Chemistry of Life Processes Institute

Pioneering a New Era of Precision Medicine

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CLP Provides Precision Proteomics for Precision Medicine

At the forefront of the next great wave of biomedical innovation.

A world leader in **proteomics** - the identification and measurement of proteins and their various forms (proteoforms).

A pioneer in identifying changes in proteoforms that underlie disease with unprecedented speed and accuracy.

A trainer of next gen innovators providing them with unique skills and approaches to advance protein-informed medicine.

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Transdisciplinary Faculty Renown for High-impact Drug & Diagnostics Discovery

Lyrica® Pfizer
Blockbuster Drug
Neuropathic Pain

AKV 9
1st ever **ALS** drug
In clinical trials

Gabaculin
Liver Cancer
Preclinical studies

MAC-3-190
Melanoma
Preclinical studies

Rick Silverman

ACU 193
Alzheimer's Disease
In clinical trials

Bill Klein

Drug Targets for:
Cancer
ALS
Alzheimer's
Covid-19
Liver disease
Cardiovascular disease
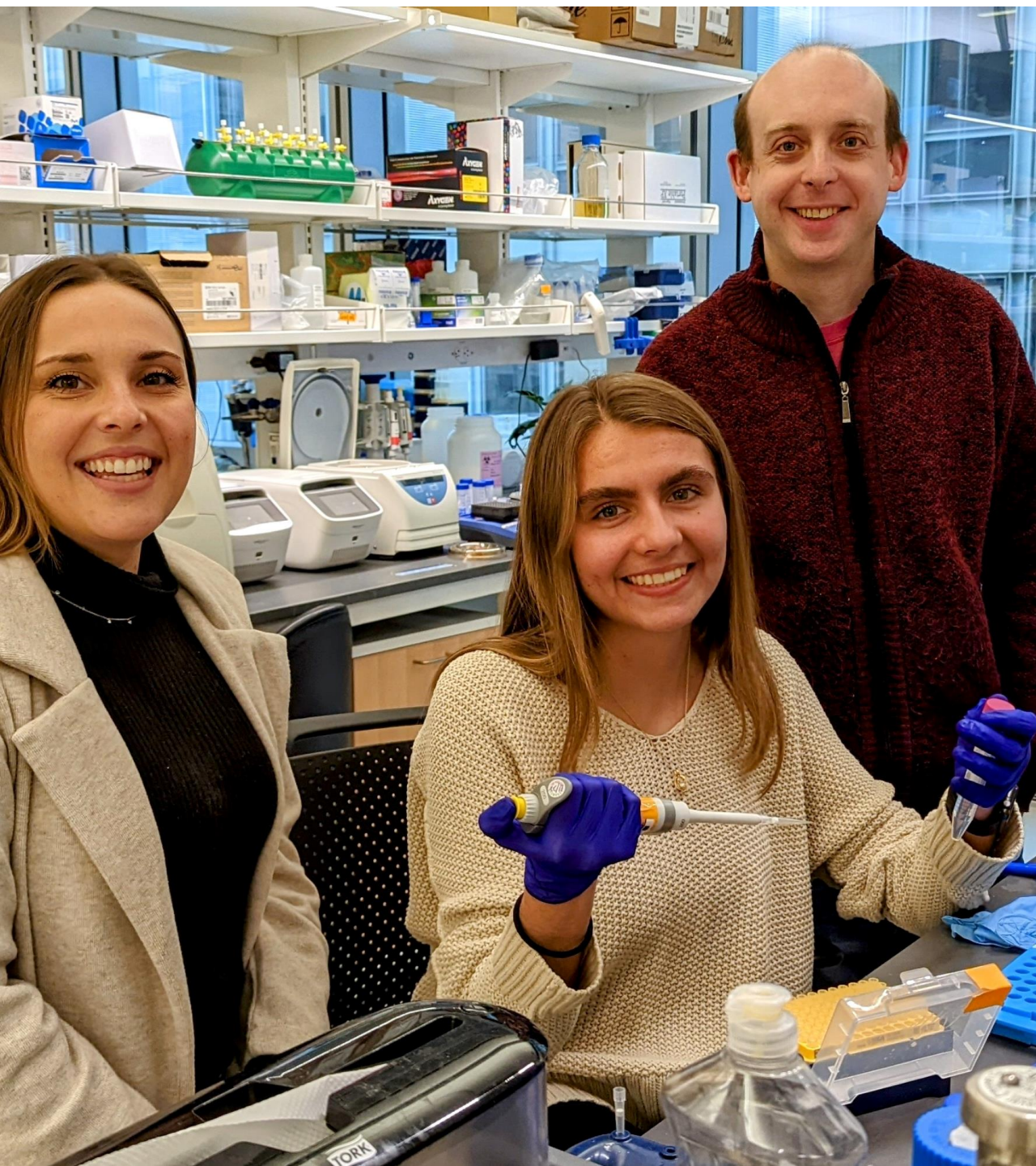Kidney disease

Neil Kelleher

Tom Meade

Imaging and Disease Detection
Cancer
Gene Therapies
Clinical Imaging
Handheld Biosensors

CLP Bridges Research Across Feinberg & Evanston

Partnering with Feinberg clinicians to develop proteomics-informed medicine

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CLP-Feinberg Convergence Research Initiatives

Partnerships focused on most compelling clinical problems: ALS, Alzheimer's Disease and Cancer

- Fund pilot studies at $500k each
- Apply new proteoform knowledge to drug, diagnostic and biomarker discovery
- Preliminary data needed for large scale federal and foundation funding opportunities

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CLP Trains Tomorrow's Innovators

- **Convergence Scholars Program** for postdoctoral fellows to build careers in convergent biomedical research.

- **Summer Research Program** for NU undergrads.

- **Interdisciplinary Summer Research Experience (I-SURE) Program** for diverse undergrads from local institutions.

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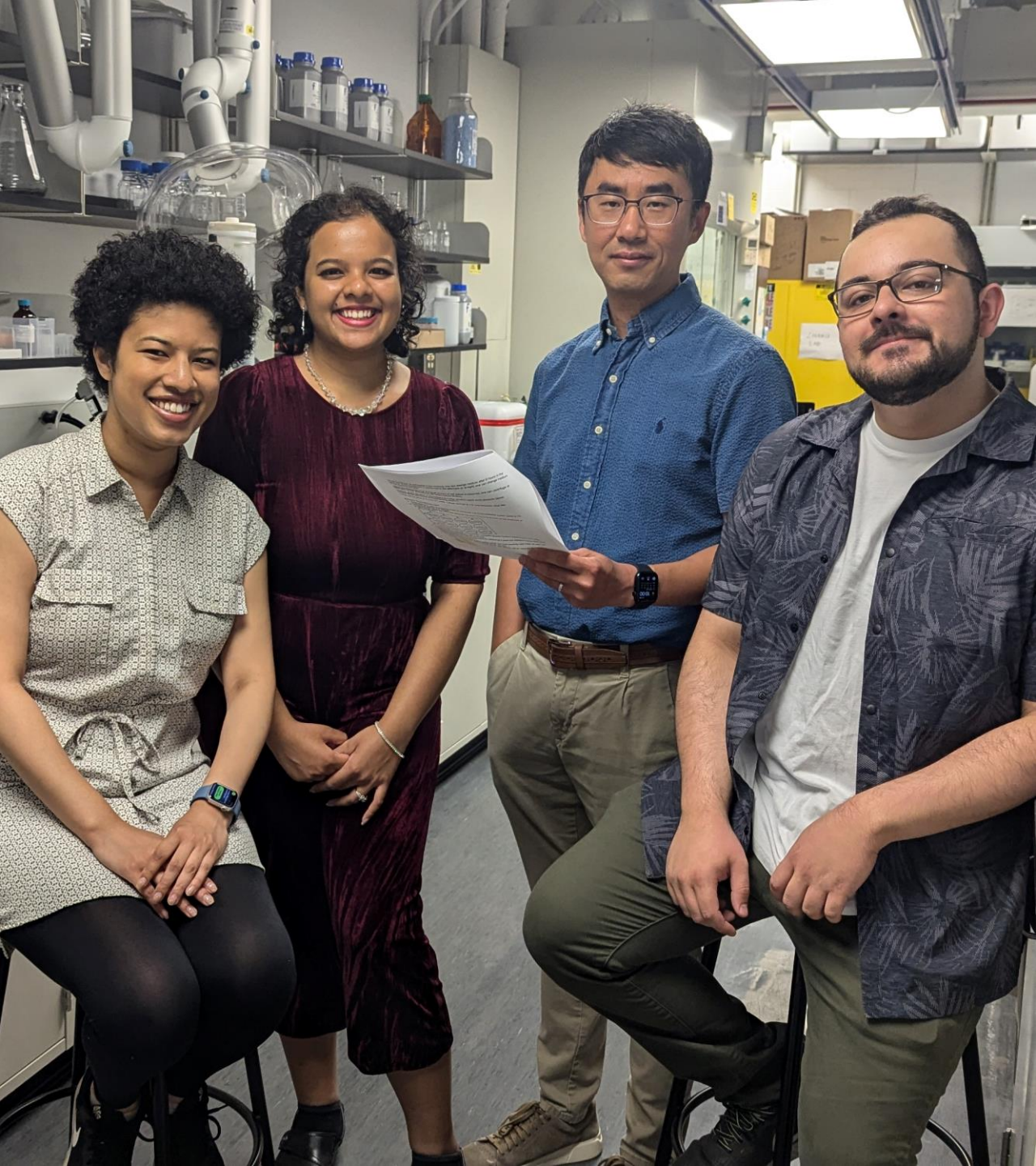
A Bold Leap Toward Precision Medicine

Over the next 5 years CLP will:

- Build new technologies for understanding key proteins in cancer, Alzheimer's, Parkinson's and ALS.

- Develop new diagnostics and therapies to combat these diseases.

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2170 Campus Drive, Room 3633
Evanston, IL 60208 | clp.northwestern.edu

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CONTACT
Neil Kelleher, PhD
CLP Director
n-kelleher@northwestern.edu

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