

Understanding and Addressing Pain

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HEAL Pain Research Projects

Preclinical **Discovery** Clinical Trials Implementation/ Dissemination **Development Acute to Chronic Pain Signatures Discover and Validate Novel Targets for** Safe and Effective Pain Treatment **Preclinical Screening Platforms + Novel Drug Development Translating Discoveries Into Effective Devices For Pain Treatment** Discovery and Validation of Biomarkers, Biomarker Signatures, and Endpoints for Pain Indications Data & Asset **Early Phase Pain** Sharing Investigation **Partnership Clinical Network Back Pain Research Consortium** Hemodialysis Pain Effectiveness Pain Research Network Management **Pragmatic and**



Implementation Studies for the Management of Pain