



FY 2012 Funding for the NATIONAL INSTITUTES OF HEALTH April 2011

Position: The Council for Chemical Research (CCR) urges FY12 funding for NIH of at least \$33.2 billion in order to account for increased costs due to inflation. The President's proposed \$31.8 billion budget will not maintain existing programs, since the estimated annual inflation rate in the biomedical field is 3.5%. We specifically support additional funding for the National Institute of General Medical Sciences (NIGMS) and the National Institute of Biomedical Imaging and Bioengineering (NIBIB). These institutes fund research that lead to innovations that underlie both biomedical research and clinical applications.

Who We Are: CCR is a non-profit organization dedicated to advancing multi-sector, multi-disciplinary research in the chemical sciences and engineering. Its member organizations – companies, universities and government laboratories – are represented in CCR by their research leaders.

We strongly urge the important components of funding for physical sciences research be maintained. Our studies (<http://www.ccrhq.org/publications>) and those of others demonstrate that Federal investments in chemical science research yield significant payback for the US economy. **Every dollar of Federal investment is leveraged by \$5 of private investment; this investment generates \$10 of operating income for industry (a 17% annual after tax return), the economy gains roughly \$40 in GDP and \$8 in increased tax revenues. A highly regarded CCR study showed that for 2001 the overall \$1B Federal investment in chemical R&D will create 600,000 new jobs over the following 20 year period.**

Rationale

The NIGMS provides enabling research and training that underpins advances and discoveries of all of the other NIH institutes. This Institute is responsible for the basic knowledge and new technologies at the foundation of all discoveries in the biomedical field. The mission of the NIBIB fosters new medical paradigms that include early diagnosis and treatment in order to improve health and reduce cost.

Funding for basic research in chemistry, particularly by NIGMS and NIBIB:

- **Provides innovations that will reduce America's healthcare costs.** NIBIB supports research in health care IT and early diagnostics and treatment that will transform medical paradigms and result in more successful treatments and major health care cost reductions. NIGMS supports research that discovers new drugs that can control disease and prevent more expensive treatments. These advances are essential to controlling exploding health care costs.
- **Serves as a basis for biomedical advances.** Funding has led to combinatorial chemistry methods and rational drug design, which allow for the more efficient development of pharmaceuticals having greater potency, higher selectivity, and fewer side effects.
- **Provides well-trained, talented, and dedicated researchers.** Training programs at NIGMS develop the multi-disciplinary skills demanded by modern biomedical and pharmaceutical research. Well-trained researchers not only increase productivity for the rapidly expanding biotechnology, pharmaceutical, and diagnostic industries, but also help maintain the world leadership of these industries in extremely competitive markets.
- **Leads to discoveries that protect against biological and biomedical threats,** both natural and those created by terrorists.
- **Provides access to modern instrumentation,** ranging from computers to high-field nuclear magnetic resonance spectrometers, laser systems, and mass spectrometers. These instruments enable researchers to observe fundamental chemical and biomedical processes involved in life and to gain much-needed insight into the chemistry of living organisms.
- **Provides the underpinnings for research in clinical areas** that will have a long-term effect on resisting both bio-terrorism and natural outbreaks of disease.