Research & Innovation: *Montana*

RESEARCH AMERICA

Montana Health Facts

- ***Alzheimer's disease affected 21,000 Montanans in 2010.[1]***
- ***Cancer was the leading cause of death between 2005 and 2009, killing more than 9,500 Montanans.[2]***
- ***Heart disease was the second leading cause of death in Montana, causing more than 9,000 deaths from 2005 to 2009.[2]***
- ***Health challenges include low immunization coverage and a high occupational death rate[3]***

National Institutes of Health (NIH)-funded research at the McLaughlin Research Institute

• Important discoveries in neurodegenerative diseases like Alzheimer's disease, Prion disease and Parkinson's disease.[4]
• Research to improve recovery from hearing loss.[4]

McLaughlin Research Institute for Biomedical Sciences

NIH-funded research at Montana State University (MSU)

• Discovery of a compound to eliminate biofilms on medical equipment[5], which will aid in preventing infections in hospitals and other public settings.[6]
•MSU is developing therapies for lung damage from pneumonia[7], which along with Influenza killed more than 900 Montanans between 2005 and 2009.[2]

Growth of the bioscience industry in Bozeman

• LigoCyte Pharmaceuticals works with MSU to create drugs that fight inflammation.[8]
• Microbion partners with MSU to develop its effective compound for biofilm removal, which is necessary to sterilize hospital equipment.[9]

National Institutes of Health

NIH grants lead to new discoveries at the University of Montana (UMT)

• *R*esearch to repair damaged blood vessels in collaboration with the International Heart Institute, another Montana research center.[10]
• UMT is exploring novel treatments for Alzheimer's disease.[11]

Biotechnology companies formed

• Promiliad Biopharma, a startup company developed through UMT, develops antifungal and antibacterial products to alleviate the spread of contamination and infection.[12]
• Rocky Mountain Biologicals, a startup from UMT, develops technology for blood analysis and provides products for research use.[13]

National Institute of Allergy and Infectious Diseases

The NIH's Rocky Mountain Labs

• The National Institute of Allergy and Infectious Diseases of the NIH has provided a research base in Montana, focusing on treatments and cures for infectious diseases.[14]
• Employs 400 Montanans.[14]

Billings is home to NIH-funded clinical research

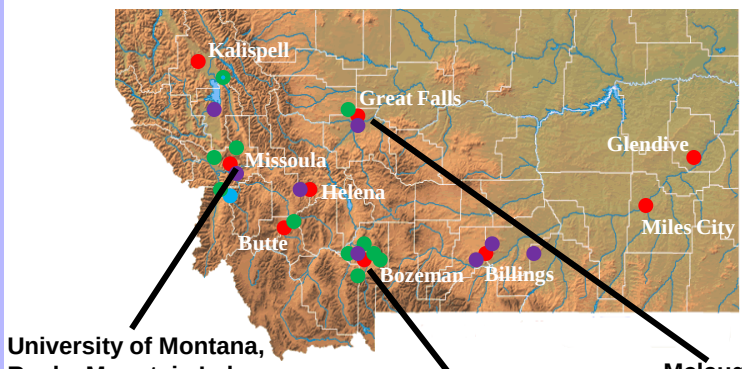
• The Montana Cancer Consortium is a nonprofit, NIH funded institute that sponsors clinical trials for new cancer treatments.[15]
• The Montana Health Research Institute is a nonprofit institute that conducts clinical trials for drugs to treat diseases such as Type II Diabetes and high blood pressure.[16]

1. Alzheimer's Association- Montana
2. Montana Health and Human Services
3. America's Health Rankings
4. MRI Annual Report 2009-10
5. Montana State – Biofilm
6. Medscape – Biofilms
7. Montana State – Pneumonia
8. MATR News – LigoCyte
9. MT.gov – MSU & Microbion
10. UMT – Intl Heart Institute
11. NIH Reporter
12. OHIO- Promiliad
13. Rocky Mountain Biol.
14. Rocky Mountain Labs
15. Montana Cancer Consortium
16. Montana Health Research Inst

Why is funding from the National Institutes of Health important?

- ✓ *Supports university and independent research institute research*
- ✓ *Trains new scientists*
- ✓ *Creates cures, preventions and treatments*
- ✓ *Builds the biosciences industry*
- ✓ *Keeps Montana competitive*

Bioscience Centers in Montana



University of Montana, Rocky Mountain Labs, Missoula and Hamilton

Montana State University, Bozeman

Mclaughlin Research Institute, Great Falls

● Cities ● Bioscience company
● Universities, Colleges and Institutes

Source: Geology.com

Investing in Montana's Future

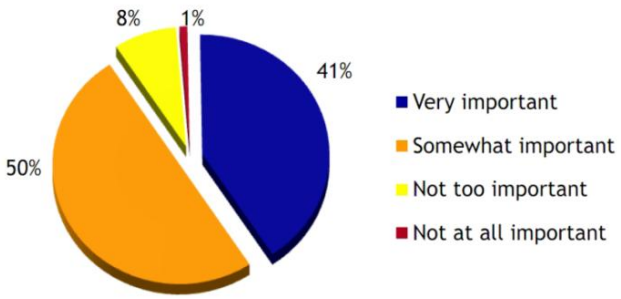
- **Montana bioscience institutions directly employ more than 1,700 Montanans and support more than 5,100 jobs state-wide.***
- **The average annual salary for a Montana biotech employee is $49,500.* (The average annual state-wide salary is $36,000.**)**
- **Bioscience employees account for 44% of Montana's manufacturing work-force.#**
- **$54 million in NIH funding in 2010 supported approximately 1,000 in-state jobs.##**
- **Montana benefits from the NIH Institutional Development Awards (IDeA) programs, which provide opportunities for the state to greatly expand in bioscience.*****
- **Montana start-up bioscience companies have received millions in NIH Small Business Innovation Research funds to develop pharmaceuticals and health products for the market.******

Sources: * MT.gov, #Montana Bioscience Alliance, ##UMR Report, 2011, **Department of Labor , ***National Center for Research Resources, ****Grants.NIH.gov- SBIR/STTR data

"Our current times require that not just scientists speak up, but that all of us who see the long-term value of science voice a call to continue making our national investment in research a priority. Research is the key to Montana's future." – Dr. Richard Bridges, University of Montana, Billings Gazette, April 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

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