K23/R33 and Supplemental DFC Biomarker Projects

Investigator(s)	Study Type	Study Name
Dr. Schmidt	K23	The Role of the Microbiome in Diabetic Foot Ulcers Substudy
Drs. Stone & Tomic-Canic	R33	Circulating Urinary MicroRNAs Biomarker Substudy
Dr. Kalan	R33	Wound Fluid RNA Microbiome-Based Biomarkers Substudy
Dr. Spiller	R33	Wound Tissue Inflammation-Related Gene Biomarkers Substudy
Dr. Roy	R33	Wound Fluid Biomarker Substudy
Drs. Niewczas & Veves	R33	Proteomic Biomarkers Prognostic for Diabetic Wound Healing Substudy
Drs. Stone, Pastar & Tomic-Canic	Supplement	Serum sRNA Composite Biomarker (human miRNA and bacterial sRNA) Prediction DFU, Amputation, Healing
Dr. Schmidt	Supplement	Optimizing Soft Tissue Ecology in Diabetic Foot Ulcers
Drs. Kalan & Spiller	Supplement	Biomarker Development Integration DFU Inflammatory Status with Wound Microbiome

DFC Internally Funded Projects

Investigator(s)	Study Name
Dr. Niewczas	Metabolomics approach towards an integrated biomarker signature of diabetic wound healing course.
Dr. Singh	Low DNA hypermethylation risk score (hMRS) of wound tissue endothelial PLCγ2 as a biomarker of healing DFU
Drs. Ghatak & Sen	GlycoRNA on plasma exosomes as a biomarker for wound chronicity and recurrence
Drs. Margolis & Gordillo	Are women at lower risk for DFU or is DFC enrollment biased?
Drs. Gurtner & Chen	Advancing Diabetic Foot Ulcer Management Through Non-Invasive Multimodal Sensing and AI Driven Predictive Modeling

Drs. Conte and Liu	Pedal artery calcification score as a predictor for wound healing and adverse limb and cardiovascular events in patients with diabetic foot ulcers

Ancillary Studies with Data/Biospecimens Only

Investigator	Study Name
Song; Purkaystha	Cross-validating foot wound size measurements using the WoundMatrix toolbox
Haus; Schmidt	Exploring the role of CCL28 in diabetic foot ulcer
Jozic; Tomic-Canic	Developing predictive and monitoring biomarkers of diabetic foot ulcers from discarded wound dressings.
Tomic-Canic, Marjana	Targeting healing pathways to treat diabetic foot ulcers
Stone, Rivka	Emerging Physician-Scientist Supplement
Quinn; Tomic-Canic	Non-invasive automated wound analysis via deep learning neural networks