

**EXECUTIVE SUMMARY [NON-CONFIDENTIAL, NON-TECHNICAL ABSTRACT FOR PUBLIC INFORMATION OR PROGRAM PROMOTION]:** State the application's broad, long-term objectives and specific aims, making reference to the potential public benefits of the project relevant to California. Do not include proprietary or confidential information. This may be distributed before the funding decision has been finalized.

Phage display is a new and growing technology in the area of Biotechnology. This technology provides a method for generating a novel class of diagnostic and therapeutic biomolecules.. It is already having a significant impact on agriculture; it has been using to generate nutritionally modified and pathogen resistant plants . The technology is also being used in the fight against cancer. Incorporation of this technology into research labs should result in a dramatic increase in unique applications for this technology. Moreover, a new generation of students will gain invaluable experience in the technology. This is critical to California , the leader in Biotechnology.