

# Virginia State University



# Institutional Goal

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To promote research, scholarship and creative activities (that involve partnership among students, faculty, and relevant industries or government agencies)

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# Virginia State University Research Capabilities

Dr. Ali Ansari, Dean  
School of Graduate Studies, Research,  
and Outreach

# Research Capabilities (Facilities)

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- Agricultural Sciences
- Biological Sciences
  - Newly Renovated Owens Hall
  - Renovation of Lockett Hall - Facility For Funded Research
- Computer Science
- Computer Information System
- Mathematical and Physical Sciences
- Engineering

# Biology

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Lockett Hall



Owens Hall



# Molecular Biology Research Lab



# Biochemistry Research

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# Cell Biology Research Lab

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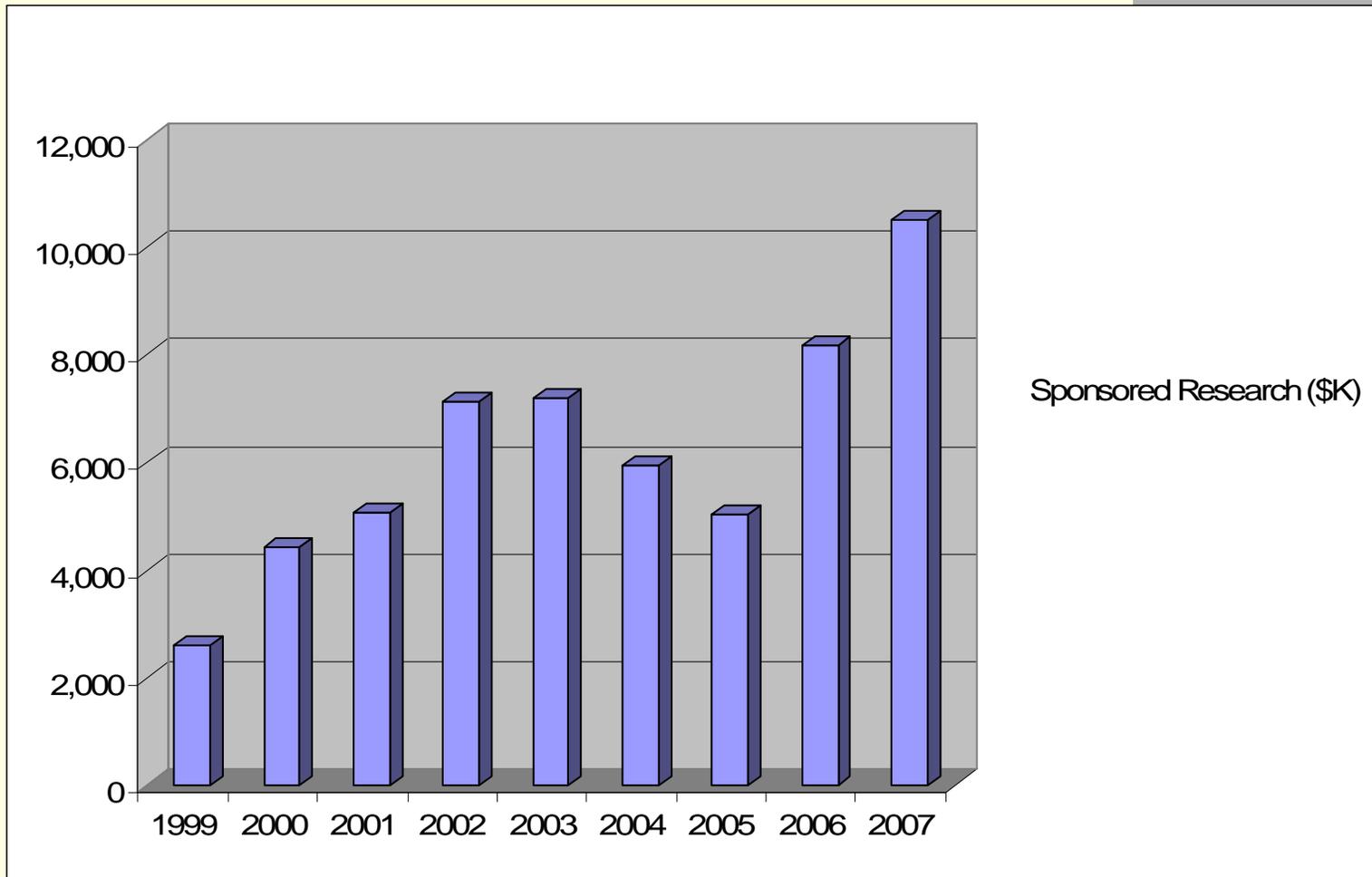
# Tissue Culture Lab



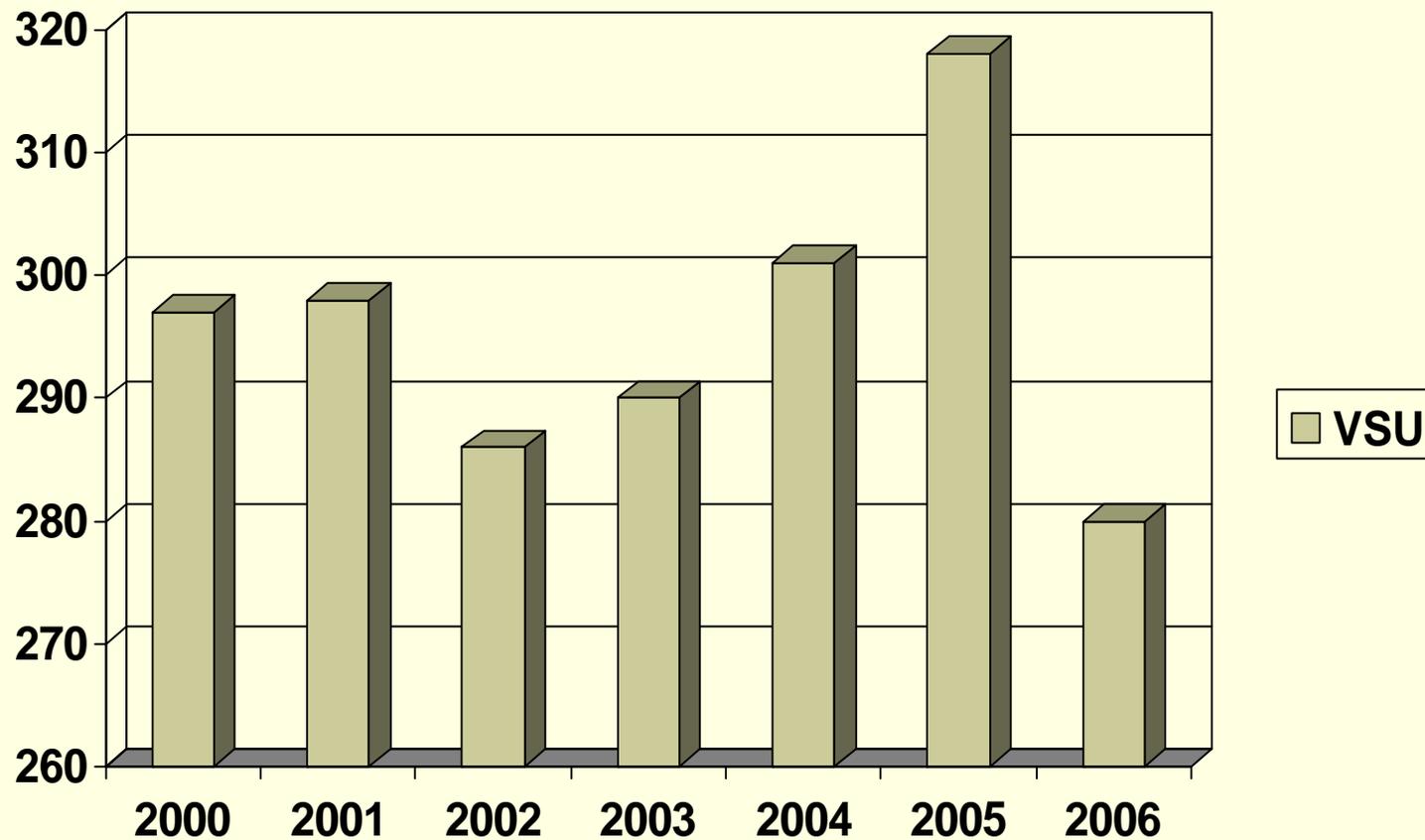
## Federally Funded R&D Expenditures

| Year | Sponsored Research (\$K) |
|------|--------------------------|
| 1999 | 2,611                    |
| 2000 | 4,422                    |
| 2001 | 5,066                    |
| 2002 | 7,144                    |
| 2003 | 7,209                    |
| 2004 | 5,953                    |
| 2005 | 5,048                    |
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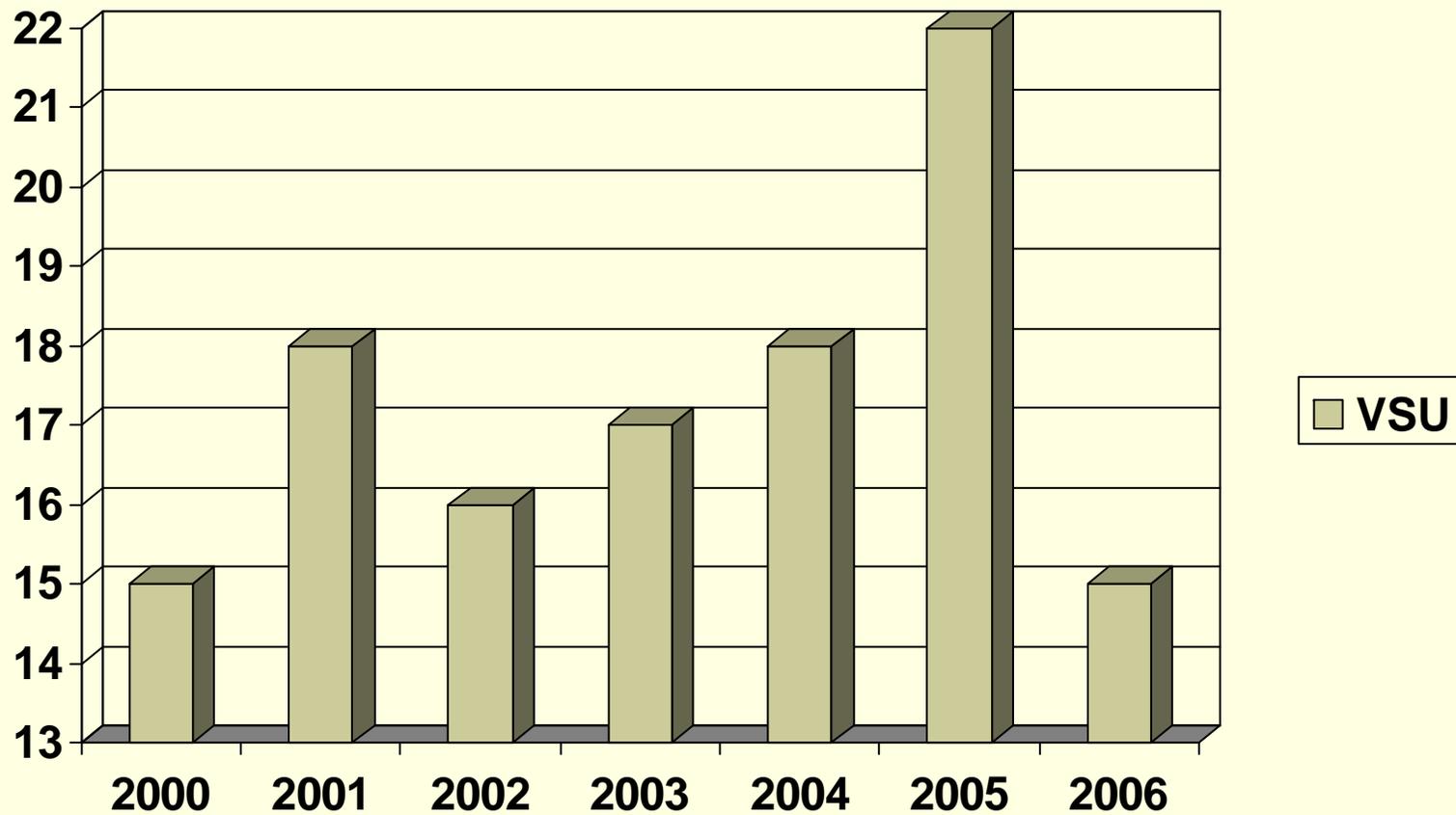
# Federally Funded R&D Expenditures



## VSU National Ranking For Total & Federally Funded R&D Expenditures



## VSU HBCU Ranking For Total & Federally Funded R&D Expenditures



# R&D AWARDS BY AGENCY

| <b>Agency</b>                           | <b>AMOUNT OF AWARD</b> |
|---|------------------------|
| Dept. of Defense (DOD)                  | \$18 M                 |
| National Institute of Health (NIH)      | \$4.3 M                |
| National Science Foundation (NSF)       | \$3.5 M                |
| U.S. Dept of Education                  | \$2.5 M                |
| United States Department of Agriculture | \$1.5 M                |
| U.S. Department of Transportation       | \$1.1 M                |
| Research Initiation Grant (Internal)    | \$650 K                |
| National Endowment for Humanities (NEH) | \$74 K                 |

# HBCU UP Program (\$2.5 M/ 5 Yrs)

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- **Undergraduate Bridge**
  - **Summer Programs for Faculty and Students**
- **Students and Faculty Development**
  - **Undergraduate Research Mentoring Program**
  - **Internship Program**
  - **Seminars and Workshops**
- **Graduate Bridge**
  - **GRE Preparation**
  - **Preparation for Graduate Education**

# NIH-RIMI Program (\$4.2 M/ 5 Yrs)

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- To reduce health disparities
  - To prepare significant number of minority students and faculty in biomedical sciences.
  - To conduct basic biomedical research which will address and ultimately eliminate health disparities.

# NIH-RIMI Program (\$4.2 M/ 5 Yrs)

## Project 1: **Alzheimer's Disease**

**Omar Faison, Ph.D.**

Study of protein in development of Alzheimer's disease.



# NIH-RIMI Program (\$4.2 M/ 5 Yrs)

## Project 2: **Diabetes**

**Glenn Harris, Ph.D.**

Develop innovative methods to find genes responsible for susceptibility to Non-insulin dependant diabetes.

Build an online database to house the information and analysis tools



Non-insulin dependant diabetes is one of the most significant chronic human diseases, affecting over 20 million people in the United States.

# NIH-RIMI Program (\$4.2 M/ 5 Yrs)

**Project 3: Internal Parasite Infections**

**Brian Sayre, Ph.D.**

Genomic Approach to Host Susceptibility or Resistance and Immune Responses to Internal Infections



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# Virginia State University Agricultural Research

**Dr. Alma C. Hobbs**  
**Dean**  
**School of Agriculture**  
**(804)-524-5961**  
**E-mail [ahobbs.vsu.edu](mailto:ahobbs.vsu.edu)**

# Agricultural Research Programs

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- **Aquaculture**
- **Small Ruminants**
- **Plant Sciences**
  - ❖ **New Crops**
  - ❖ **Vegetable Soybean**
  - ❖ **Entomology**
- **Ag Center of Excellence for Plants and Water Quality**
- **Food Science**
  - ❖ **Food Safety**
  - ❖ **Food Nutrition and Chemistry**
  - ❖ **Food Processing**

# Small Ruminants



## Projects

- **Effective assisted reproductive technologies for small ruminants**
- **Feeding and grazing strategies to control Parasites in meat goat**



# Entomology

## Projects:



- **Biological control of pests in greenhouses and high tunnels**
- **Developing native bees for pollination**

# Water Quality (Center of Excellence)

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## Projects

- **Soil and water quality impact assessment of antibiotic**
- **Fate of agricultural chemicals in water and soil**

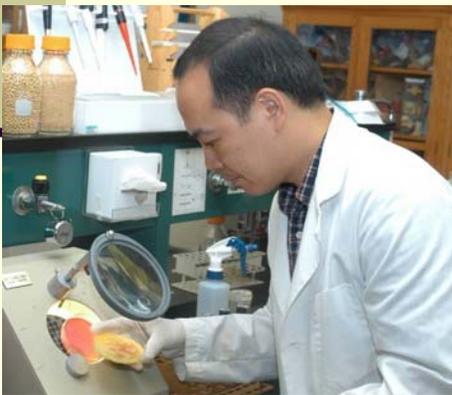
# Food Science

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## Projects

- **Microbiological and chemical safety of raw foods sold on the internet markets**
- **Managing the impact of wild birds on food safety and farm hygiene**



# USAID Funded International Projects



- **Management of the invasive plant, parthenium in eastern and southern Africa (\$520,000/ 4 Yrs)**
- **Farmer-To-Farmer volunteer assistance in Ethiopia (\$1.5 M/ 5 Yrs)**



# Funding

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- **Evans-Allen formula fund USDA-CSREES \$2,259,509**
- **Commonwealth of Virginia \$2,259,509**
- **Grants - implementing projects worth \$3,157,453**

**(Total = \$7,676,471)**

# Train Future Agricultural Leaders



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