



12

Ongoing
Studies



30+

Collaborators



\$20.3M

Current Active Funding

PERFORMANCE CAPABILITIES

AREVA is program and laboratory servicing nine combat casualty care-relevant research grants carried out at prolonged critical care timelines. AREVA executes benchtop science and ex vivo experiments up to 24 hours duration in a dedicated plug-and-play extracorporeal circulation laboratory. AREVA performs large animal trauma studies in anesthetized animals up to 96 hours of round-the-clock intensive care, carried to human standards of care. With a state-of-the-art coagulation laboratory and dedicated clinical diagnostic laboratory tools and point-of-care devices, AREVA can perform all phases of study from concept design through device prototype development or testing of novel therapeutic interventions and pre-FDA data submission with the option of GLP certification culminating in clinical trials.

combat casualty care

AREVA RESEARCH INSTITUTE
& INNOVATION CENTER, A
PROGRAM OF THE GENEVA
FOUNDATION

AUTONOMOUS REANIMATION AND EVACUATION



RESEARCH INSTITUTE & INNOVATION CENTER

A PROGRAM OF THE GENEVA FOUNDATION

Contact

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Website

genevausa.org/programs/AREVA

AREVA is available for government funded and private company funded research. AREVA is actively looking for scientific partnerships.

AUTONOMOUS REANIMATION AND EVACUATION



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AREVA

RESEARCH INSTITUTE &

INNOVATION CENTER

A Program of the Geneva Foundation

genevausa.org/programs/areva

PRIORITIZING TRANSLATIONAL RESEARCH

AREVA Research Institute & Innovation Center

Program Mission: To enable research-to-practice translation of novel life-saving interventions in critical care via performance of clinically relevant translational trauma models followed by pre GLP and GLP testing clinical trials.



AREVA has a strong record of successful collaborations with universities, companies, government agencies, clinical care teams, and industry leaders at all phases of research.

AREVA prioritizes translational research focusing on combat-relevant trauma and novel critical care interventions during care at ground level and high altitude, using a multi-disciplinary physician-led research team. Performance of critical care studies at various altitudes enables AREVA to study all aspects of combat casualty care from expeditionary to various form of evacuation of casualties.

FOCUS ON TRANSLATIONAL
RESEARCH THAT ADDRESSES
COMBAT-RELEVANT TRAUMA AND NOVEL
CRITICAL CARE INTERVENTIONS

We want to disruptively improve medical care for critically injured combat casualties and civilians by application of innovative technology and treatment platforms.



PROGRAM TEAM

About Us

The AREVA team is based at Brooks City Base San Antonio, TX. Additional team members include Laboratory Manager Daniel Wendorff and Research Coordinator Brendan Beely, RRT.



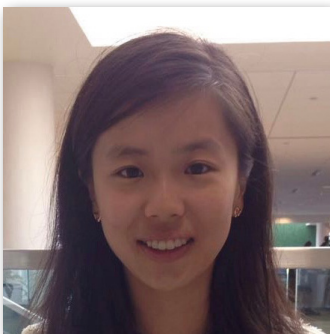
Andriy Batchinsky, MD
Founder and Director, AREVA
E: abatchinsky@genevausa.org

Dr. Batchinsky is a general surgeon by training and a translational scientist by passion. He has a special interest in minimally invasive wearable and expeditionary extracorporeal life-support (ECLS) for treatment of lung and multiorgan failure; resuscitation of patients with massive severe combined injuries and exsanguination using modern ECLS and developing biologically friendly heparin-free ECLS.



Teryn Roberts, PhD
Principal Investigator, AREVA
E: troberts@genevaUSA.org

Dr. Roberts began her interest in military medicine and translational research at the start of her graduate studies in 2014 at the University of South Florida. Dr. Robert's current research focus with AREVA includes the development and assessment of novel biocompatible materials for ECLS, as well as the effects of ECLS on coagulopathy and endothelial damage following trauma.



Yanyi Zang, PhD
Co-Investigator, AREVA
E: yzang@genevaUSA.org

Dr. Zang started biomedical engineering-related research when she was an undergraduate student. During the third year of her PhD program she collaborated with Dr. Batchinsky's translational research team. Her current research interests are protein folding/unfolding/aggregation mechanism on the surfaces of ECLS components and injury-related biomarker development.



Antoine Persello, PhD
Co-Investigator, AREVA
E: epersello@genevaUSA.org

Dr. Persello began his research on acute heart failure and multi-organ dysfunction caused by systemic infection. During his PhD program he specialized in translational and preclinical biomarker research and testing new systemic pharmacological approaches to treat or prevent organ dysfunction consecutive to cardiac surgeries, ECLS and septic shock. Dr Persello also brings small and large animal ICU studies to AREVA.



George Harea
PhD Candidate, AREVA
E: gharea@genevaUSA.org

George joined Dr. Batchinsky's translational research team in 2015, followed by joining The Geneva Foundation as a research technician in 2017. His current research interests at AREVA focus on the development and application of ECLS devices, including low-flow organ perfusion and portable applications. George is currently pursuing his doctoral degree in Biomedical Engineering through the University of Texas at San Antonio.



Wendy Tawater
Administrative Point of Contact, AREVA
E: wtawater@genevaUSA.org

Mrs. Tawater has extensive experience in grants and contracts administration and 15 years in international project management. She leads all financial and administrative efforts for AREVA and serves as the primary point of contact for business related matters.

Reducing Mortality In Combat Casualties

AREVA's Unique Research Areas

AREVA's current focus is on wearable medical solutions, polytrauma, critical care, extracorporeal life support, autonomous integrated critical care systems for sustainment of life during ground and aeromedical manned and unmanned evacuation of critically ill.



SMALL &
LARGE ANIMAL
RESEARCH



POINT OF
INJURIES
INTERVENTIONS



POINT OF
CARE
TESTING



EX-VIVO &
IN-VIVO
RESEARCH



SELECTIVE
ORGAN
PERFUSION



ALL FORMS
OF ECLS



ANTICOAGULATION
RESEARCH



INFECTION &
INFLAMMATION
RESEARCH



PRE-CLINICAL
MULTI DAY STUDIES



PRE-CLINICAL &
GLP RESEARCH



CLINICAL
TRIALS



COMBAT RELEVANT
RESEARCH

MECHANISTIC BASIC SCIENCE

BENCHTOP TESTING & VALIDATION

PRECLINICAL TESTING IN COMBAT
RELEVANT MODELS

HUMAN CLINICAL TRIALS