to BMJ Case Reports. This means faculty, staff and students can publish with them without paying additional fees or signing up as an individual

From Eric Wilkinson (Library Director):

In order to publish with BMJ Case Reports, they'll need a fellowship code. Paul has already added it to our library resources passwords page. People need to use their eraider username and password to get there because we can't post it publicly. I created a short libguide for the time being just to give more info: https://ttuhsc.libguides.com/bmjcasereports

The Gold Rush entry for BMJ Case Reports links to this LibGuide. This LibGuide links to both the passwords page (for the fellowship code) and a PDF User Guide that BMJ provided.



TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

School of Medicine

Collaborative Research Seed Grant Program 2018

Nature of Projects:

- Any area of research.

 This grant program is available to faculty on all SOM campuses
- Projects must demonstrate a collaborative research initiative between one or more basic scientist and one or more clinical scientist

Amount: Up to 8 grants will be approved with funding up to \$20,000 each for a one-year project to support the preliminary or pilot phase of scientific projects, not to supplement funding already secured. (No salary support for the principal investigators will be provided. Additionally, funding may not be used for travel, renovations, society membership dues, large capital purchases, computers/software, entertainment costs, office supplies/furniture/equipment.)

Seed grant submissions will be due May 1, 2018. Deadline for grant applications: May 1, Seed grant submissions should include the following o Abstract - 1 page o Specific Aims - 1 page o Introduction, background, research design and methods - up to 4 pages o Specific role for each principal investigator - 1 page o NIH Bio-sketch for each principal investigator - up to 5 pages o A detailed budget with brief justification - 1 page (allowable items: research supplies, animal costs, part-time personnel, etc.) o Other support: list all current and pending extramural support for the last three years, include results from previous SOM seed g no limit Seed grant submissions that demonstrate a preliminary or pilot phase of scientific projects will be given prior Seed grant submissions that demonstrate a strong possibility for extramural funding will be given priority. Jannette Dufour, Ph.D. Associate Dean for Research Please note the following research/scholarship related opportunities: BBA Molecular Basis of Disease - special topic on Stem Cells: Dr. P. Hemachandra Reddy is bringing a special topic 'Stem Cells and Their Applications to Human Diseases as a guest editor in BBA Molecular Basis of Disease. He is looking for potential contributors. Please let Dr. Reddy know, if you and your colleagues, young faculty/senior postdocs, in your department are interested to contribute to this special topic. It is a great opportunity to get a publication in BBA Molecular Basis of Disease (impact factor is 5.47). The Department of Defense (DOD) Congressionally-Directed Medical Research Program (CDMRP) has started to release pre-announcements for its fiscal year (FY) 2018 funding opportunities. The pre-announcements explain each research program, topics of interest, as well as award mechanisms. Investigators are encouraged to begin thinking about their proposals in advance of the full application instructions, which are expected in spring/summer 2018. Pre-announcements have been released for the following programs: Amyotrophic Lateral Sclerosis Research Program **Funding** Bone Marrow Failure Research Program Breast Cancer Research Program Multiple Sclerosis Research Program **Opportunities** Ovarian Cancer Research Program Peer Reviewed Medical Research Program Gulf War Illness Research Program Lung Cancer Research Program Parkinson's Research Program Peer Reviewed Cancer Research Program Peer Reviewed Orthopaedic Research Program Tick-Borne Disease Research Program Pre-announcements for each program are available at: http://cdmrp.army.mil/pubs/press/press. To subscribe for real-time updates, including additional pre-announcements and the forthcoming solicitations, visit: ramSubscription/Subscribe.htm;jsessionid=365E3297790E4328733F349F4A8FA7E5. As a reminder, CDMRP utilizes a two-tier review process: scientific merit (peer-review) and programmatic review. As with other DOD funding opportunities, programmatic review often outweighs scientific review, as DOD is a mission-based agency. CDMRP recently launched a new feedback submission feature to its website. Investigators can use the tool to submit an abstract for feedback or ask questions. Further, stakeholders now have the option to provide input on programs and process recommendations, as well as submit reviewer nominations and other eedback. The form and submission instructions are available at: http://cdmrp.army.mil/contact The Clinical Research Institute is going paperless! No more writing down or waiting for signatures to submit the work order. The CRI Work Order is now an electronic on-line form. Clinical Research Institute is going paperless To access to the CRI Work Order, all you need is your eRaider username and password. EFFECTIVE IMMEDIATELY, please use the following link to access the on-line form: https://app4.ttuhsc.edu/CRIWorkOrders. Here's what to do: 1) complete the work order (2) electronically submit it (3) the form will automatically be routed to the Principal Investigator and then the appropriate Chair and/or Dean for signatures. It is that simple! Please start using the CRI Work Order link immediately: https://app4.ttuhsc.edu/CRIWorkOrders. The CRI website has been updated with this new link and access to the paper form is no longer available. For immediate assistance, please call 806-743-4217 between 8am – 5pm or email your questions to ClinicalResearch@ttuhsc.edu CRI April Visit Cathy Lovett of the Clinical Research Institute will make her April visit to the Permian Basin campus on April 19 and 20. If you would like to meet with her on those dates, please contact lsabel.garza@ttuhsc.edu. CFP: Special Issue of Present Tense Contextualizing Care in Cultures: Perspectives on Cross-Cultural and International Health and Medical Opportunity to Kirk St.Amant, Louisiana Tech University Elizabeth L. Angeli, Marquette University publish Proposals Due: 22 May 2018 Publication Date: Spring/Summer 2019 (tentative) Overview: The interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of modern society means the exchange of health and medical communication often takes place in a process of the interconnected nature of the range of international and local contexts. The objective of such interactions is to offer effective care – or how to engage in practices designed to maintain or return individuals to a particular level of health and wellness. These exchanges, however, must often traverse a range of cultural, linguistic, and geopolitical contexts to transfer health and medical information to multiple audiences across contexts including to The healthcare professionals who provide care The public health and health literacy educators who educate others on care and caregiving The patients and populations who receive or must participate in such care To this end, care-related information must be contextualized – or adapted to address the factors affecting how care is perceived and administered in different international and intercultural contexts. This special issue focuses on identifying, understanding, and

addressing such dynamics. Objective: The purpose of this special issue is to present ideas that health and medical communicators can use to contextualize care-related. """ Sufficient and entire of care-related continues. The intensity factors that can affect the communication of carerelated information across cultures in different international, regional, and local contexts as well as present frameworks and/or approaches for engaging in such contextualization of care-related content and communication. The guest editors of this special issue invite proposals for shorter entries (i.e., 2,500 words – not including references) that provide ideas on how health and medical communicators might approach or address the process of contextualizing care-related communication and content for different cultures. Because this special issue will be published with the online journal *Present Tense*, submissions can include entries done in a variety of media. For this reason, we welcome proposals for entries that would be in video, audio, or other non-print formats. Topics: Topics of interest for this special issue include (but are not limited to) those that address the following questions: -- What cultural, linguistic, and geopolitical factors do health and medical communicators need to consider to contextualize care-related content for different cultural and national audiences? -- What strategies can health and medical communicators use to design care-related materials for the contexts in which individuals from other cultures or in other nations use them? -- How should health and medical communicators work with translators and localizers to develop care-related materials that can -- What factors should health and medical communicators consider when researching the contextualization of care-related content for audiences from other cultures? -- What steps should health and medical communicators take to collaborate with individuals in other cultures to contextualize materials for audiences from different cultures and nations? -- What strategies can health and medical communicators use to distribute care-related information via online or social media to users from other cultures or in other nations? --How can we train health and medical communicators and practitioners to communicate effectively with patients from other cultures or in other nations? Through examining questions such as these, prospective authors can advance our understanding of the dynamics affecting health and medical communication in a variety of international and intercultural contexts. Submissions: Individuals should submit a 250-300 word proposal that notes - The submitter's name and contact email The title of the proposed entry -- The overall topic/focus of the proposed article The approach or method the proposed article will take to examine this overall topic The approach or method the proposed article will take to examine this overall topic The connection of the focus and approach/method to the theme of this special issue The methods readers can use to apply ideas to health and medical communication practices If the proposed piece uses multimedia instead of/in addition to written text, include a description of the media and how it strengthens the piece In citing sources in proposals, follow MLA 8th ed. citation style. Proposals should be submitted as a .doc file emailed to the two guest editors at kirk.stamant@gmail.com and eliz Tense Special Issue Proposal." tu; the subject line of the related message should read "Present Questions on this special issue or on prospective topics and approaches for submissions should be sent to the quest editors. Kirk St.Amant and Elizabeth Angeli at both kirk.stamant@gmail.com and elizabeth.angeli@marquette.edu. TOPIC: Clinical trials in academia, one CCRC's prospective **S** CRA DATE: Tuesday, April 17, 2018 TIME: 12:00 CST* **SOCRA West Texas** LOCATIONS: Lubbock - ACR-110 *El Paso - EPAEC 212 (*11:00 AM MST) Chapter Amarillo - AMHSC 4720 SPEAKER: Nancy Swinford, RT(R), CCRC, TTUHSC- Department of Orthopedics OBJECTIVES: Describe the Clinical Trial start up process 2. Identify the important key persons and departments you will work with 3. Review a typical day in the research office RSVP to Cathy Loyett at cathy.loyett@ttuhsc.edu CE: SOCRA members have the opportunity to earn 1 CEU Contact Cathy Lovett, MSN, RN, CCRC, CCRP with any questions (<u>cathy.lovett@ttuhsc.edu</u> or 806-743-4433) Feel free to bring lunch You are invited to a research seminar series presented by the TTUHSC Garrison Institute on Aging. Seminar Title: "Arrhythmia Detection Using a Smartphone" TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER.

Seminar Presenter: Jo Woon Chong, Ph. D., M.S.

When: April 3rd 2018 Time: 12:00PM – 12:50PM

Where: TTUHSC 3601 4th Str. Room ACB 110

This will be available for TechI ink

Please RSVP to susan.thompson@ttuhsc.edu no later than Monday, April 2, at 5:00pm

For more information, call 806.743.7821



Garrison Institute on Aging

For questions or to submit an item for the research newsletter contact: Dr. Natalia Schlabritz-Lutsevich, Associate Regional Dean of Research at natalia.schlabritz-lutsevich@ttuhsc.edu or Melissa Waggoner, Senior Editor at melissa.waggoner@ttuhsc.edu