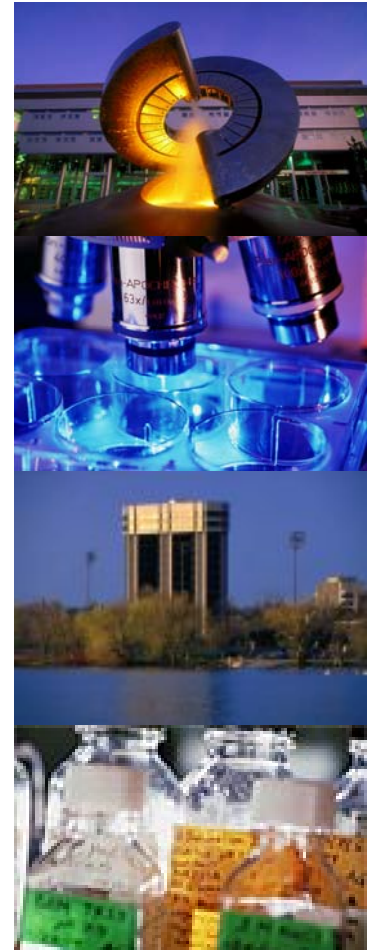


# Human Embryonic Stem Cell Research in Wisconsin

## Wisconsin Alumni Research Foundation

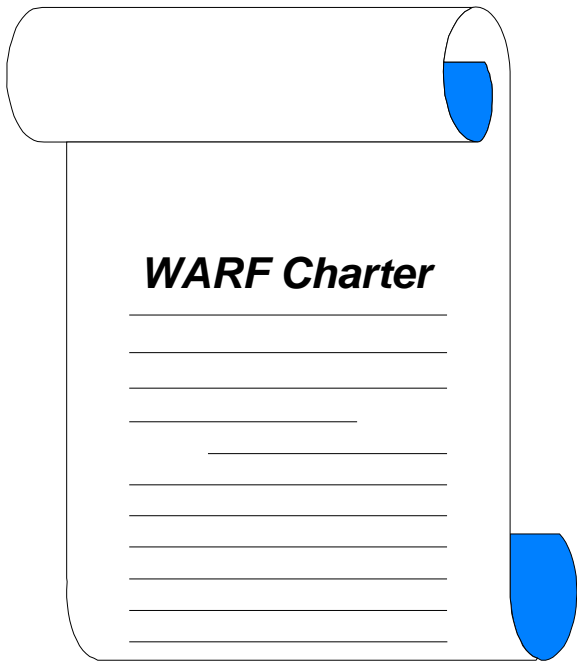
**614 Walnut Street  
Madison, WI 53705  
Tel: 608-263-2500  
Fax: 608-263-1064  
Internet:  
<http://www.warf.org>**



# The WARF Mission

**To support scientific research at the University of Wisconsin Madison by:**

- Moving inventions arising from UW-Madison research to the marketplace, for the benefit of the UW-Madison, the inventor and society as a whole.
- Investing licensing proceeds to fund further research at UW-Madison.

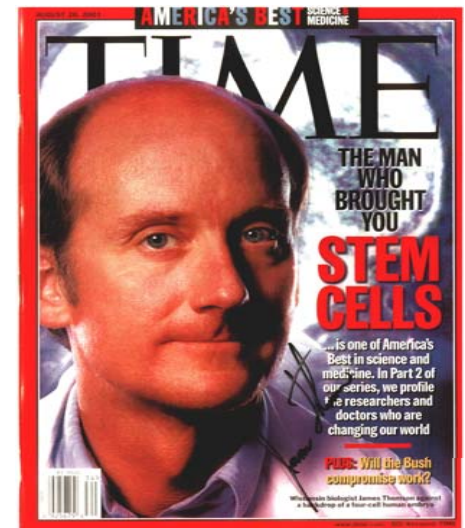


# WARF Overview

- **Established in 1925 by Professor Harry Steenbock.**
- **Tax exempt, not-for-profit public charity (supporting organization).**
- **Exclusive patent management organization for UW-Madison.**
- **\$1.4 billion endowment.**

# WiCell Research Institute

- WiCell Research Institute
  - Founded October 1, 1999
  - Not-for-profit, wholly owned subsidiary of Wisconsin Alumni Research Foundation
  - Scientific Director is James Thomson, DVD, Ph.D.
  - Three functions:
    - Distribute primate ES cells to researchers
      - WiCell owns five of the 22 approved cell lines.
    - Conduct Research on ES cells
    - Provide training for ES researchers
  - Web site: [www.wicell.org](http://www.wicell.org)



# Reasons for founding WiCell



- Prohibition against use of federal funds for HES cell research
  - Pervasive federal funding at UW-Madison
  - Concern about running afoul of rules
- Asked WARF to establish a private, not-for-profit laboratory strictly for HES cell research.
  - Thomson and collaborators did primate embryonic stem cell research on campus and HES cell research off campus in duplicate but private facilitates.

# Reasons for founding WiCell



- Presidential lines are now used on campus, but derivation work and newly derived lines are used in duplicate but private facilities off campus.
- Duplication of resources is also believed necessary because of the precarious State political environment.

# HES cell research at UW-Madison

- Over 50 researchers (including WiCell researchers) conducting research using HES cells.
- Research includes:
  - Understanding the basic biology of HES cells
  - Lineage research in the following areas:
    - Neuronal, cardiac, pancreas (diabetes), bone, blood, retinal.

# HES Cell Patents

- WARF has two basic patents covering HES cells and a method of producing HES cells.
- WARF has a number of other patents and pending applications pertaining to cell lineages, uses of HES cells and related technologies.
- Other universities and for-profit companies have patents or pending applications pertaining to cell lineages, uses of HES cells and related technologies. These patents and applications number in the 100s.

# Licensing strategy for HES cells and Wisconsin patent rights.

- Guiding principals:
  - WARF has always focused on the importance of this technology for research.
  - Whatever licensing strategy was used, it had to permit access with few restriction for non-commercial research.
  - Had to be fair to Wisconsin and protect commercial value of the technology.

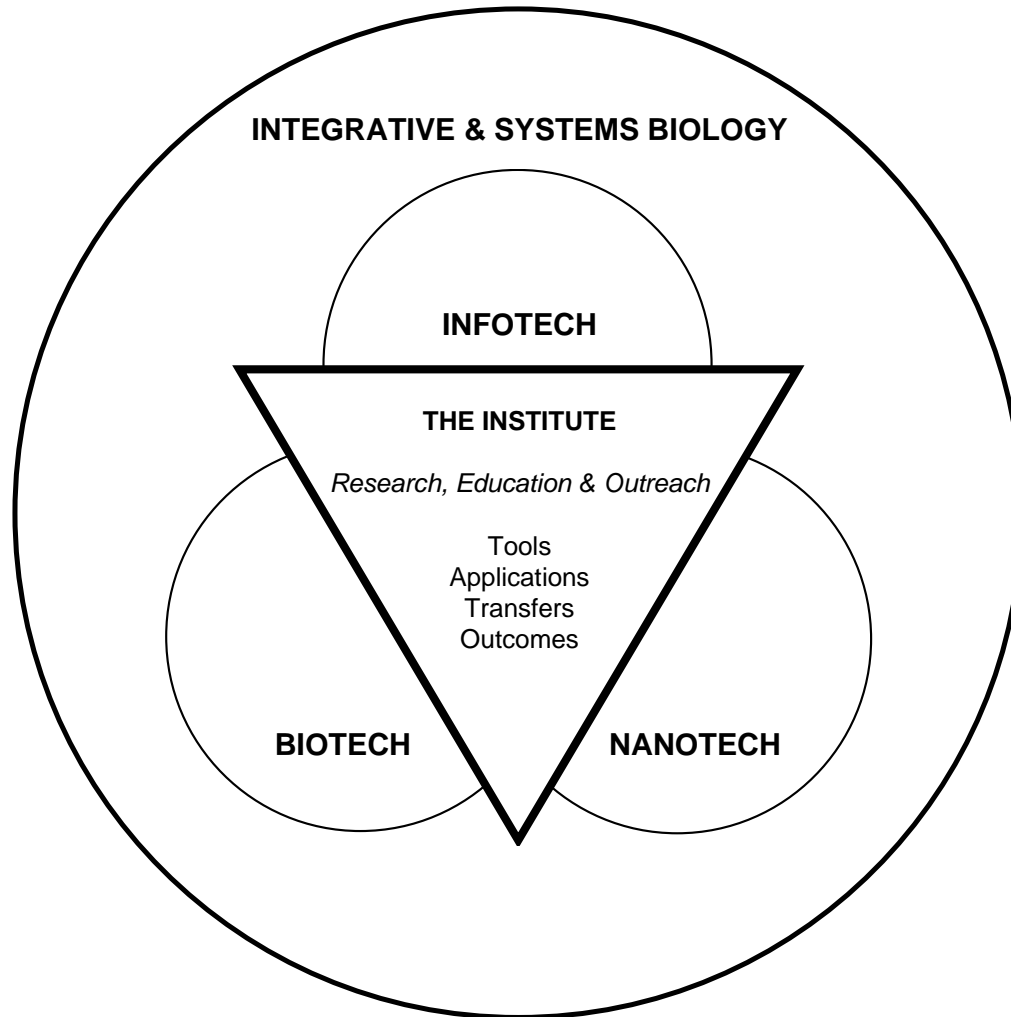
# California Initiative: Challenges and Opportunities

- Opportunities:
  - Enhanced value of stem cell technology
  - More companies are interested in Licensing
  - Spurred the Governor to back the Wisconsin Institute of Discovery (WID)
- Challenges
  - Staying competitive; retaining and recruiting faculty

# **Governor Doyle's Wisconsin Initiative**

- **Facilities and research funding over ten years in the amount of .75 billion dollars.**
- **Focus is on Integrative and Systems Biology i.e. broader than merely HES cells**
- **Originally was to include WiCell but because of State political situation, WiCell was removed from the plan.**
- **Includes at Madison the Wisconsin Institute for Discovery (WID).**
  - **Flexible space for solving complex problems**
    - nanotechnology, biotechnology, infotechnology
    - Shared laboratory space for a high level of interaction among scientists and students from multiple disciplines

# Wisconsin Institute for Discovery



# Wisconsin Alumni Research Foundation



*“The Value of An  
Idea is in the Using  
of It”*

*Thomas Alva Edison*

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