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Creating Devices for Personal Health Monitoring

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Creating Devices for Personal Health Monitoring

CCTS Retreat, May 20, 2014
Institute for Applied Life Sciences
Equipment & Collaboratories to Accelerate Translation

http://www.umass.edu/ials/

Collaboratory spaces throughout
The Institute for Applied Life Sciences (IALS)

- **Protein misfolding diseases**
  - Alzheimer's
  - Huntington's
  - Parkinson's
  - Prion diseases
- **Cancer**
  - Blocking misactivation of signaling proteins
  - Promoting apoptosis
- **Anti-infectives**
  - Targeting pathogen-specific homeostasis components

**Models to Medicine Center: Protein Homeostasis**

**Center for Personalized Health Monitoring**

**Center for Bioactive Delivery**

**Analytical/Biophysics**

**Big Data Analytics**

Supported by a capital grant to UMass Amherst (announced on June 6th, 2013)

**Carriers**

- Developed at UMA
David McManus, Asst Prof, Depts. of Medicine & Quantitative Health Sciences, UMass Medical Ctr, Worcester, MA

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Christopher Salthouse, Dev and Linda Gupta Asst Prof, Dept. of Electrical Engineering, University of Massachusetts, Amherst, MA

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Center for Personalized Health Monitoring

A Vertically-Integrated Pipeline for Personalized Health and Biometric Sensors