

What is One Health?

The One Health Triad



- **Impact** : A world better able to prevent, predict, detect, and respond to health threats and improve the health of humans, animals, plants, and the environment while contributing to sustainable development.
- Purdue and Indiana are uniquely positioned to take advantage of the One Health concept for research, innovation and economic development.

Office of the Vice President for Health Affairs

- Work with units to approach strategic faculty hiring:
 - Artificial intelligence in health
 - Microbiome/computational genomics (One Health Innovation District — Elanco site in Indianapolis)
 - Health care access (rural and urban; plant, animal and human health)
 - Advanced genetics (epigenetics, ribozymes, computational, etc.)
- Develop new cross-disciplinary health programs – e.g., radiopharmaceuticals, bioastronautics, One Health certificate
- Align our health and life science undergraduate, graduate and professional programs in a way that finds synergies, including strategic program growth at West Lafayette and Indianapolis.
- Engage in “futures thinking” for health and life sciences.

Office of the Vice President for Health Affairs

Partner with the Office of Research to :

- Catalyze health and life science research to drive innovation, entrepreneurship and greater federal funding.
- Provide a home for cross-disciplinary programs such as Health Equity Initiatives and increase activity with institutes in Discovery Park.
- Strengthen connections in health and life science programs with industry and clinical partners. This should include robust partnerships with the health science industry, health care clinics and hospitals, and involve research collaborations as well as student training opportunities.
- Partner with the build-out of the “Indy Health District” north of the new IU Health hospital currently under construction.

Life Sciences/Chem+ Research Facility Study

Addressing the physical facilities that support research and workforce development in life and chemical sciences.

Administrative Operations in partnership with the Office of Research and the Office of the Provost, focusing on:

- Increasing research opportunities in the chemical and life sciences.
- Ten year+ plan to build and reuse/renovate facilities to meet emerging research needs consistent with master plan.
- Focus on interdisciplinary culture, resilient research labs, and efficient use of space.
- Providing necessary facilities for the NCI-designated Purdue Institute for Cancer Research.
- Preliminarily studying:
 - Phase 1: Life Science Research Building (LSRB)
 - Phase 2: Hansen Life Sciences Renovation



One Health Innovation District in Indianapolis

Create a future that improves animal, plant, environmental, and human health while positively impacting Indiana's economy.

Purdue is partnering with Elanco in Indianapolis to build an innovation ecosystem that includes:

- flexible laboratory space for R&D
- incubator space for start-up companies
- co-located expertise of Purdue, multinational corporations and entrepreneurs



Community Engagement

Bolster community engagement in alignment with land -grant mission; provide support and education for One Health concepts to impact communities.

- Center for Rural and Migrant Health
- Center for Community Health Enhancement and Learning (HEAL)
- AMPATH– The Academic Model Providing Access to Healthcare
- Health Extension
- Center for Human-Animal Bond
- Indy Health District
- Expand Global Partnerships



Questions?

THANK YOU!