Biolocity Portfolio Status
August 2023

Category	Project or Company Name	Description	Stage of Development		
			Bench	Preclinical	Clinical
Therapeutics	CXCR4	Best-In-Class Orally Bioavailable CXCR4 Antagonists Heat Up Solid Tumors. PIs: Dennis Liotta, PhD (Emory), Eric Miller, PhD (Emory), Hayn Kissick, PhD (Emory), and John Petros, MD (Emory)	●		
	Mageia Therapies	Our team will seek to translate a therapeutic enzyme to reverse immunosuppression in solid tumors. PI: John Blazeck, PhD (GT)	●		
	NanoCliq	A vaccine candidate consisting of a virus-like particle present on the Leishmania parasite, to prevent the onset of Leishmaniasis. PI: M.G. Finn, PhD (GT)	●		
	Next-Gen 5-FU	Safer and more effective next-generation 5-FU-based therapeutics. Pis: Dennis Liotta, PhD (Emory), Eric Miller, PhD (Emory), John Petros, MD (Emory), and Nicole Pribut, PhD (Emory)	●		
	Urearetics	A novel mechanism to treat uremic pericarditis and pericardial effusions in chronic kidney disease patients by inhibiting urea transport. PI: Jeff Sands,MD (Emory)	●		
	12X	Repurposed drug to induce bone formation for spine fusion and prevention of non-union. PIs: Nick Willet, PhD (Emory), Scott Boden, MD (Emory), and Sree Sangadala, PhD (Emory)	●	●	
	Agrithera	A therapeutic strategy to overcome the pharmacological drawbacks of cannabidiol (CBD) for epilepsy using prodrugs that metabolize to CBD in the body. PI: Dennis Liotta (Emory)	●	●	
	Athena	An early-stage cell therapy company developing a mesothelin-specific chimeric antigen receptor (CAR) T cell product for the treatment of mesothelioma and other mesothelin expressing solid tumors. PI: Chrystal Paulos, PhD (Emory)	●	●	
	BioPace	RNA-based therapy for converting cardiomyocytes into a pacing phenotype to regulate heart rate. PIs: Hee Cheol Cho, PhD (Emory) and Phil Santangelo, PhD (GT)	●	●	
	Cambium Oncology	Small molecule VIP-receptor antagonist for immuno-oncology. PI: Ned Waller, MD, PhD (Emory)	●	●	
	Centizyme	Gold nanoparticle coated with target-specific catalytic deoxyribozymes therapeutic for severe asthma. PIs: Cherry Wongtrakool, MD (Emory) and Khalid Salaita, PhD (Emory)	●	●	
	IBD Therapeutic	Development of an LRH-1 agonist to target inflammation without the side effects seen with global immunosuppression. PIs: Nathan Jui, PhD (Emory) and Eric Ortlund, PhD (Emory)	●	●	
	Marpé Therapeutics	Isolated host defense peptides for the treatment of viruses, including Dengue, Influenza, Avian Flu, and Zika. PI: Joshy Jacob, PhD (Emory)	●	●	
	MetaClipse	Tumor membrane vesicles for immuno-oncology treatment of triple negative breast cancer. PI: Periasamy Selvaraj, PhD (Emory)	●	●	
	NephroDI	Small molecule drug for Nephrogenic Diabetes Insipidus, a pediatric orphan indication. PIs: Jeff Sands, MD (Emory) and Janet Klein, PhD (Emory)	●	●	
	Pyrefin	Small molecules targeting the EP2 receptor to treat chronic inflammatory diseases. PIs: Thota Ganesh, PhD (Emory) and Raymond Dingledine, PhD (Emory)	●	●	
	SaGA for Cancer Drug Discovery	Utilizes a novel isolation assay for metastatic "leader" cells in solid tumors to develop novel cancer therapeutics PI: Adam Marcus, PhD (Emory)	●	●	
	TPAM siRNA	siRNA therapeutic to stop the progression, and potentially even regress, atherosclerotic plaque formation. PI: Hanjoong Jo, PhD (Emory)	●	●	
	SIRPant	SIRPαlow engineered macrophage immunotherapy for treatment of solid tumors. PIs: Yuan Liu PhD (GSU) and Ned Waller, MD, PhD (Emory)	●	●	●
Diagnostics	Heteroresistance AST	Approach to determine antibiotic susceptibility in <2 hrs of blood culture. PIs: David Weiss, PhD (Emory) & Peter Yunker, PhD (GT)	●	●	●
	Sanguina	Quick, disposable, handheld biochemical device that provides a quantitative evaluation of anemia in less than two minutes. PI: Wilbur Lam, MD, PhD (Emory)	●	●	●
Drug Delivery	DexaPatch	Site-specific delivery of dexamethasone to the surgical site to avoid side effects of systemic steroid delivery. PIs: Adam Klein, MD (Emory), Daniel Refai, MD (Emory), & Andrés García, PhD (GT)	●		
	OZ-Link	OZ-Link's mission is to develop a generalizable delivery platform that enables the extended and precise controlled release of protein therapeutics. PI: M.G. Finn (GT)	●		
	Twice Therapeutics	Targeted gene therapy delivery to many cell types without the need to reconfigure the AAV. PIs: James Dahlman, PhD (GT) & Eric Sorscher, MD (Emory)	●		
	CorAmi	A drug delivery platform for localized delivery of therapeutic-seeded hydrogels to the pericardial space PIs: Rebecca Levit, MD (Emory) & Andrés Garcia, PhD (GT)	●	●	
	ProLymph Nano	Drug delivery technology unlocks new market opportunities by targeting the lymphatic system. PI: Susan Thomas, PhD (GT)	●	●	
Cell Mfg	Andson Biotech	A platform technology that provides accurate and low-cost quality monitoring for cell therapy bioreactors. PIs: Andrei Fedorov, PhD (GT) & Edwin Horwitz, MD (Emory)	●		
	CellFE	Cell processing and treatment technologies that will enable better manufacturing and functionalization of cell therapies. PI: Todd Sulchek, PhD (GT)	●	●	
Software & Digital Health	Bystro	A search engine for your life-sciences data. PI: Thomas Wingo, MD (Emory)	●		
	Sanicka	A clinical decision support tool to aid treatment selection and optimization for leukemia patients. PIs: Nicki Panoskaltsis, MD (Emory) & Sakis Mantalaris, PhD (GT)	●		
	AngioCloud	Cloud-based software with the selection and deployment of neurointerventional devices. PIs: Frank Tong, MD (Emory) & Alessandro Veneziani, PhD (Emory)	●	●	●
	CNS Disease Biomarkers	Diagnostic platform for pre-clinical detection and quantification of functional neurodegenerative biomarkers. PIs: Allan Levy, MD (Emory) & Nick Seyfried, PhD (Emory)	●	●	●
	Covanos	Software tool for automated quantification of Left Ventricle Fractional Flow Reserve. PIs: Habib Samady, MD (Emory) & Don Giddens, PhD (GT)	●	●	●
	Repredix	Mobile technology for detection of CHF decompensation. PIs: Gari Clifford, PhD (Emory) & Amit Shah, MD (Emory)	●	●	●
	Codoxo	Provides intelligent claims analysis to help identify, address, and mitigate payment of fraudulent healthcare billing. PI: Mustaque Ahamad, PhD (GT)	●	●	●
Devices	Cellcue Bio	3D microfluidic platform for cell therapies with improved prediction of clinical outcomes. PI: Andrés García, PhD (GT) & Wilbur Lam, MD, PhD (Emory)	●		
	Fecal Matter Processor	Device for improved and simplified processing of fecal matter for fecal transplantation therapy. PIs: Bob Taylor, MD (Emory) & Colleen Kraft, MD (Emory)	●		
	Focused Cryo	Cryoablation system with real-time temp. sensing and directionality to suggest optimal probe insertion path. PIs: Yogi Patel, PhD (Emory) & David Prologo, MD, FSIR (Emory)	●		
	Lybbie	Fully wearable breast pump that allows for hands-free pumping and improved mobility for breast-feeding mothers. PI: Andrea Joyner, MD (Emory)	●		
	Piggy-Back Heart	A self-powered heart pump that harvests native motion of the right ventricle to enhance blood flow in Fontan circulation for patients with hypoplastic left or right heart syndrome. PI: Murali Padala, PhD (Emory)	●		
	Robotic Guidewire	Robotically steerable guidewire for interventional radiology procedures. PIs: Zachary Bercu, MD (Emory) & Jaydev Desai, PhD (GT)	●		
	Sleep Monitoring Biopatch	A soft, wearable biosensor patch and accompanying software to enable athome sleep testing. PI: Woon-Hong Yeo, PhD (GT)	●		
	Nyra	A transcatheter implant that seeks to "plug" the fluid path, which is seen in patients with mitral regurgitation. PI: Murali Padala, PhD (Emory)	●	●	
	Periurethral Bulking	Device for standardizing bulking material delivery for the treatment of urinary incontinence. PI: Nail Galloway, MD (Emory)	●	●	
	TriLEN	A modified leaflet implant that can be sized for pediatric patients to repair tricuspid or atrioventricular valve regurgitation. PI: Murali Padala, PhD (Emory)	●	●	
	CameRad	Device to reduce mismatch of radiology imaging and patient identities. PIs: Pamela Bhatti, PhD (GT) & Srini Tridandapani, MD, PhD, MBA (Emory)	●	●	●
	IV Infiltration Detection	Automated detection of infiltration of IV fluid lines. PI: Omer Inan, PhD (GT)	●	●	●
	BRIJJIT	Wound closure technology to reduce formation of scars. PI: Monte Eaves, MD (Emory)	●	●	●
	Dr. NozeBest	Battery-powered suction device designed to clear nasal congestion in babies and children. PI: Steven Goudy, MD (Emory)	●	●	●
	Jackson Medical	Device to reduce the risk of endoscope-related procedure drape fires. PI: James Rains, PE (GT)	●	●	●