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RESEARCH

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BIOMEDICAL ENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

RESEARCH LABORATORIES

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LABORATORY	PROFESSOR		RESEARCH	Al and deep lea	Biomechanics	Control system	Device develop	Engineering ph	Imaging	Drug developm	Tissue enginee	Neural enginee
Gan Laboratory	Dr. Yu Gan		Machine and deep learning for biomedical image analysis									
Laboratory of Opthalmic Research Development (LORD)	Dr. Jennifer Kang- Mieler		Imaging, hemodynamics, electrophysiology and drug delivery for retinal diseases									
Translational Lung Bioengineering Laboratory	Dr. Jinho Kim		Tissue engineering for repairing diseased or damaged lung tissue									
Laboratory for NeuroInnovation	Dr. George C. McConnell		Deep brain stimulation for neural and psychiatric disease									
MOvement COntrol REhabilitation Laboratory (MOCORE)	Dr. Raviraj Nataraj	B	Control systems for user integration with rehabilitative movement devices									
Lung Microscopic Mechanics Laboratory	Dr. Carrie E. Perlman		Surface-tension-reducing therapeutic for ventilation injury in acute lung disease									
Biomineralization and Biospectroscopy Lab	Dr. William Querido		Infrared spectral imaging for elucidating bone health									
InBrain Electonics Laboratory	Dr. Ilke Uguz		Neural implants for brain-machine interfaces and neurodegenerative diseases									
Tissue Reconstruction Laboratory	Dr. Hongjun Wang		Tissue engineering, including 3D printing of bioscaffolds, and regenerative medicine									
Wang Laboratory	Dr. Shang Wang		Optical bioimaging for understanding mammalian reproduction and development									
Yu Laboratory	Dr. Xiaojun Yu		Polymeric biomaterials for tissue engineering and drug delivery									
Musculoskeletal Control and Dynamics Laboratory	Dr. Antonia Zaferiou		Biomechanics of mobility and agility for design of human-centered movement training									