

Research & Innovation: *Iowa*

RESEARCH AMER!CA

Iowa Health Facts

- Cancer kills more than 6,400 Iowans per year.¹
- Cardiovascular disease is the leading cause of death, killing more than 9,000 Iowans per year.²
- In 2010, an estimated 69,000 Iowans had Alzheimer's disease and, over 1,200 died from the disease.³
- Health challenges include a large geriatric population and a growing percentage of the population that is obese.⁴

The University of Iowa benefits from National Institutes of Health (NIH) funding

- Designed a comprehensive genetic test to identify causes of deafness in newborns⁵
- One of 25 nationwide sites conducting a clinical trial for a minimally invasive heart procedure for patients with atrial fibrillation⁶
- Pioneering animal models to improve understanding of sudden infant death syndrome (SIDS)⁷
- Evaluating a new therapeutic agent as a treatment for cancer tumors⁸
- Studying ways to maintain bone integrity after paralysis⁹

NIH-funded research at Iowa State University

- Working with families and communities to understand and prevent childhood obesity⁹
- Researching how occurrences of Parkinson's disease may be linked to the surrounding environment⁹
- Designing new therapies that may lead to an HIV vaccine⁹
- The Partnerships in Preventative Science Institute engages in evidence-based prevention strategies to reduce adolescent substance abuse^{9,10}



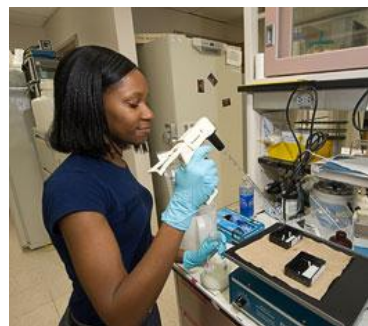
National Institutes of Health

The University of Iowa Research Park

- In 2010, faculty licensing of medical research innovations generated close to \$20 million in revenue, a portion of which was re-invested in the university¹¹
- Bioscience companies located in the Research Park have access to university resources and provide employment opportunities for university graduates¹²
- Vida Diagnostics builds new products to aid in assessing pulmonary disease¹³
- Scientists at the Iowa campus of Vertex Pharmaceuticals, a leading drug manufacturer, are working on new hepatitis C treatments¹⁴

Biotechnology companies in Iowa leverage NIH funding

- Exemplar Genetics develops animal models of human disease and pathologies¹⁵
- Terpenoid Therapeutics, a University of Iowa startup company, builds anti-cancer compounds¹⁶
- Integrated DNA Technologies provides scientists nationwide with custom DNA materials to use in medical research¹⁷
- BioProtection Systems Corporation is developing new vaccines to increase the nation's biodefense capabilities¹⁸



National Heart Lung and Blood Institute

1. [CDC Iowa Fact Sheet](#)
2. [2009 Vital Statistics of Iowa](#)
3. [Alzheimer's Association](#)
4. [America's Health Rankings](#)
5. [UI Press Release](#)
6. [UI Heart Research](#)

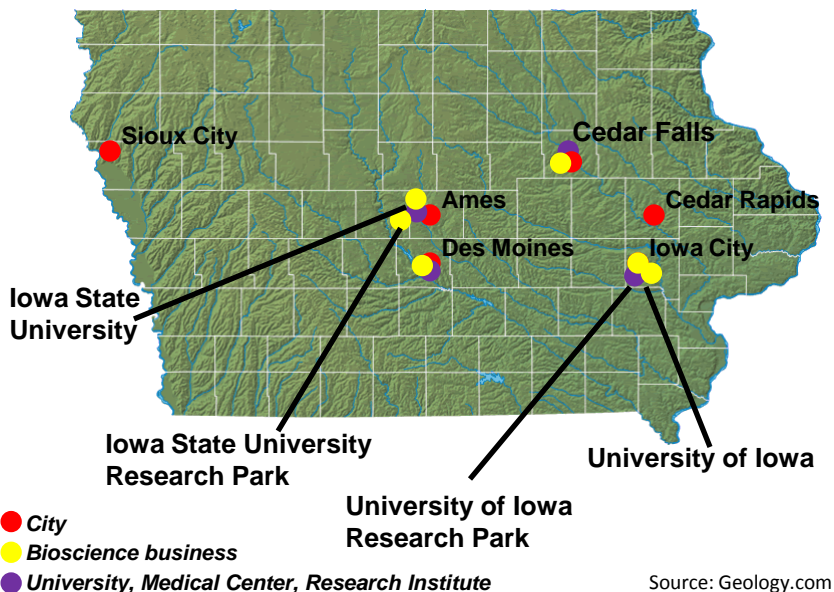
7. [UI Research News](#)
8. [UI Cancer Research](#)
9. [NIH RePORT](#)
10. [PPSI Research Record](#)
11. [UIRF 2010 Annual Report](#)
12. [Research Park Brochure](#)

13. [Vida Press Release](#)
14. [UI Press Release](#)
15. [Exemplar Genetics](#)
16. [Terpenoid Therapeutics](#)
17. [Integrated DNA Technologies](#)
18. [BioProtection Systems Description](#)

Why is funding from the National Institutes of Health Important?

- ✓ Over \$200 million annually from the NIH supports more than 4,500 in-state jobs¹
- ✓ Supports university, medical center and independent research institute studies
- ✓ Creates cures, prevention strategies and treatments
- ✓ Builds the biosciences industry
- ✓ Keeps Iowa competitive

Bioscience Centers in Iowa



Investing in Iowa's Future

- The biosciences industry directly supports more than 14,500 jobs in Iowa.²
- Iowa bioscience employees' average salary is more than \$60,000. The average salary for Iowa workers is \$36,000.²
- Bioscience companies in Iowa increased employment by 4.5% during the 2007-2008 recession, compared with 0.2% growth in other industries, showing remarkable economic resilience.²
- In 2009, 174 clinical trials were initiated in Iowa.³
- There are more than 1,800 companies engaged in the biosciences in Iowa.⁴
- From 2004-2009, almost \$280 million in venture capital was invested in the biosciences in Iowa.³
- In 2011, Iowa received \$4.6 million in NIH Small Business Innovation Research funds to support start up bioscience companies.⁵
- Iowa ranks 25th among all states in NIH funding, significantly higher than its population ranking of 30th.⁶

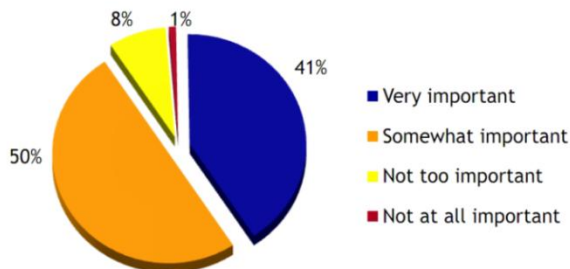
Sources: 2011 UMR Report¹; Iowa Bioscience Plans²; Batelle 2010 Iowa profile³; Bioscience Alliance of Iowa⁴; NIH RePORT⁵; Research!America state funding⁶

"Iowa is poised to make even greater economic gains thanks to its burgeoning biosciences industry . . . There is no better opportunity to create jobs and drive growth than building on Iowa's success in biomedical innovation."

– Rachel Hurley, Iowa Biotech Association, The Des Moines Register, Sept. 22, 2011

Most Americans Think R&D is Important to State Economies

How important do you think research and development is to your state's economy?



Source: Your Congress-Your Health Poll, March 2011, Charlton Research Company for Research!America