

Prize Competitions for Technology Development

Jarah Meador, Ph.D., Director of Open Innovation Programs, General Services Administration

Poster Session, Exhibits, & Networking Reception

5:00 p.m. – 6:00 p.m.

H-E-B Student Union, 1st Floor, Ballroom

BATTLEFIELD HEALTH AND TRAUMA

- 1. A Prehospital Feasibility Assessment of a Lightweight, Durable, Wearable Biosensing Platform to Improve Combat Medic Management and Triage of a Massive Casualty (MASCAL) Scenario: A Pilot Study** | Maj. Patrick Ng, M.D.; Chris Bennett; Krystal Valdez-Delgado, BSN, R.N.; Maria Castaneda; Dylan Rodriguez; Shelia Savell, Ph.D.; Allyson Mireles, Ph.D., USAF 59th Medical Wing; Krishna Constantino, M.D., USA MEDCOM
- 2. Acute Management of Hemodynamically Unstable Patients with Pelvic Ring or Acetabular Fractures: A Comparison of Angioembolization and Preperitoneal Pelvic Packing** | Aaron Singh; Travis Kotzur; Rishi Gonuguntla; Lorenzo Canseco; David Momtaz; Ali Seifi, M.D.; Case Martin, M.D., The University of Texas Health Science Center at San Antonio
- 3. Analyzing the Top Three Trauma Types in Individual Military Service Members and Veterans with PTSD** | Elizabeth Santos; Kiara Buccellato, M.A.; Tabatha Blount, Ph.D.; Casey Straud, Psy.D.; Stacey Young-McCaughan, R.N., Ph.D.; Willie Hale, Ph.D.; Kelsi Gerwell, Ph.D.; Alan Peterson, Ph.D., The University of Texas Health Science Center at San Antonio; Terence Keane, Ph.D., Boston University
- 4. Baseline Familiarity of the Joint Trauma System Clinical Practice Guidelines Amongst Anesthesia Providers at a Military Treatment Facility** | 1LT James Park, R.N.; Ashley Morris, R.N.; CPT. Nicholas RisCassi, R.N.; COL (Ret.) Thomas Ceremuga, Ph.D., United States Army Graduate Program in Anesthesia Nursing; MAJ. David Gisla, AN, DNP; MAJ. David Robinson, AN, DNAP; LTC (Ret.) Paul Jones, DNAP; James Aden, Ph.D., Brooke Army Medical Center
- 5. Biomarkers of Endothelial Activation Detected After Blast and Radiation Exposure** | Whitney Greene, Ph.D.; Jeanine Badrak; Jemima McCluskey; Cassandra Niemeyer; Michael Urban, Ph.D., United States Army Institute of Surgical Research
- 6. Efficacy of Stop the Bleed Curriculum in Young Adolescents** | Abigail Johnson; Lorenzo Canseco; Kajal Bhakta, Pharm.D.; Kirk Evoy, Pharm.D., The University of Texas Health Science Center at San Antonio; Shelby Humpert, Pharm.D.; Sorina Torres, Pharm.D., The University of Texas at Austin; Tataka Perry-Johnson, R.N., University Health System
- 7. Hemodynamic Trends During Air Transport of Critically Ill Combat Wounded with Brain Injury** | Maj. William Davis, M.D.; Kimberly Medellin, BSN, R.N.; Jule Cutright, BSN, R.N.; Allyson Arana, Ph.D.; Maj. Patrick Ng, M.D.; Shelia Savell, Ph.D., R.N., USAF 59th Medical Wing; Col. Richard Strilka, M.D.; Lt. Col. Derek Sorensen, M.D., 711 Human Performance Wing; Lt. Col. Joseph Maddry, M.D., US Army Institute of Surgical Research

- 8. Optic Nerve Sheath Diameter for Automated Point of Care Testing of Increased Intra-Cranial Pressure by Sonography (OPTICS)** | Ashley Barasa, M.D.; MAJ. John Hunninghake, M.D.; CAPT. Tyler Campbell, D.O.; Brittany Daley; Marisol Resendiz, Ph.D.; COL. Michael Morris, M.D., Brooke Army Medical Center
- 9. Regulation of Assembly Status and Activity of the Proteasome as a Non-toxic Way to Mitigate Military Relevant Muscle Atrophy** | Paweł Osmulski, Ph.D.; Maria Gaczyńska, Ph.D., The University of Texas Health Science Center at San Antonio; Jonathan Bohmann, Ph.D., Southwest Research Institute; Stanton McHardy, Ph.D., The University of Texas at San Antonio; Jetze Tepe, Ph.D., Michigan State University
- 10. Systematic Multiplex Cytotoxicity Screening for Future Cytotoxicity Evaluation in Developing Small Molecules for Rapid Hemorrhage Control and Patient Stabilization in Combat** | Dena Norouzi; Shauna Hill, Ph.D.; Kameel Zuniga, Ph.D.; Chester Hutcheson, Ph.D., USAF 59th Medical Wing; Amber Nagy, Ph.D., Texas Biomedical Research Institute
- 11. Wearable, Continuous, Non-Invasive Blood Pressure Monitor for Use During Prolonged Field Care** | Xina Quan, Ph.D.; Weyland Leong; Keith Drake, Ph.D.; Junjun Liu, Ph.D., PyrAmes Inc.; Thomas Roxlo, Ph.D., Naval Medical Research Unit - San Antonio; Lamia Soghier, M.D., Children's National Health System; R. Brandon Hunter, M.D., Texas Children's Hospital; Rodica Turcu, M.D., Tufts Medical Center; Kamran Yusuf, M.D., University of Calgary; Anoop Rao, M.D., Lucile Packard Children's Hospital at Stanford; Matt Dalton, Ph.D., Air Force Research Laboratory

BRAIN & MENTAL HEALTH

- 12. A Single-Session, Group-Based Intervention for Sleep: Is it Enough?** | Samuel Alex; Capt. Nicholas Moorehead; Capt. Michael Scharf; Maj. Andrea Krunnfusz, Ph.D., Wilford Hall Ambulatory Surgical Center
- 13. Comparative Analysis of Mirna Expression Profiles from Brain and Peripheral Tissues** | Emily Shrimpton; Chris Ayo; Emma Dalan; Melanie Carless, Ph.D., The University of Texas San Antonio; Mark Kos, Ph.D., The University of Texas Rio Grande Valley
- 14. Comprehensive Approach to Investigate Cytoskeleton Filaments in Physiological and Pathological Conditions** | Annitta George; Marcelo Marucho, Ph.D., The University of Texas at San Antonio
- 15. Data-Driven Development of a “Full Continuum of Resilience” to Understand, Detect, and Prevent Suicide among United States Military Service Members** | Samantha Lie-Tjauw; Hannah Foster; Alexandra Trani, Ph.D., Georgia Tech Research Institute
- 16. “Epileptoconomics,” The Futurist Cost to Live in Space: Economics of Epilepsy Hospitalizations in the United States During the Past Three Decades** | Shwetha Menon; Carlos Garcia, M.D.; Margaret Moran, M.D.; Ali Seifi, M.D., The University of Texas Health Science Center at San Antonio
- 17. Expanding and Standardizing Mental Health Screening for All Brooke Army Medical Center Pediatric Subspecialty Clinics** | CPT. Victoria Cocozza, D.O.; CPT. Lydia Sickbert, M.D.; CPT. Tim Kenny, D.O.; LTC. Zachary Turner, M.D.; Lt. Col. Kevin Pieroni, M.D.; Tamara Passut, R.N.; Maj. Dimas Espinola, M.D., Brooke Army Medical Center