

Johns Hopkins Medicine Research



- *Goals*
- *Infrastructure*
- *Directions*



GOALS

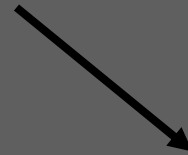
Basic Research

Molecular and Cellular Biology
Physiology and Genetics
Neurosciences



Translational Research

Disease Mechanisms
Disease Models
Drug Discovery
Clinical Studies



Clinical Research/Trials

Drug Trials
Vaccine Trials
Device Trials



Accelerating into the Future

- Small scale to LARGE scale science
- Interdisciplinary Research
- Institutes
- Buildings & Cores
- Computational Medicine/Bioinformatics
- Sciences & Technology Park



JHU SoM Research Institutes

Institute for Basic Biomedical Sciences

– Basic sciences (examples)

- Biological Chemistry
- Biophysics – structural biology
- Molecular Biology & Genetics – yeast, Drosophila
- Neurosciences – signal transduction, drug development
- High-throughput Biology Center
- Epigenomics Program

IBBS

INSTITUTE FOR BASIC
BIOMEDICAL SCIENCES



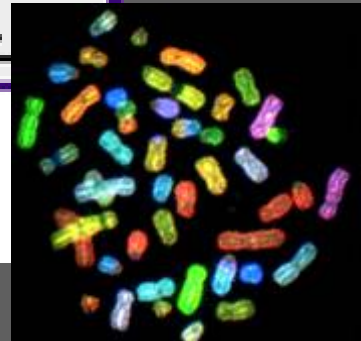
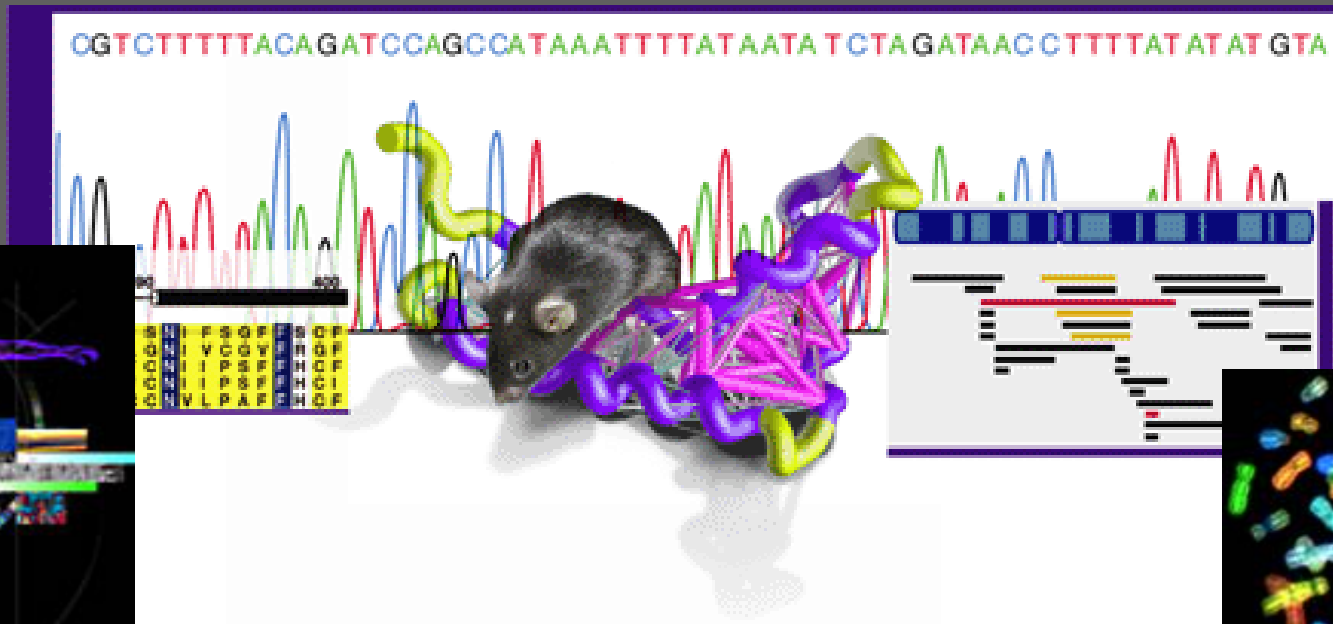
JHU SoM Research Institutes



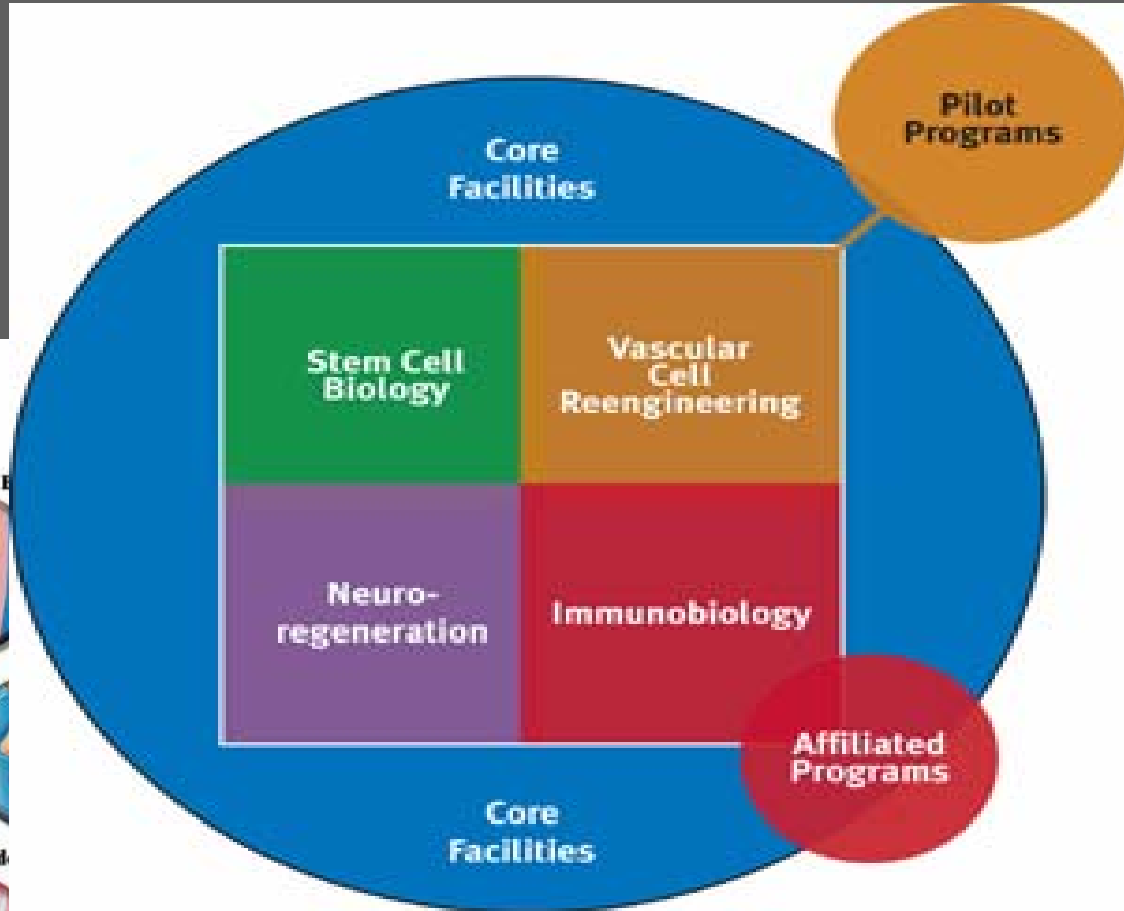
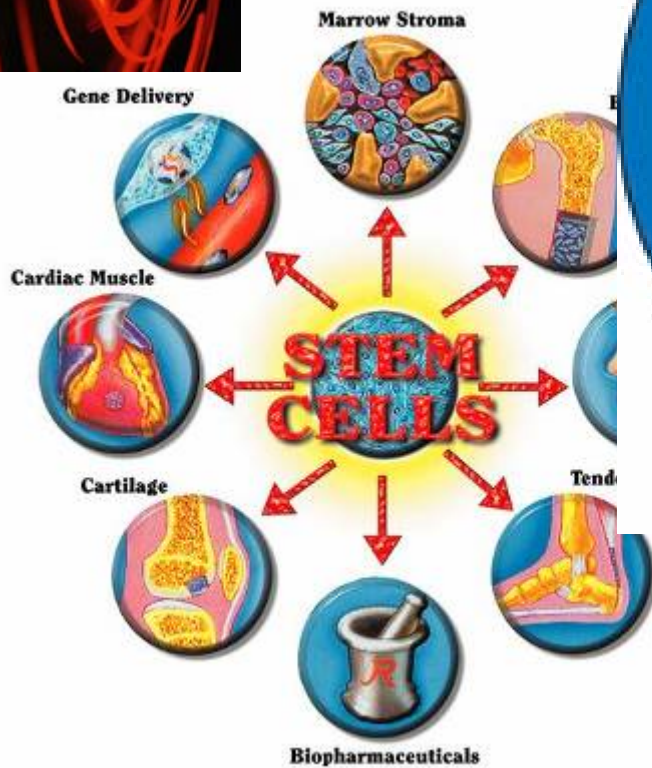
Institute for Genetic Medicine

Computational genetics – high speed gene typing

Complex Diseases: aging, high blood pressure



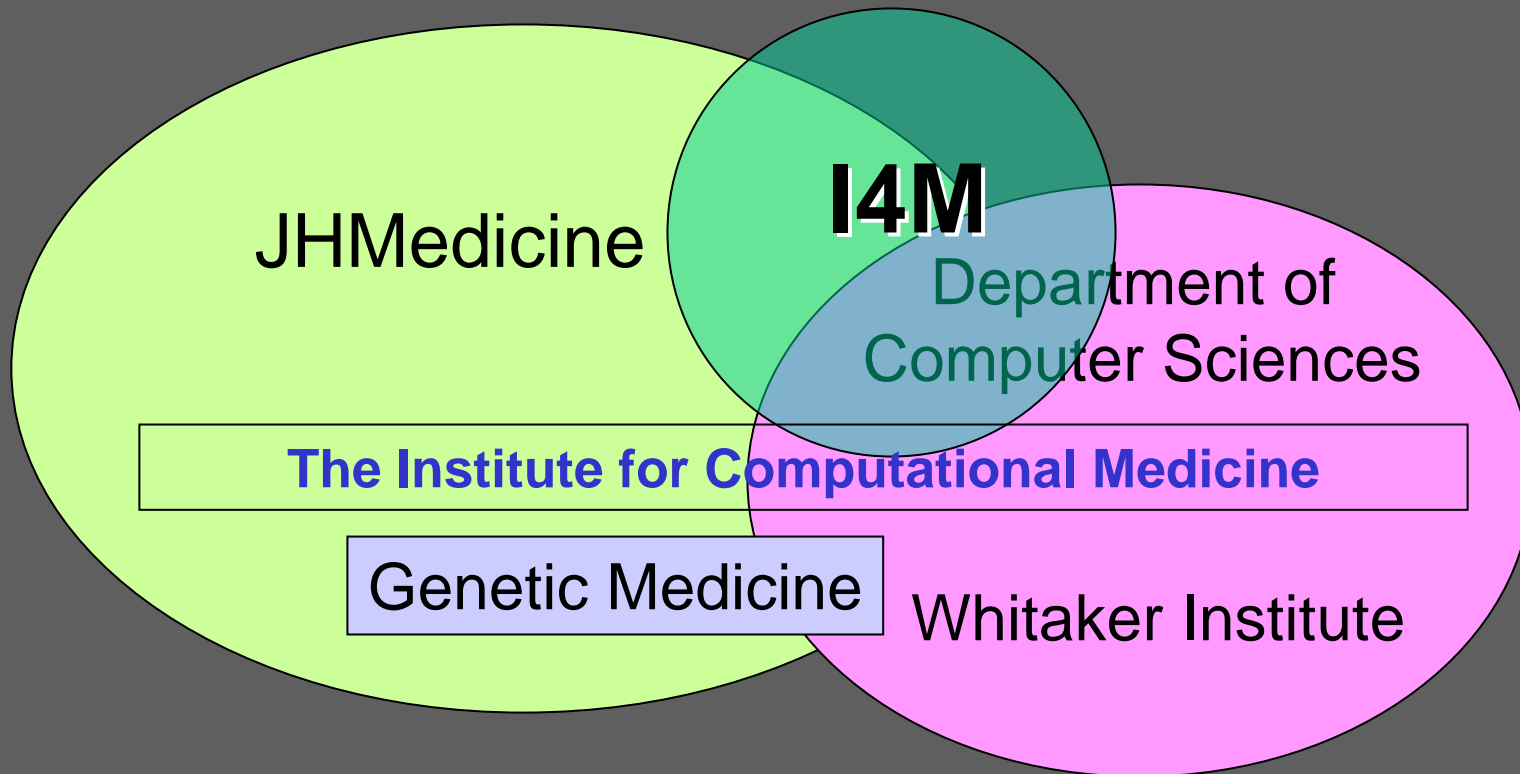
Institute for Cell Engineering



JHU SoM Research Directions Buildings & Cores

- Genomics, DNA Microarray
- Bioinformatics
- Proteomics
- ChemCore
- Small Animal Imaging
- Animal Facility
- Clinical investigation information system

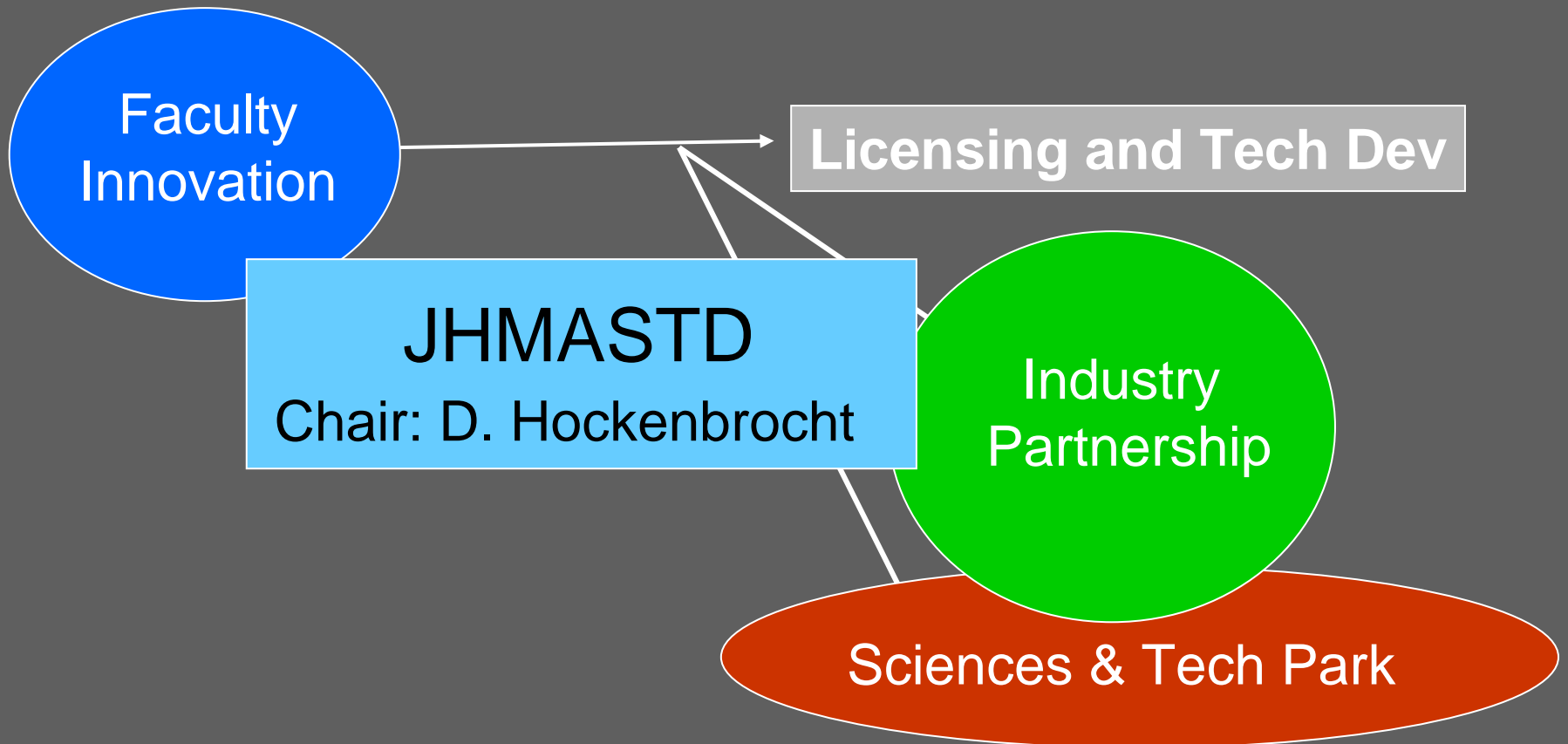
Computational Medicine/Bioinformatics





Integrating Imaging, Interventions and Informatics in Medicine
I4M (Interventional Suite of the FUTURE)

Impact through Commercialization: Johns Hopkins Medicine Alliance for Science and Technology Development



Sciences and Technology Park at Johns Hopkins

