

Kansas

- Area, 82K sq. miles; Population, 2.9M
- 1 medical school, KUMC, Kansas City
- 3 campuses awarding doctorates in biomedical science



The Kansas IDeA Program

- 7 COBRES focus on specific research areas
- 1 INBRE focuses on infrastructure

ALL INVESTIGATOR-INITIATED

Goal: To increase Kansas biomedical research capacity

Kansas IDeA Program Management

Mandated Oversight

Federal: NCRR (1998 – 2011); NIGMS (2011-2012)

Internal and External Advisory Committees

AAAS Review Committee (K-INBRE)

Project Steering Committees

Annual reports:, NIGMS

Other Reporting

Kansas Board of Regents

Kansas IDeA Committee

Campus research administrators

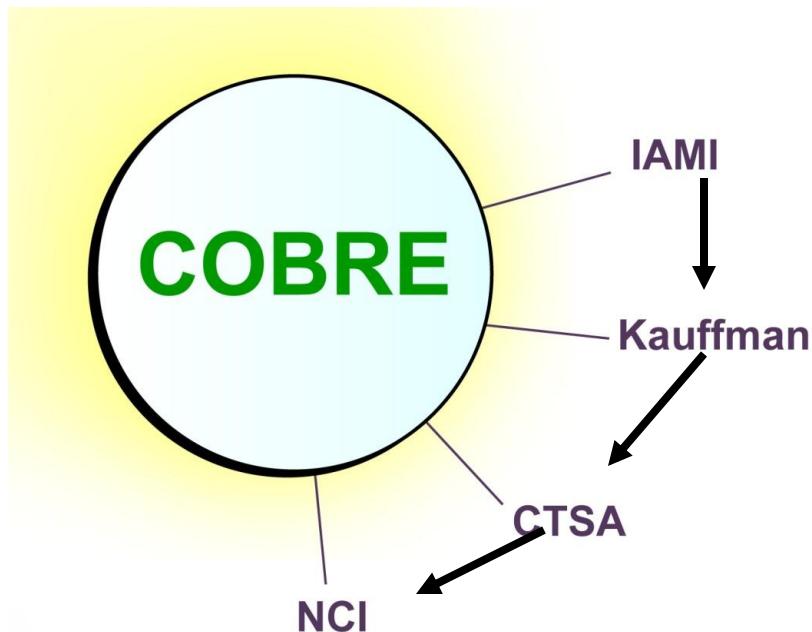
Industry and philanthropic funding sources

Kansas IDeA Committee Oversight

P.I.s of Kansas COBREs and INBRE, meet semi-annually

Facilitates: state relationships, collaborations, PR efforts, scientific expertise

COBRE/INBRE collaborations: building on Kansas strengths



COBRE Experimental Therapeutics
KU-Lawrence, 2000-2015
P.I.s: Timmermann/Georg

Major core: *High throughput screening for drug discovery and development*

KU School of Pharmacy is #2 in the nation in NIH funding

Outcomes:

Founding of IAMI (2010) Institute for Advancement of Medical Innovation

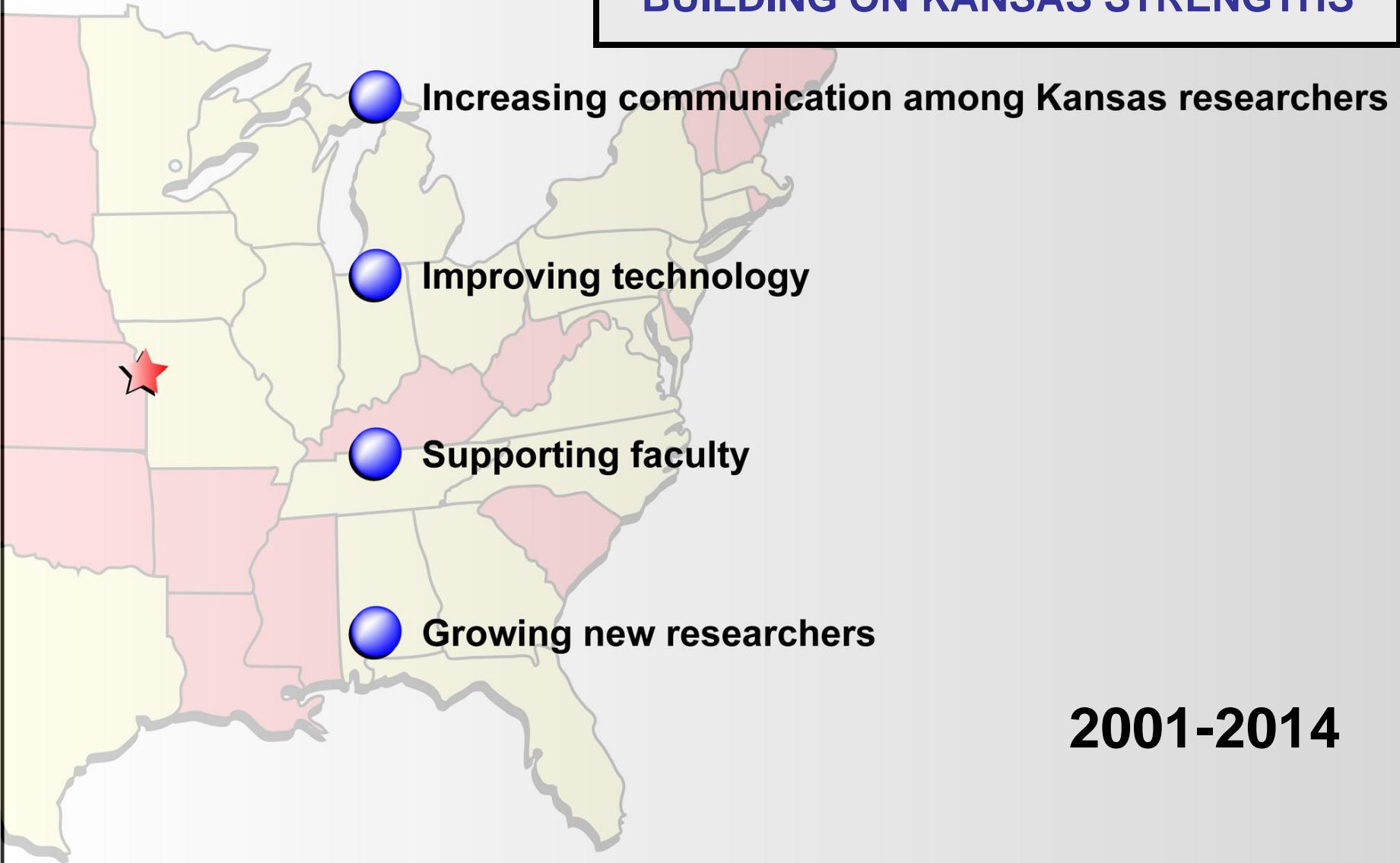
Kauffman Foundation \$8 M + KU Endowment match (2010) for IAMI

Kansas CTSA (2011-2016), Clinical Translational Service Award
K-INBRE supported

KUMC now an official NCI Cancer Center (2012-2017)
K-INBRE supported

GOALS of the K-INBRE

BUILDING ON KANSAS STRENGTHS



2001-2014

K-BRIN

January 8, 2001

Grant Discussion



Joan Hunt, Director &
Paul Terranova, Associate Director

Front to Back: Paul Kelly, KU-L;
Erik Lundquist, KU-L; William
Hendry, WSU; David McDonald,
WSU; Janice Barton, WU



Robert Hanzlik, KU-L



Mike Madden,
FHSU;
Mike Welch,
KUMC



Back to front: Robin Larsen, KUMC;
Mike Welch, KUMC; Joe Bast, KUMC;
Ted Kuwana, KU-L; Skip Loper, WSU



Back to front: Joan Hunt, KUMC;
Paul Kelly, KU-L; William Hendry,
WSU; David McDonald, WSU



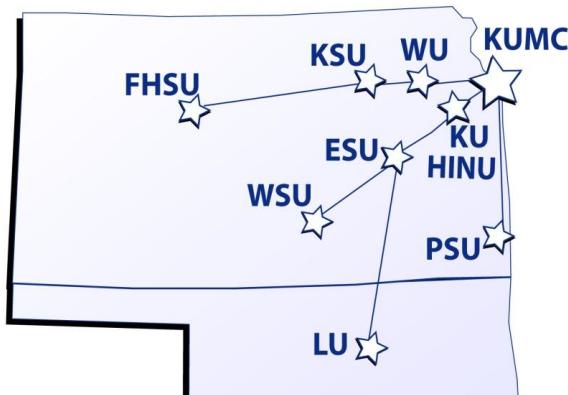
Front to Back: Erik Lundquist, KU-L;
Janice Barton, WU; David Saunders, ESU



Front to Back: Virginia Rider, PSU; Ted Kuwana, KU-L;
Skip Loper, WSU; Meredith Porter, KU-L

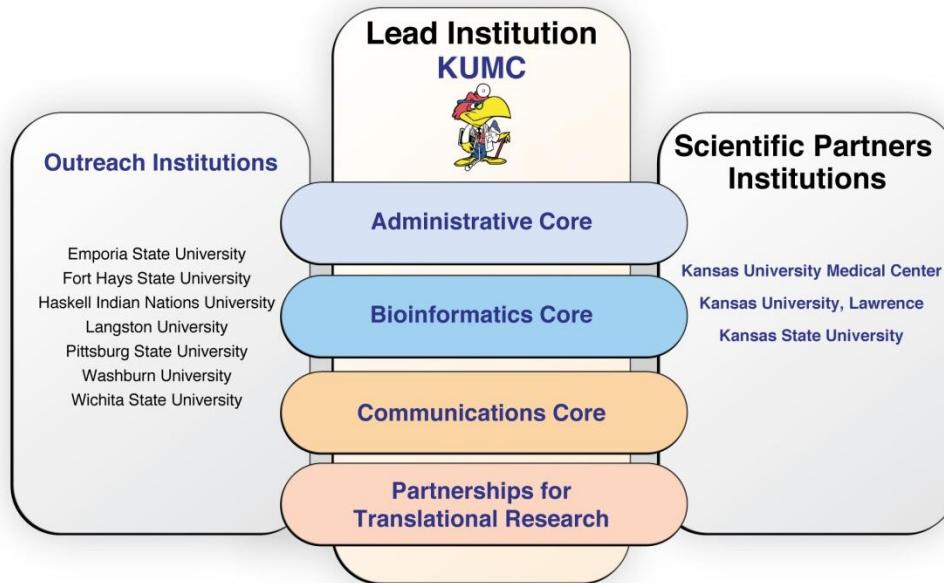
The Kansas INBRE Structure and Organization (2001-2014)

P.I.s: Wright/Hunt; Area: Cell and Developmental Biology



**10 sites, all with
some strength in
Cell and Developmental
Biology**

Total NIH funding, \$45.4 M
Other funding, \$3.02M
institutional, state government, industry



Communications: Director, R. Spaulding & Director, KUMC Center for Telemedicine & Telehealth

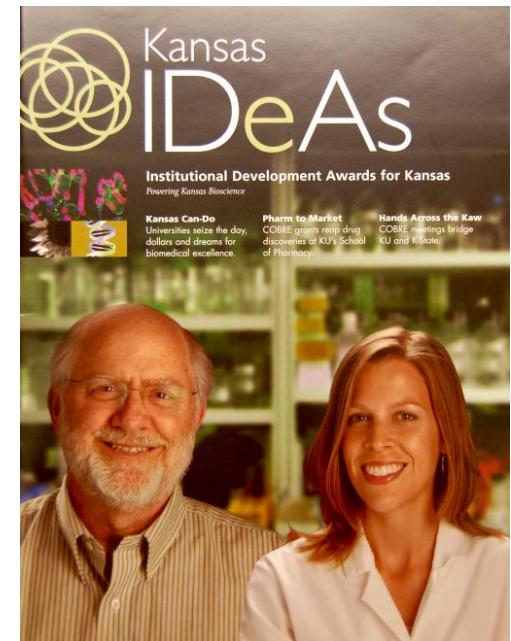
***Modeled after KUMC medical outreach**

***All campuses linked through high definition (HD) videoconference equipment for education and communications; Bioinformatics a major user**

***Websites for both IDeA and K-INBRE; Facebook; notification of meetings, workshops**

***Faculty and student features**

***Periodic publication of *Kansas IDeAs* and brochures**



Faculty: Awards Chair, D. Abrahamson

Competitive awards: external reviews (AAAS/AIBS)
criteria: strength of science & relationship
to Cell and Developmental Biology

- *73 recruitment packages (1/recruit, \$25 - \$50K)
- *19 new investigator grants (2.5 yr, \$250K, mentored)
- *88 pilot grants (1 yr, \$40K)
- *34 bridging grants (1 yr, \$40K)
- *64 Faculty Scholar awards (1 yr, \$10-20K)

Return on 278 investments: 5:1

total investment, \$13,162,000; new external grants, \$64,133,000

Other benefits: -linked audiovisual conferencing equipment
-symposia (local, regional and national)
-access to bioinformatics and all other IDeA cores

Students: Director, K. Chapes, KSU

Undergraduates:

43 Star Trainees

Return on investment: 87% go on to graduate training

688 Summer/Semester Scholars

Return on investment: 68% go into biomedical fields

3060 Presented research at IDeA national meetings (60) and Annual Symposia (3000)

“A life-changing event...”

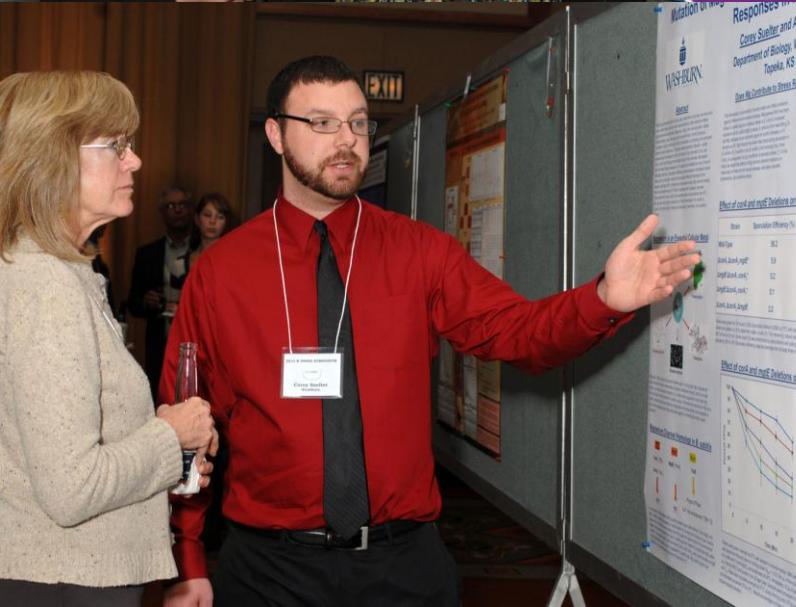
Post-Docs:

***1 yr post-doc support**

***2 yr partnerships for translational research**

All: access to IDeA cores & mentoring

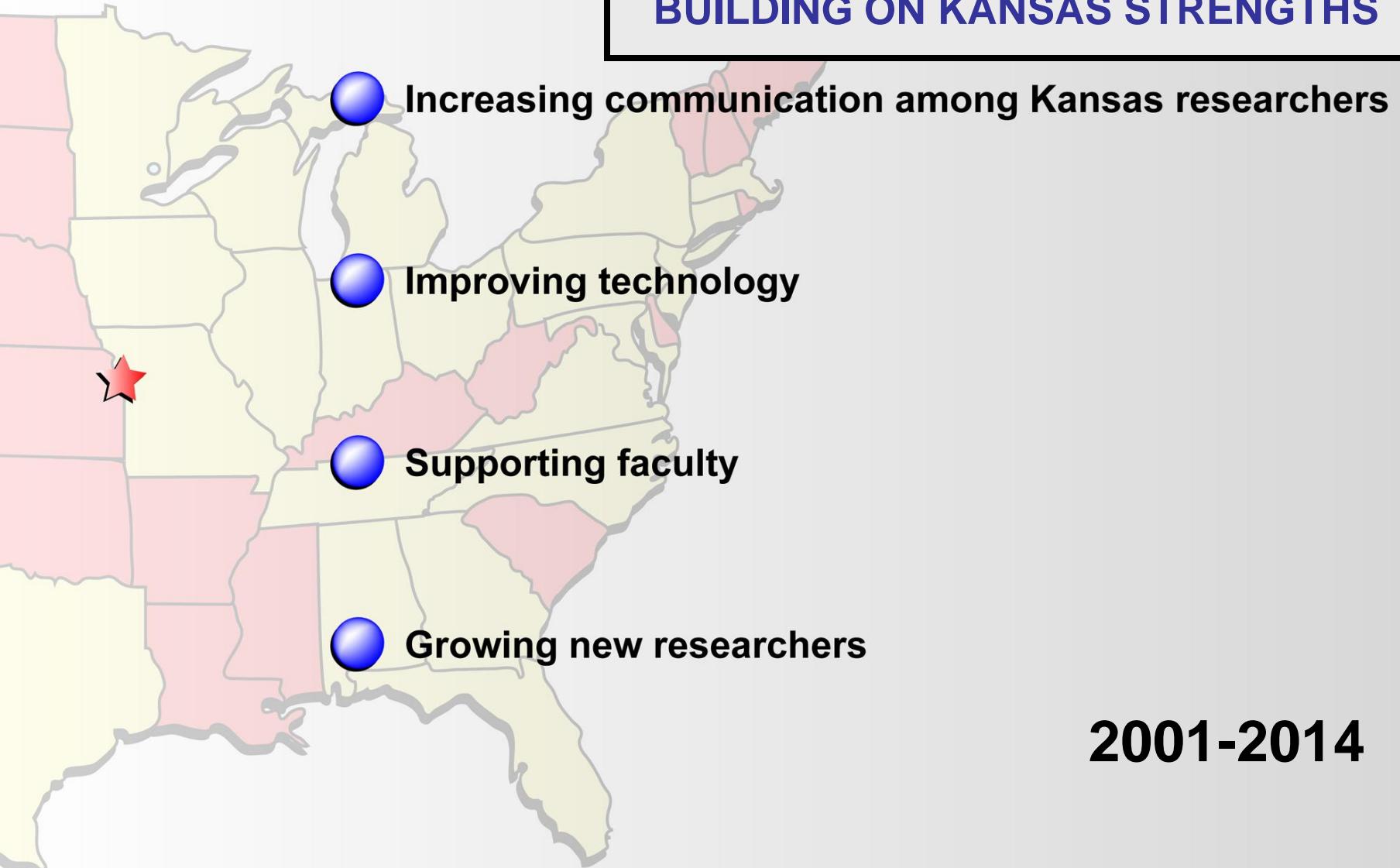




**2011 K-INBRE Symposium
Poster Session**

GOALS of the K-INBRE

BUILDING ON KANSAS STRENGTHS



2001-2014

K-INBRE: Outcomes on \$48.4M investment

Communication: Improved dissemination of knowledge

Improved collaborations

Technology: First bioinformatics facility in Kansas (3 campus cores)

Restructuring for increased medical informatics

Faculty: Increased NIH funding, \$43.8M (2001) to \$106.5M (2011)

Students: Broadened research participation, rural populations

NIH-level research infrastructure initiated on 7 campuses

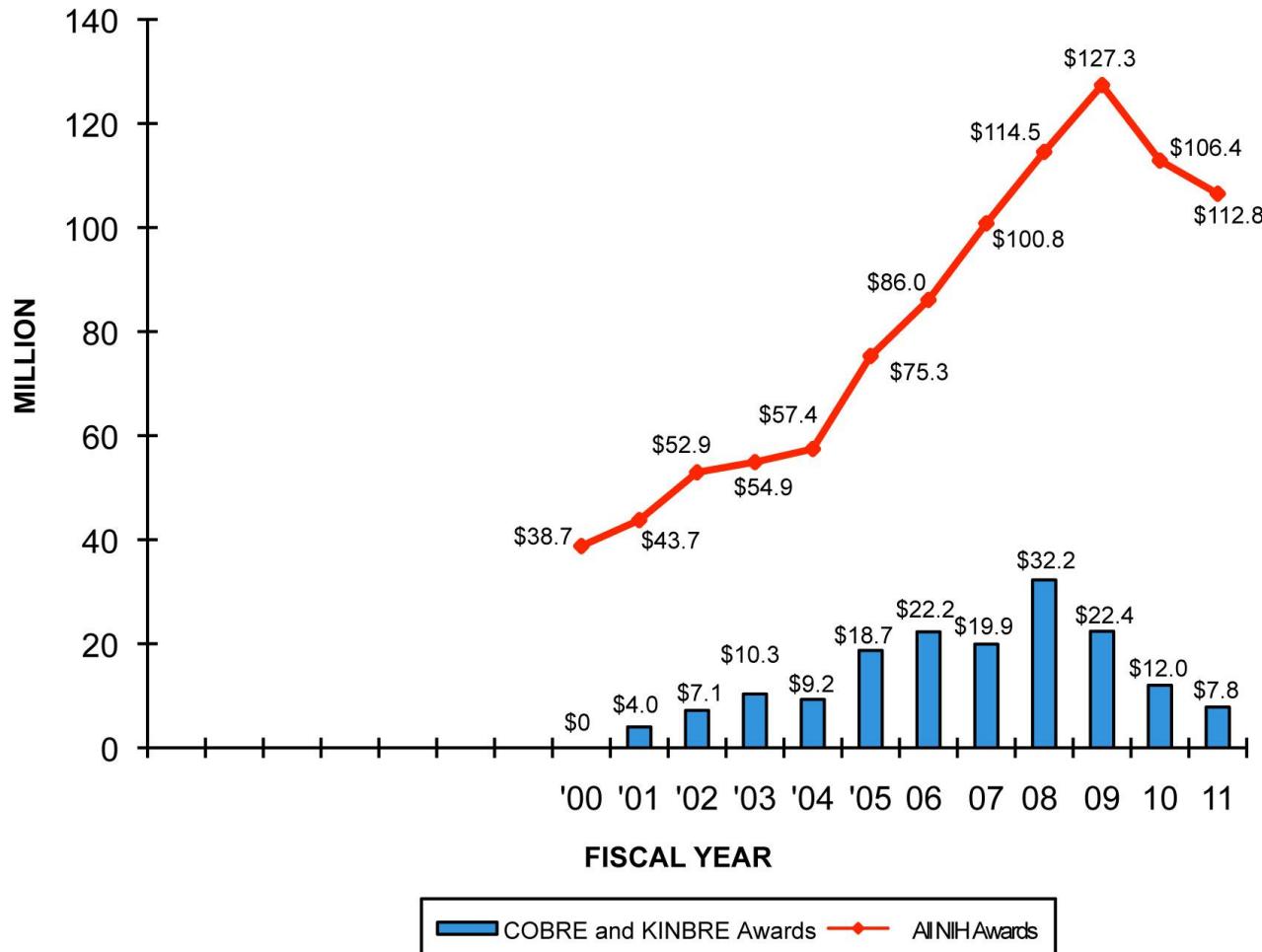
For the State of Kansas:

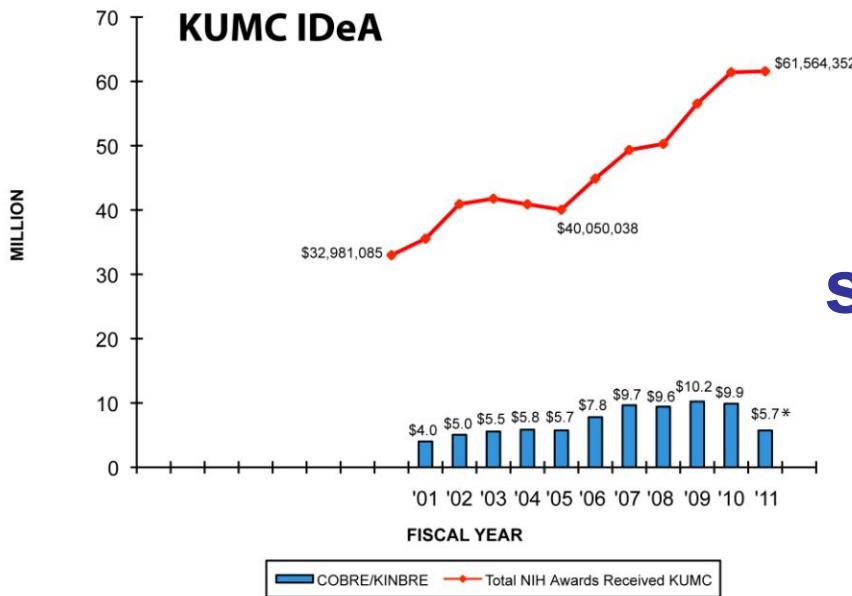
Workforce: Financed research training for 731 undergraduates
Numerous post-docs and new investigators

Kansas biomedical industry: 871 new jobs

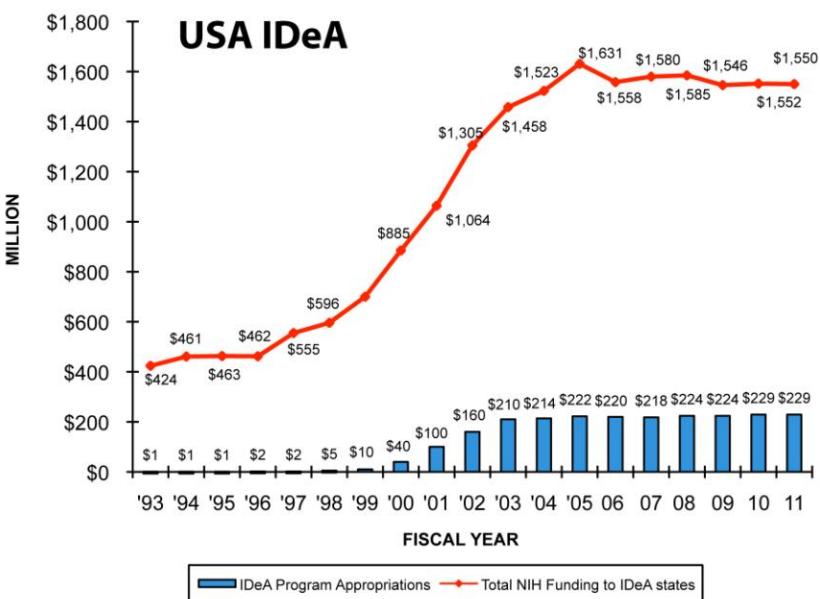
Growing at double the national rate

Total NIH funds for the State of Kansas (red line) and total IDeA funds for the State of Kansas (blue bars) rise and fall in concert





Successful Competition for NIH funds is, in IDeA states, related to allocations from the IDeA program



Above: levels of NIH funding to KUMC parallel levels of funding awarded to KUMC under the IDeA program

Below: levels of NIH funding to all IDeA states parallel levels of funding awarded under the IDeA program.



The University of Kansas

EXIT 204

An International Research University
2008 NCAA Men's Basketball Champions
2008 Orange Bowl Champions