

AUTM Partnering Forum

Infectious Disease and Global Health Partnering Forum

Technologies represented: Updated on 10/12/18

Antibody		
Technology Title	Organization	Organization Contact
Anti-Fungal Vaccine And Antibody Treatment	LSU Health Sciences Center New Orleans	Robert J. Brown
Novel Monoclonal Antibodies against Neospora Caninum	UCLA	Lukasz Kowalik
Assay		
Technology Title	Organization	Organization Contact
In Vitro Screening Method For Characterization Of Macrophages Activation Responses To Environmental Stress (copy & paste link in browser: https://www.flintbox.com/public/project/51475/)	LSU A&M	Robert J. Brown
D-1113: Serotype discrimination biomarkers to distinguish virulent salmonella strains	Texas Tech University Office of Research Commercialization	William J. Jones
D-1406: Development of Virus like particle (VLP) vaccine and reporter assay for ZIKA virus	Texas Tech University Office of Research Commercialization	William J. Jones
PCR-Free Ultrasensitive Hiv And Other Virus Quantitation Device	UCLA	Lukasz Kowalik
Enhanced Fluorescence Readout And Reduced Inhibition For Nucleic Acid Amplification Tests	UCLA	Lukasz Kowalik
Identification of Sortases and Methods of Use	UCLA	Lukasz Kowalik
Enhanced Endotoxin Detection: New Advantages in Liquid Crystal Assays for Gram-Negative Pathogens	Wisconsin Alumni Research Foundation	Joshua Carson

Biologic		
Technology Title	Organization	Organization Contact
An Engineered Bacterial Strain that Reduces Vancomycin-Resistant Colonization of the GI Tract	Medical College of Wisconsin	Kevin Boggs
Biomarker		
Technology Title	Organization	Organization Contact
Mosquito Exposure Biomarker (copy & paste link in browser: https://www.flintbox.com/public/project/51498/)	LSU A&M	Robert J. Brown
Biomarkers To Predict Rsv Severity In Infants (copy & paste link in browser: https://www.flintbox.com/public/project/51474/)	LSU A&M	Robert J. Brown
A Prognostic Biomarker For Coccidioidomycosis	UCLA	Lukasz Kowalik
Blood Protein Biomarkers for Detection of Colon Cancer	Wisconsin Alumni Research Foundation	Joshua Carson
Predicting Glucoregulatory Dysfunction	Wisconsin Alumni Research Foundation	Joshua Carson
Cell/Gene Therapy		
Technology Title	Organization	Organization Contact
Method For Delivering Rna To Neurons To Treat Herpes Infections	LSU Health Sciences Center New Orleans	Robert J. Brown
Adenovirus-Based Gene Therapy (copy & paste link in browser: https://www.flintbox.com/public/project/51497/)	LSU A&M	Robert J. Brown
D-1097: Conditional cytotoxic gene therapy vector for selectable stem cell modification for anti HIV gene therapy	Texas Tech University Office of Research Commercialization	William J. Jones
D-1356: Selectable stem cell modification for anti-HIV gene therapy using transient cell surface marking of modified cells using Modified CD4 molecule (CD4mod)	Texas Tech University Office of Research Commercialization	William J. Jones
Polymer Coating for Cell Culture Substrates	Wisconsin Alumni Research Foundation	Joshua Carson
Precise gene editing using nonviral nanoparticles	Wisconsin Alumni Research Foundation	Joshua Carson

Diagnostics		
Technology Title	Organization	Organization Contact
Brucellosis (copy & paste link in browser: https://www.flintbox.com/public/project/51490/)	LSU A&M	Robert J. Brown
Biomarkers To Predict Rsv Severity In Infants (copy & paste link in browser: https://www.flintbox.com/public/project/51474/)	LSU A&M	Robert J. Brown
Zika, Dengue, Chikungunya Viruses (copy & paste link in browser: https://www.flintbox.com/public/project/51498/)	LSU A&M	Robert J. Brown
Infectious Diagnostic Pathology In Horses (copy & paste link in browser: https://www.flintbox.com/public/project/51491/)	LSU A&M	Robert J. Brown
Rickettsial Antigens As A Tool For Diagnostics And Vaccine Development (copy & paste link in browser: https://www.flintbox.com/public/project/51482/)	LSU A&M	Robert J. Brown
D-1072: Microdevice for Cell Separation Based on Activation Phenotype (sepsis detection)	Texas Tech University Office of Research Commercialization	William J. Jones
A Novel Rapid and Highly Sensitive Cell Based System for the Detection and Characterization of HIV	UCLA	Lukasz Kowalik
DNA Nanotechnology for Quick and Sensitive Detection of Nucleic Acids in Point-of-Care (POC) Diagnosis Applications	UCLA	Lukasz Kowalik
Label-Free Digital Bright Field Analysis of DNA Amplification	UCLA	Lukasz Kowalik
One-Step DNA Extraction from Dried Blood Spots for Newborn Screening	Wisconsin Alumni Research Foundation	Joshua Carson
Field Test for Mycobacterial Infections	Wisconsin Alumni Research Foundation	Joshua Carson
Drug Delivery		
Technology Title	Organization	Organization Contact
Antimicrobial Pyridinohydrazide And Hydrazomethylpyridine-Based Agents	LSU Health Sciences Center New Orleans	Robert J. Brown

D-0884: Immunomodulation Using Spores and Pollen Grains	Texas Tech University Office of Research Commercialization	William J. Jones
Specific Delivery of Rifampin to Sites of Tuberculosis Infection	UCLA	Lukasz Kowalik
Activating HIV Latency Using Drug Encapsulated Nanoparticles	UCLA	Lukasz Kowalik
PolyProtek: Platform for Delivering and Stabilizing Therapeutic Biologics, Vaccines, and Industrial Enzymes	UCLA	Lukasz Kowalik
Approach For Efficient Protein Incorporation Into Recombinant Vaults	UCLA	Lukasz Kowalik
Hydrogel-Based Vaccine Delivery Platform(VacSIM)	University of Georgia	Michelle Booden
Enhanced Drug Delivery Across the Blood-Brain Barrier: pH-Dependent Antibodies Targeting the Transferrin Receptor	Wisconsin Alumni Research Foundation	Joshua Carson
Perivascular Drug Delivery System Inhibits Restenosis	Wisconsin Alumni Research Foundation	Joshua Carson
Drug Discovery		
Technology Title	Organization	Organization Contact
Broad Anti-Herpesviral Activity Of A-Hydroxytropolones (copy & paste link in browser: https://www.flintbox.com/public/project/51485/)	LSU A&M	Robert J. Brown
Pre-clinical, Non-Human Primate Model of Pulmonary Arterial Hypertension	University of Georgia	Michelle Booden
Synthesis of Endoperoxide from a Diene and Molecular Oxygen in the Presence of a Photocatalyst	Wisconsin Alumni Research Foundation	Joshua Carson
Imaging		
Technology Title	Organization	Organization Contact
Ophthalmic Photothermal Optical Coherence Tomography Apparatus	Wisconsin Alumni Research Foundation	Joshua Carson
Rare/Orphan Diseases		
Technology Title	Organization	Organization Contact
Zika Diagnostics (copy & paste link in browser: https://www.flintbox.com/public/project/51498/)	LSU A&M	Robert J. Brown

Repurposed Drug		
Technology Title	Organization	Organization Contact
Research Tools		
Technology Title	Organization	Organization Contact
Anaplasma Platys Isolate (copy & paste link in browser: https://www.flintbox.com/public/project/51476/)	LSU A&M	Robert J. Brown
Mouse And Guinea Pig Models For Cytomegalovirus And Herpes Simplex Virus Infections (copy & paste link in browser: https://www.flintbox.com/public/project/51492/)	LSU A&M	Robert J. Brown
Infectious Diseases Of Laboratory Animals (copy & paste link in browser: https://www.flintbox.com/public/project/51494/)	LSU A&M	Robert J. Brown
Pathomechanical Analysis Of Equine Navicular Disease (copy & paste link in browser: https://www.flintbox.com/public/project/51496/)	LSU A&M	Robert J. Brown
Plant And Shellfish Bacteria: Gram-Negative Genus Vibrio, Gram-Positive Genus Streptomyces (copy & paste link in browser: https://www.flintbox.com/public/project/51505/)	LSU A&M	Robert J. Brown
Nagz Knockout E. Coli Strain For Production Of O-Glcnac-Modified Proteins (copy & paste link in browser: https://www.flintbox.com/public/project/51508/)	LSU A&M	Robert J. Brown
Macrocyclic Lactone Resistant Strains Of Dirofilaria Immitis (copy & paste link in browser: https://www.flintbox.com/public/project/51484/)	LSU A&M	Robert J. Brown
High Throughput Digital Cell Quantification Of Immune Cell Subsets Via Epigenetic Markers	UCLA	Lukasz Kowalik
Improved Ref Nuclease for Site-Specific DNA Cleavage	Wisconsin Alumni Research Foundation	Joshua Carson
Research Tool for Protein Conformation Analysis	Wisconsin Alumni Research Foundation	Joshua Carson
Methods for High-Throughput Single-Cell Transcriptional Profiling	Wisconsin Alumni Research Foundation	Joshua Carson

Respiratory		
Technology Title	Organization	Organization Contact
Biomarkers To Predict Rsv Severity In Infants (copy & paste link in browser: https://www.flintbox.com/public/project/51474/)	LSU A&M	Robert J. Brown
Adapted Rhinovirus C for Maximum Virus Yield	Wisconsin Alumni Research Foundation	Joshua Carson
Small Molecule		
Technology Title	Organization	Organization Contact
Novel Small Molecule Inhibitors of Endosomal Trafficking for the Treatment of Viral and Bacterial Infection	UCLA	Lukasz Kowalik
Novel Inhibitor of HIV Replication	UCLA	Lukasz Kowalik
Small Molecules that Mimic IFN-Gamma-Mediated Endothelial Cell Activation	UCLA	Lukasz Kowalik
Novel Small Molecules Targeting Drug-Resistant Acinetobacter	University of Georgia	Michelle Booden
New and More Potent UGM Inhibitors for Treating Tuberculosis, Other Microbial Infections	Wisconsin Alumni Research Foundation	Joshua Carson
Small Molecule Inhibitors of Encephalitic Alphaviruses	Wisconsin Alumni Research Foundation	Joshua Carson
Software		
Technology Title	Organization	Organization Contact
Infectious Disease Ecology And Population Demography (copy & paste link in browser: https://www.flintbox.com/public/project/51503/)	LSU A&M	Robert J. Brown
Climate Based Parasite Forecast System (copy & paste link in browser: https://www.flintbox.com/public/project/51483/)	LSU A&M	Robert J. Brown
Target		
Technology Title	Organization	Organization Contact
Lyme Disease Biomerkers And Protein Targets (copy & paste link in browser: https://www.flintbox.com/public/project/51487/)	LSU A&M	Robert J. Brown
Innate Immunity In Pneumonic Sepsis (copy & paste link in browser: https://www.flintbox.com/public/project/51488/)	LSU A&M	Robert J. Brown

Identify New Drug Targets And Develop Novel Anti-Hsv Therapies For Herpes Simplex Virus (Crispr/Cas9) (copy & paste link in browser: https://www.flintbox.com/public/project/51485/)	LSU A&M	Robert J. Brown
Innate Immunity, Dendritic Cells And Respiratory Viruses. Host Response To Respiratory Syncytial Virus And Human Metapneumovirus (copy & paste link in browser: https://www.flintbox.com/public/project/51489/)	LSU A&M	Robert J. Brown
Toxoplasmosis (copy & paste link in browser: https://www.flintbox.com/public/project/51493/)	LSU A&M	Robert J. Brown
Herpesviral Protein Target Discovery (copy & paste link in browser: https://www.flintbox.com/public/project/51495/)	LSU A&M	Robert J. Brown
Evaluation Of Changes To The Rickettsia Rickettsii Transcriptome During Mammalian Infection (copy & paste link in browser: https://www.flintbox.com/public/project/51486/)	LSU A&M	Robert J. Brown
Anti-Oxidant Response Modifiers as Treatment for HIV-Associated Neurocognitive Disorder	UCLA	Lukasz Kowalik
Highly Selective Inhibition of Cancer Cell Proliferation with IQGap1-derived Short-length Peptides Via Blockade of P13, 4, 5 P3 Synthesis and Signaling	Wisconsin Alumni Research Foundation	Joshua Carson

Therapeutics

Technology Title	Organization	Organization Contact
Anti-Microbial Thrush	LSU Health Sciences Center New Orleans	Robert J. Brown
Anti-Microbial Thrush	LSU Health Sciences Center New Orleans	Robert J. Brown
Flouride Anti-Microbial	LSU Health Sciences Center New Orleans	Robert J. Brown
Flouride Anti-Microbial	LSU Health Sciences Center New Orleans	Robert J. Brown
Flouride Anti-Microbial	LSU Health Sciences Center New Orleans	Robert J. Brown

Flouride Anti-Microbial	LSU Health Sciences Center New Orleans	Robert J. Brown
Compositions Comprising Herpes Simplex Virus-1 For Use In Methods Of Treating And Preventing Cancer (copy & paste link in browser: https://www.flintbox.com/public/project/51477/)	LSU A&M	Robert J. Brown
Herpes Simplex Virus 1 (Hsv-1)-Mediated Oncolytic Virotherapy For Treating Ovarian Cancer (copy & paste link in browser: https://www.flintbox.com/public/project/51478/)	LSU A&M	Robert J. Brown
Virus Rnai Therapy (copy & paste link in browser: https://www.flintbox.com/public/project/51504/)	LSU A&M	Robert J. Brown
D-0885: RNAi-based New Therapeutic Strategies against Anthrax	Texas Tech University Office of Research Commercialization	William J. Jones
D-1184: Targeted-delivery of small interference RNA against anthrax	Texas Tech University Office of Research Commercialization	William J. Jones
D-1591: New treatment strategies against anthrax by interfering critical host factors	Texas Tech University Office of Research Commercialization	William J. Jones
D-1536: Using glycoside hydrolases to treat biofilm-associated infections	Texas Tech University Office of Research Commercialization	William J. Jones
Novel Antiviral Compounds to Treat Enterovirus Infections	UCLA	Lukasz Kowalik
Preparation and Activity of Novel Photosensitizer Acting as a Broad Spectrum Antiviral Agent Against Enveloped Viruses	UCLA	Lukasz Kowalik
Activating HIV Latency using Drug-Encapsulated Nanoparticles	UCLA	Lukasz Kowalik
Azuvirins: Novel Peptides with Antiviral and Antineoplastic Potential	UCLA	Lukasz Kowalik
Inhibitors Of Zika Virus	UCLA	Lukasz Kowalik
Antibiotic-Peptide Conjugates With Anti-Microbial Efficiency Against Chronic Infections	UCLA	Lukasz Kowalik

Broad-spectrum Antimicrobial Peptide for the Treatment of Acne and Skin Cancer	UCLA	Lukasz Kowalik
New Broad-Spectrum Antibiotics	Wisconsin Alumni Research Foundation	Joshua Carson
Treating Iron Overload with Block Copolymers	Wisconsin Alumni Research Foundation	Joshua Carson
Vaccine		
Technology Title	Organization	Organization Contact
Viral Vaccine Against Malaria (copy & paste link in browser: https://www.flintbox.com/public/project/51479/)	LSU A&M	Robert J. Brown
Vaccine Against Genital Herpes Simplex Infections (copy & paste link in browser: https://www.flintbox.com/public/project/29220/)	LSU A&M	Robert J. Brown
Chimeric Vaccine Against Fungal Infections	LSU Health Sciences Center New Orleans	Robert J. Brown
Live Attenuated Vaccines For Francisella Noatunensis In Warm Water Fish (copy & paste link in browser: https://www.flintbox.com/public/project/29525/)	LSU A&M	Robert J. Brown
Vectored Vaccine For Animal And Human Infections (copy & paste link in browser: https://www.flintbox.com/public/project/51480/)	LSU A&M	Robert J. Brown
Fish Vaccines Against Francisellosis And Brucella (copy & paste link in browser: https://www.flintbox.com/public/project/51490/)	LSU A&M	Robert J. Brown
D-0923: A New Universal Influenza Vaccine	Texas Tech University Office of Research Commercialization	William J. Jones
D-1030: Broad Spectrum Vaccine against Influenza and Anthrax	Texas Tech University Office of Research Commercialization	William J. Jones
D-1093: New live attenuated viral vaccine created by self-attenuation with species-specific artificial microRNA	Texas Tech University Office of Research Commercialization	William J. Jones
D-1508: New self-attenuated prophylactic and therapeutic vaccines against microbial pathogens such as influenza viruses	Texas Tech University Office of Research Commercialization	William J. Jones
D-1584: Multivalent Virus Like Particle vaccine against arboviruses	Texas Tech University Office of Research Commercialization	William J. Jones
Live Recombinant Tuberculosis Vaccine	UCLA	Lukasz Kowalik

Improved Immunization Strategy using Recombinant BCG Vaccines	UCLA	Lukasz Kowalik
Recombinant Tuberculosis BCG Vaccine Elicits a Highly Protective Host Immune Response	UCLA	Lukasz Kowalik
New Recombinant Tuberculosis BCG Vaccine for Immunocompromised Patients and Others	UCLA	Lukasz Kowalik
Method of Producing Novel Unmarked Recombinant Vaccine Vector for Tuberculosis	UCLA	Lukasz Kowalik
Novel Live Recombinant Booster Vaccine against Tuberculosis	UCLA	Lukasz Kowalik
Novel Vaccines against Tularemia	UCLA	Lukasz Kowalik
Safe and Potent Vaccines against Tularemia	UCLA	Lukasz Kowalik
Genome-Wide Identification of Immune Evasion Functions in a Virus	UCLA	Lukasz Kowalik
Generation of a Live Attenuated Influenza Vaccine that Elicits Broad Protection	UCLA	Lukasz Kowalik
Retrocyclins: Antiviral Circular Minidefensins that Protect Against Human Immunodeficiency Virus and Herpes Simplex Viruses	UCLA	Lukasz Kowalik
GM-CSF and IL-4 Therapy for In-situ Expansion of Dendritic Cells and Enhancement of Vaccine-Based Immunity	UCLA	Lukasz Kowalik
Prevention and Treatment of Pneumocystis Pneumonia and other Fungal Pathogens	University of Georgia	Michelle Booden
Broadly Protective HA Antigens for Seasonal & Pandemic Influenza Vaccines (Human, Bird, & Swine)	University of Georgia	Michelle Booden
Lipid A Adjuvant Platform	University of Georgia	Michelle Booden
Monovalent Dengue Vaccine	University of Georgia	Michelle Booden
High Titer Recombinant Influenza Viruses for Vaccines and Gene Therapy	Wisconsin Alumni Research Foundation	Joshua Carson
Vaccine for Fungal Infections	Wisconsin Alumni Research Foundation	Joshua Carson

Development of a Zika Virus Vaccines Using Virus-Like Particles

Wisconsin Alumni Research
Foundation

[Joshua Carson](#)