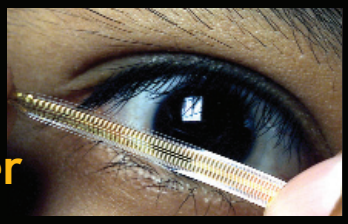
CBBB

CBBB INFORMATION

About the Center

CENTER FOR
Biotechnology
Biophysical Sciences
Bioengineering

Team Science For Life



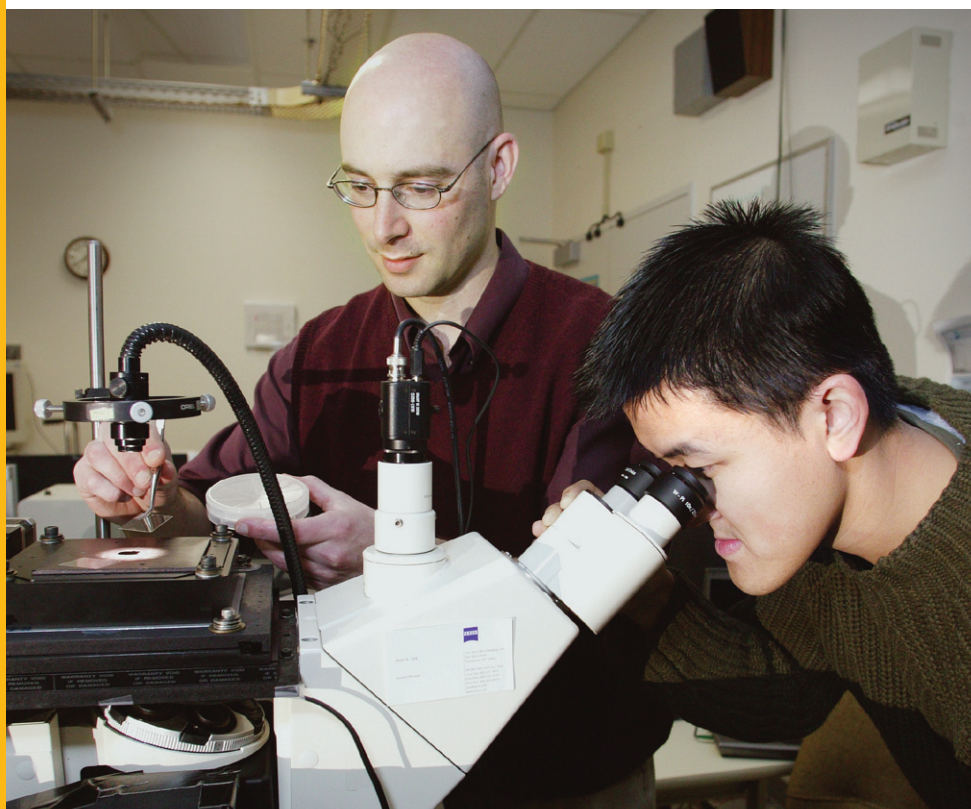
About the Center

Introduction

For years, the physical science and engineering arena has been segregated into classical disciplines such as chemistry, physics and mechanical and electrical engineering. The Lawrence Livermore National Laboratory has always formed multidisciplinary scientific teams to address national security concerns as well as create new scientific breakthroughs and important technologies. As part of that continuing movement, the Laboratory's new Center for Biotechnology, Biophysical Sciences and Bioengineering combines the skill sets of physical and life scientists as well as engineers to address national needs in bioscience, medicine and the environment.

One-Stop Shopping

In response to numerous needs in the medical arena, LLNL scientists working outside of their traditional disciplines have already created several medical devices and diagnostic tools by collaborating with researchers in other disciplines and institutions to respond to biomedical needs. The Center would serve as a one-stop shop where academic and private researchers could partner with any number of scientists to develop and apply cutting-edge technologies to bioscience, medical and environmental challenges Examples include: a physicist and biologist working together to create a molecularly targeted cancer therapy; an engineer and biologist working on an instrumented cell to study how cells respond to different therapies; and a physicist developing a laser light-scattering method to detect cancer.



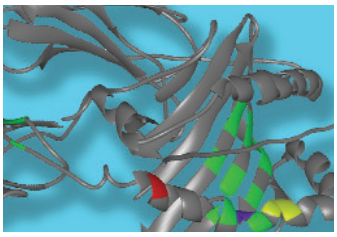
CBBB Team Science For Life

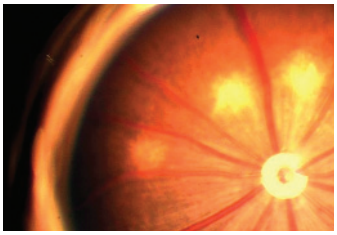
Goal

Scientists and engineers in LLNL's Engineering, Physics & Advanced Technologies, Chemistry & Materials Science, Biology & Biotechnology Research Program, Computation and Energy & Environment directorates work together to address bioscience, medical and environmental challenges. By partnering with academic research centers and industry, LLNL scientists can work to develop and commercialize new biomedical technologies.

Mission

With a slogan of "Team Science for Life," Center personnel will manage a biotechnology program within the UC Davis/LLNL Integrated Cancer Center; host seminars, briefings, workshops and symposia; represent LLNL at University of California systemwide symposia and business meetings; develop a government, foundation and private industry funding base; and serve as a point of information for the Department of Energy, the National Institutes of Health and other agencies seeking participation of LLNL in grant writing, workshops and new initiatives.

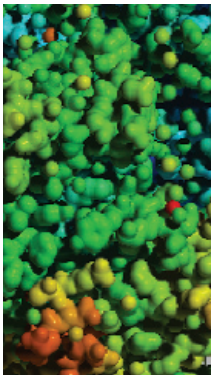


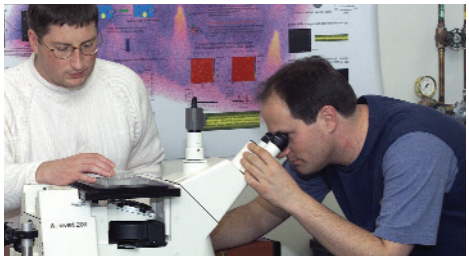


Funding

To date, the Center has a $650,000/annum in Laboratory funds through stipends and outside fund support from the Engineering, Physics & Advanced Technologies, Chemistry & Materials Science, Biology & Biotechnology Research Program, Computation and Energy & Environment directorates.

During the next 10 years, the Center will become an indispensable national asset for biotechnology by working with other agencies, foundations and private industry to develop national initiatives in the biosciences and allied fields.





The Center for Biotechnology, Biophysical Sciences, and Bioengineering is located in building 142 at LLNL.

To learn more about the Center, please contact:

Dennis L. Matthews, Ph.D
CBBB Director

Ph. (925) 422-5360
Fax (925) 424-2778
E-mail dmatthews@llnl.gov

Lawrence Livermore National Laboratory
7000 East Avenue L-211, Livermore, CA 94550-9234

Find us on the web at: http://www.llnl.gov/cbbb/