Precisionary Instruments and IIAM Align Efforts to Advance Human Tissue Research

New Collaboration Aligns with NIH Shift Toward Human-Based Models for Disease Study and Therapeutic Discovery

ASHLAND, Mass., January 13, 2025 — Precisionary Instruments and the International Institute for the Advancement of Medicine (IIAM) today announced a strategic effort to advance human tissue-based research using precision-cut tissue slices (PCTS). The collaboration combines IIAM's unparalleled expertise in providing non-transplantable donated organs for research, screening over 34,000 organs annually authorized for medical research, with Precisionary's Compresstome® vibrating microtomes—high-performance instruments designed to produce thin, viable human tissue slices for ex vivo experiments.

The announcement comes on the heels of a new NIH initiative to prioritize **human-focused research over traditional animal models**. As of April 29, 2025, all new NIH Notices of Funding Opportunity (NOFOs) must include support for human-based approaches, such as clinical trials, real-world data, organoids, perfused organs, and **precision-cut human tissue slices**. The NIH emphasized that funding opportunities will no longer exclusively support animal models, signaling a fundamental shift in the future of biomedical research.

This marks Precisionary Instruments' **first strategic effort with a nonprofit organization**, reflecting a shared commitment to accelerating translational research and honoring the legacy of organ donors through impactful scientific use.

"This collaboration is about advancing science in metabolic disorders, end-stage organ failure, and other debilitating diseases while respecting the humanity of donation. By combining access to donated tissue with Precisionary's innovative technology, we are helping researchers take the next step forward in disease understanding and therapeutic development," said Gina Dunne Smith, Executive Director at IIAM.

Together, the organizations will provide a pipeline from donor tissue to high-quality research samples, with resources and training for academic, biotech, and clinical scientists. The effort will initially focus on precision-cut lung, liver, and kidney slices, with co-branded protocols, researcher webinars, and educational outreach launching in Spring 2026.

"This collaboration represents more than just a technological alliance—it's a mission-driven effort," said Dr. Abigail Chu, MD-PhD, Chief Scientific Officer at Precisionary Instruments. "As researchers face growing mandates to adopt human-based models, our work with IIAM directly enables that transition. Our Compresstome systems are uniquely equipped to preserve tissue viability and consistency, making them ideal tools for today's NIH priorities."

The effort will also explore opportunities to present jointly at scientific conferences such as the American Association for the Study of Liver Disease and the Society for Neuroscience, host

webinars with researchers using human donor tissue, and publish a joint blog series highlighting the full workflow—from donor recovery to tissue slicing to experimental application.

About IIAM

The International Institute for the Advancement of Medicine (IIAM) is a wholly-owned division of MTF Biologics, a non-profit organization based in Edison, NJ, and a global leader in providing non-transplantable organs to the research community. For over 39 years, IIAM has enabled groundbreaking medical studies, therapeutic development, and pre-clinical investigations by offering access to more than 100 types of human organs and tissues. Learn more at www.iiam.org.

About Precisionary Instruments

Precisionary Instruments is a global innovator in tissue slicing technologies. The company's flagship Compresstome® vibrating microtomes are trusted in labs worldwide for applications including neuroscience, oncology, liver disease, and respiratory research. Precisionary's tools and protocols help researchers create consistent, viable tissue slices for translational studies and therapeutic development. Learn more at www.precisionary.com.

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