

# Johns Hopkins Technology Transfer



Bringing the benefits of discovery to the World.

## Technology Transfer and the University: an orientation for new faculty at Johns Hopkins University

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New Faculty Orientation  
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# Emergence of technology transfer as a priority for the University

# In the beginning . . .

... prior to 1980, all inventions conceived or reduced to practice in the performance of federally funded research ... **were owned by the federal government.**

# Bayh-Dole Act of 1980

- stimulate the US economy and facilitate technology transfer
- universities **could elect to take title to inventions** conceived or reduced to practice in the performance of a federal grant, contract, or cooperative agreement
- **and are obligated to...**

# Obligations of Bayh-Dole

- **Disclose each new invention**
- **File US & international patent applications**
- **Attempt to license inventions**
- **Share license revenues with inventors**
- **Use remainder to support research & education**

# AUTM Licensing Survey of 2004

- \$1.122 billion in gross license income
- 10,517 new US patent applications, up 32.8% from FY03 filings of 7,921
- 3,680 US patents issued
- 4,783 new licenses and options
- 462 new companies formed

# Income leaders

- Columbia - \$220 M (90% from 4 technologies, no longer participating in AUTM survey)
- New York University - \$109 M
- Stanford - \$47 M
- University of Minnesota - \$45.5 M
- WARF - \$47 M
- Florida State - \$14 M - royalties down from \$52 M in 2002 from *Taxol*
- MIT - \$25.8 M

# Basic licensing facts

- Majority of all licenses to small companies (< 500 employees)
- > 80% of income derived from < 20% of licenses
- < 1% of licenses yield > \$1M in annual income\*\*

# Technology Transfer at JHU

# History of JHU technology transfer

- First tech. transfer office positioned at Homewood in 1973
- 1st published IP guidelines by Trustees – '86
- SOM licensing office established – '86
- Trustee's revised IP policy – '92
- Homewood & APL offices established – '98
- Trustees approve simplified sharing formula – '01
- Office consolidation creating LTD - '02
- Renaming of LTD to JHTT – '05



**Bloomberg School of  
Public Health**



**Krieger School of  
Arts & Sciences**



**Whiting School of Engineering**



**The Peabody Institute**



**Nitze School of Advanced  
International Studies**



**School of Medicine**



**School of Nursing**



**School of Professional Studies  
in Business and Education**

# JHTT Mission Statement

The Johns Hopkins Technology Transfer office furthers the academic mission of the Johns Hopkins University by facilitating the commercialization of University innovations for the public good by:

- Encouraging invention disclosure
- Protecting and managing the University's intellectual property;
- Enabling technology development and licensing; and
- Encouraging and supporting entrepreneurs.

# JHTT Vision Statement

- master and lead best practice in academic technology transfer
- leveraging JHU IP for monetary and non-monetary value
- engage strategically with JHU stakeholders – faculty, industry, sister institutions, funding entities – to achieve **knowledge stewardship** as a component of social responsibility and public service, the third leg of the academic mission
- facilitate access to JHU technology by being as resourceful as possible with JHU knowledge advances and research expertise in a manner which preserves and advances the quality of scholarship at Johns Hopkins University

# JHU IP Policy

- As a condition of employment, **Hopkins faculty and staff are obligated to report inventions** made with university resources (to JHTT) and to assign title to the University in exchange for a share of net income from licensing the inventions.

# Revenue sharing

- 35% inventor's personal share
- 15% inventor's research share
- 15% inventor's department
- 30% school, 5% university
- with 25/10 to school and university for royalties exceeding \$300K

# What is IP?

- Not ideas. Ideas are not protectable, except by confidentiality
- Embodiments of ideas are protectable
- Personal Property
- Intangible (intellectual property)
  - Patents
  - Copyrights
  - Trademarks, servicemarks
  - Know how
  - Data
- Tangible (biological materials, software)

# How to Report an Invention

*[www.jhtt.jhu.edu](http://www.jhtt.jhu.edu)*

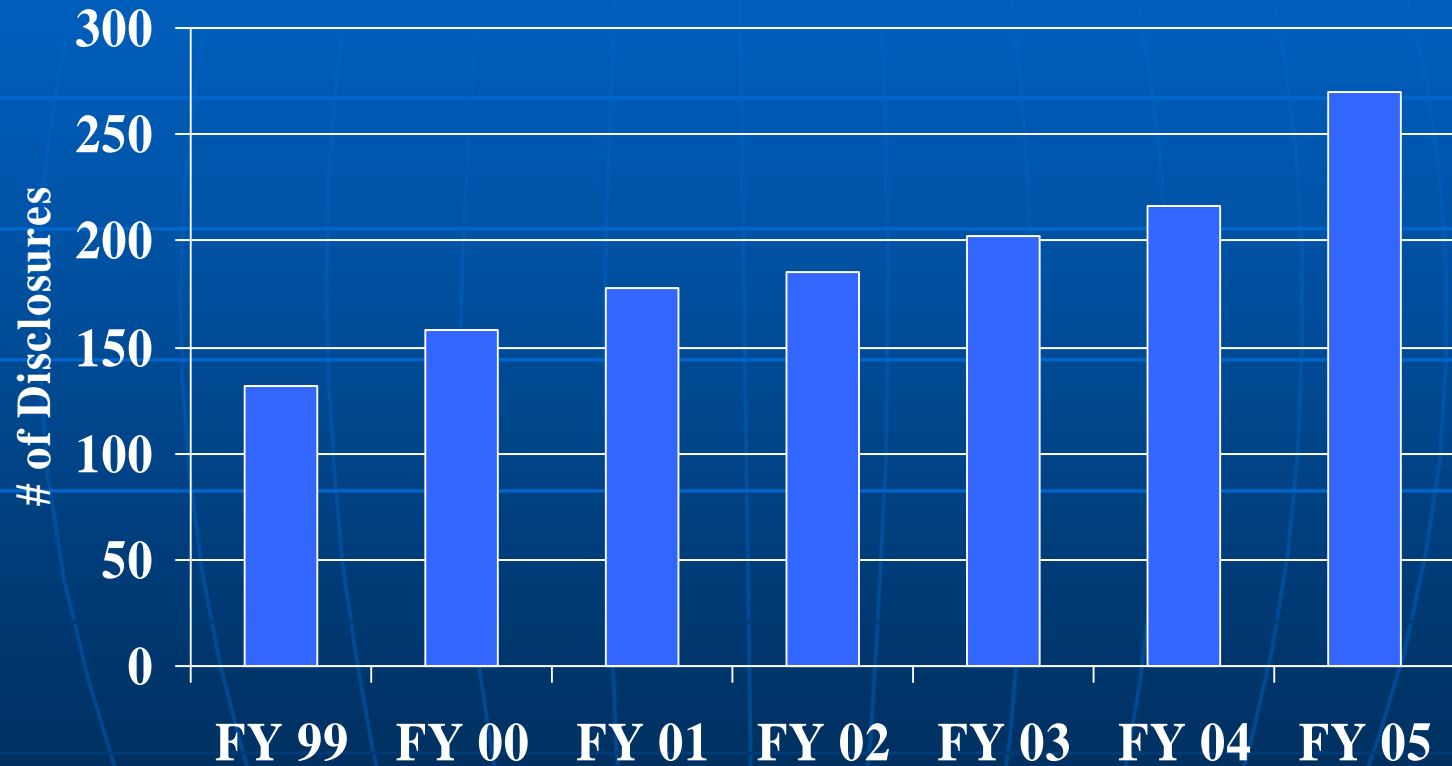
## Report of Invention Disclosure Form (ROI)

To be completed and submitted to JHTT by anyone who believes they have developed a new invention.

Enables JHTT to evaluate the invention

Submit this form with all inventor(s) and Department Director(s) signatures. Visit the JHTT web site at <http://www.jhtt.jhu.edu/ForHopkinsInventors/index.html> for .pdf and Word downloadable formats of this form.

# New JHU reports of invention



# JHTT patent portfolio



# JHTT Invention Management

- New ROI (2 days)
- Evaluation (30 days)
- Investment Decision (4-6 weeks)
- Marketing (Active/Passive: immediate – 2 years)
- Negotiation (Term Sheet/Agreement)
- License (Target: 1-3 months after terms agreed)

# JHU Knowledge Transfer Results for FY04

- First in country in federal funding (second to entire system of California), \$1.016B
- First among peers (top 15 universities in U.S. with research expenditures over \$500M and with medical schools) in filing for patents on inventions disclosed
- 4<sup>th</sup> quartile last among peers in average royalty revenue per license and total revenue earned

# Summary – why think about IP?

- Understand rights of use and access to your intellectual work product
- Promote knowledge stewardship by availing access to knowledge advances through all vehicles, academic and market
- Create value, monetary and non-monetary, for authors, inventors and academic units which support them

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