

**PROJECTS OF INTEREST TO THE MCGOWAN INSTITUTE FOR REGENERATIVE MEDICINE**

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Core Competencies	Projects	MEDICAL DEVICES AND ARTIFICIAL ORGANS				CELL - BASED THERAPY				BIOMATERIALS AND FUNCTIONAL TISSUE ENGINEERING			
		Artificial and Biohybrid Lungs	Liver	Heart, Blood, and Vascular Tissue	Pancreas	Central and Peripheral Nervous System	Musculoskeletal (hard and soft tissue)	Gastrointestinal and Genitourinary	Cancer	Wound Healing	Eye and Ear	Dental	Targeted Drug Delivery
Preclinical Models	Delude	Gerlach, Mazariegos, Patzer	Genovese, Kameneva, Keller, Pacella, Pinsky, Shroff, Wagner		Bowser, Gobbel	VanSwearingen, Mooney	Delude, Gilbert, Hackam	Gobbel, Kalinski, Latimer	Beckman, Dohar, Gilbert, Hackam, Hebda, Mooney, Rosen, Steed, Wells				
Biomaterials	Wagner		Badylak, DiMartino, Gawalt, Genovese, Kameneva, Keller, Sakai, Tobita, Wagner	Beckman, Russell, Wagner	Beckman, Cui, Gobbel, Kondziolka, Marra, Russell, Tyler-Kabara	Badylak, Beckman, Campbell, Kumta, Marra, Meyer, Mooney, Nettleship, Nieponice, Russell, Sfeir, Washburn, Weisz, Wu	Ogilvie, Hackam	Edington, Gobbel, Little, Kalinski, Kondziolka, Weisz	Badylak, Beckman, Hackam, Edington, Little, Manders, Mooney, Gerlach, Wagner	Charukamnoetkanok	Nettleship	Bahar, Chapman, Edington, Little, Marra, Wagner	
Bioengineering, Biotransport, Biomechanics	Borovetz, Federspiel, Hotchkiss, Kameneva	Chow, Gerlach, Monga, Patzer	Antaki, Balazs, Belle, Borovetz, Fuchs, Fujimoto, Genovese, Kadipasaoglu, Kameneva, Keller, LeDuc, Lin, Lohmann, Pinsky, Riviere, Robertson, Russell, Sacks, Schaub, Severyn, Shroff, Speziali, Teuteberg, Vorp, Wagner, Winowich, Zenker	Chow, Gerlach, Parker, Russell	Chow, Chu, C.T., Cui, Gerlach, Kim, Z. Li, Lin, Parker, Schwartz, Tyler-Kabara	Beckman, Boninger, Debski, Gharaibeh, Kumta, LeDuc, Li, Z., Mooney, Nettleship, Ogilvie, Piehler, Russell, Sfeir, Vorp, Woo	Jobe, Russell, Sacks, Vorp	Edington, Gerlach, Parker	Badylak, Brienza, Gerlach, Kameneva, Mooney, Sacks	Charukamnoetkanok, Federspiel, Lin, Roy, Wagner	Almarza, Beckman, Beniash, Chapman, Kumta, Russell, Sfeir	Edington, Kumta, Little, Marra, Russell, Sfeir, Wagner	
Cellular and Molecular Biology	Delude, Kolls, Oury	Bahary, Beer-Stolz, Bell, Cheng, DeFrances, Gerlach, Mars, Michalopoulos, Monga, Strom, Venkataramanan, Wells, Wu, Yin, Zamora, Zarnegar, Zeevi	Beer-Stolz, Bodnar, Delude, deVallejo, Genovese, Ho, McTiernan, Pitt, Salama, Vallejo, Wells, Williams	Bahary, Monga, Trucco, Whiteside	Bowser, Cui, Gobbel, Kochanek, Kondziolka, Lagenaur, Marra, Peault, Pezzone, Strick, Wang	Antaki, Blair, Campbell, deVallejo, Gharaibeh, Gorantla, Li, Y., Marra, Mooney, Pape, Phillippi, Rubin, Siegenthaler, Studer, Wells, Wu	Bahary, Delude, Genovese, Liu, McGee, Wilson	Cheng, V. Donnenberg, Edington, Gobbel, Hendricks, Ho, Kondziolka, Lagenaur, Latimer, Li, L., Lotze, Michalopoulos, Monga, Peault, Pitt, Robbins, Strom, Trucco, Wells, Whiteside, Yuan, Zeevi	Bodnar, Cummins, deVallejo, Gerlach, Hebda, Mooney, Post, Rosen, Vodovotz, Wells	Hendericks, Post, Roy, Schuman	Almarza, Beniash, Saunders, Sfeir	Bahar, Robbins	
Developmental Biology	Delude	Bahary, Gerlach, Lagasse, Monga	Bahary, Cheng, Delude, A. Donnenberg, Genovese, Huard, Keller, Meisel, Peault, Pinkus, Tobita	Bahary, Peault, Whiteside	Meisel, Pinkus	Huard, Y. Li, Sakai	Bahary, Delude, Hackam, Schatten	Cheng, A.Donnenberg, V. Donnenberg, Lagasse, Monga, Peault, Whiteside	Dohar, Gerlach, Hackam, Hebda, Mooney				
Cellular Therapeutics		Gerlach, Michalopoulos, Strom	deVallejo, Genovese, Huard, Keller, Marra, Sakai, Toma, Vorp	Trucco	Kondziolka, Marra, Tyler-Kabara	Campbell, deVallejo, Kumta, Marra, Peng, Sfeir, VanSwearingen, Wang, Woo	Huard, Hackam, Lotze, Vorp	Edington, Kondziolka, Kalinski, Michalopoulos, Strom, Trucco, Wells	Bodnar, Dohar, Gerlach, Hackam, Hebda, Wang, Wells	Charukamnoetkanok	Almarza, Kumta, Sfeir	Wagner	
Clinical Translation	Choi, Hattler, Hotchkiss, Kolls, McCurry, Rogers	Clermont, DeFrances, Demetris, Fontes, Gerlach, Lopez, Mazariegos, Ochoa, Patzer, Perimutter, Strom	An, Anderson, Clermont, DeGroff, A. Donnenberg, Fuchs, Keller, Kormos, Kreutzer, Lohmann, Luketich, Mathier, McCurry, McNamara, Pacella, Schwartzman, Shroff, Simon, Speziali, Sullivan, Teuteberg, Wearden, Williams, Winowich, Zenati	Fontes, Trucco, Whiteside	Bowser, Chu, C.T., DeKosky, Kochanek, Kondziolka, Tyler-Kabara	An, Badylak, Baer, Chu, Clermont, Constantine, Fu, Gorantla, Kang, McMahon, Nieponice, Pape, Shestak, Siegenthaler	An, Day, Delude, Docimo, Gilbert, Jobe, Lotze, McGee, Shapiro, Schatten, Whitcomb, Wilson	Choi, Day, A.Donnenberg, Edington, Faló, Glorioso, Kalinski, Kondziolka, Latimer, Lotze, Luketich, Monga, Parker, Strom, Trucco, Whitcomb, Whiteside	An, Badylak, Dohar, Edington, Faló, Gilbert, Lee, Manders, Post, Rosen, Rubin, Shestak, Steed, Wang	Charukamnoetkanok, Funderburgh, Hirsch, Post, Schuman	Sfeir	Glorioso	
Clinical Outcomes (Rehabilitation)	Dew, Hotchkiss	Dew	Dew, Holm, Pinsky		Bowser, Holm, Z. Li, Rogers	Brubaker, Cohn, Cooper, Delitto, Ding, Holm, Z. Li, Rogers, VanSwearingen		V. Donnenberg	Brienza, Brubaker, Verdolini-Martson				
Immunology	Delude	Bell	An, Badylak, Clermont, deVallejo, Fan, Kormos, McCurry, Vodovotz, Wearden			An, Angus, Badylak, Clermont, deVallejo, Vodovotz, Wearden	An, Delude, Hoffman, Kalinski, Little, Lotze, Yotov	Croisille-Peault, deVallejo, Edington, Herberman, Kalinski, Little, Lagasse, Lotze, Parker, Peault, Rima	An, Angus, Badylak, Chadam, Constantine, deVallejo, Edington, Ermentrout, Fan, Kellum, Oltvai, Puyana, Roberts, Swigon, Ta'asan, Upperman, Wisniewski			Kalinski, Little	
Gene Therapy	Kolls	Liu, Strom	London, Robbins, Toma	Trucco	Bowser, Glorioso	Huard, Kumta, Sfeir, Y. Li, Woo	Little	Billiar, Edington, Glorioso, Little, Lotze, Robbins, Strom, SunderRaj, Trucco	Hebda, Vodovotz	SunderRaj	Almarza, Kumta, Sfeir	Billiar, Glorioso, Little, Robbins	
Imaging	Beer-Stolz	Beer-Stolz	Beer-Stolz, DeGroff, Ho, Keller, Pacella, Shroff, Villanueva, Wagner	Beer-Stolz, Watkins	Kochanek, Z. Li, Lin, Watkins	Beer-Stolz, Kim, Z. Li, Robertson, Watkins	Beer-Stolz, Hackam, Lotze	Edington, Ho, Kalinski, Latimer, Lotze, Meltzer, Parker, Watkins	Beer-Stolz, Hebda, Hackam	Lin		Beer-Stolz	
Protein Design and Expression					Bowser	Russell	Delude	SunderRaj		SunderRaj		Bahar	