

The University at Buffalo is a leader in health and medical research and innovation from drug development and diagnostics to medical technologies and devices.

UB's Expertise in Health & Medicine



Women's Health Initiative (WHI)

UNDERSTANDING MORBIDITY AND MORTALITY

The Women's Health Initiative is a multi-center clinical trial and national health study that has yielded major discoveries in chronic diseases affecting postmenopausal women.



Community Health Initiatives

TACKLING CHRONIC DISEASE

UB's Community for Global Health Equity (CGHE) brings together scholars in health sciences and architecture, planning, engineering and other disciplines to develop innovative and

low-cost solutions, contribute guidance to key organizations and influence policymaking to increase equity locally and around the world. UB's Community Health Equity Research Institute performs research to advance understanding of the root causes of health inequities and to develop and test innovative solutions in the region, with a focus on inequities experienced by African Americans.



Clinical and Translational Science Institute (CTSI)

ADVANCING INITIATIVES TO IMPROVE HEALTHCARE AND REDUCE HEALTH DISPARITIES IN OUR COMMUNITY

The Institute has received federal funding for research projects that transform ideas from labs and

universities into practical health solutions through translational science. This funding supports the development of improved diagnostics, drugs, therapies, and devices that save lives and enhance health outcomes.



Center for Protein Therapeutics (CPT)

ADVANCING THE DEVELOPMENT OF NEXT-GENERATION PROTEIN DRUGS

The Center for Protein Therapeutics works with international pharmaceutical companies to advance the development of

next-generation protein drugs with increased effectiveness and convenience for users. CPT is a core research facility within the Center of Excellence in Bioinformatics and Life Sciences (CBLS) on the Buffalo Niagara Medical Campus.



Center of Excellence in Bioinformatics and Life Sciences (CBLS)

Center for Advanced Technology in Big Data and Health Sciences (UB CAT)

UB provides state-of-the-art assets for scientific research for mature companies, early-stage startups, or innovative researchers. Experts on staff accelerate the commercialization of emerging technologies. Partners access wet labs, incubation space, genomics, bioinformatics, proteomics, and bioanalysis core services. UB partners with industry to drive collaborative product development and proof-of-concept research. Developmental projects focus on drug development, diagnostics, therapeutics and healthcare IT with a big data component. Biomedical and life sciences workforce development, education and training programs abound to provide talent to partnering companies.



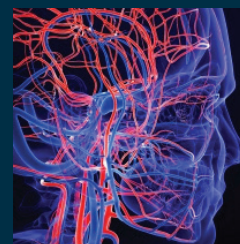
BioXFEL – NSF Science and Technology Center

ACCELERATING THE UNDERSTANDING
OF MOLECULES INVOLVED IN DISEASES
AND BIOLOGICAL PROCESSES

Biology with X-ray Free Electron Lasers (BioXFEL) is a Science and Technology Center addressing the fundamental questions in biology at the molecular

level. Featuring state-of-the-art X-ray laser technology, BioXFEL allows researchers to capture biological molecules in atomic detail, view their functional motions by taking brief snapshots and observe interactions in their native environment.

Meet Our Startups and Entrepreneurs



UB Startup: QAS.AI

QAS.AI leverages AI to improve the treatment of vascular lesions through the development of software to detect complications during surgery.



UB Technology for Health & Medicine

UB Technology leverages AI to make high-level predictions to assist with public health management and intervention. AI models can now show key mortality risk factors for lung and bronchial cancers.



UB Technology for Health & Medicine

UB Technology leverages a suite of AI tools to analyze smartphone images taken by patients to monitor wound healing. Machine learning algorithms extract the biomarkers of wound healing.

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