

EXECUTIVE SUMMARY [NON-CONFIDENTIAL, NON-TECHNICAL ABSTRACT FOR PUBLIC INFORMATION OR PROGRAM PROMOTION]: State in layman's terms 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.

The San Diego State University Bioscience Center will be the interface between academics and biotechnology in the San Diego community. The Center will contribute significantly to both the teaching and research missions of San Diego State University and enhance faculty development in the Colleges of Sciences, Professional Studies and Fine Arts, and Health and Human Services. The purpose of this grant application is to seek support for full utilization of new instrumentation (GC mass spectrometry and LC mass spectrometry), purchased in part by support from the NIH, which has been incorporated into a novel metabolic core facility in the Bioscience Center. This cutting-edge technology will be used to develop new techniques to identify important bio-reactive molecules that are responsible for altering normal function and/or causing disease. The purpose of the application is to seek matching funds to implement this technology for the teaching and research missions of San Diego State University. The instrumentation will be used by faculty and students for research, be incorporated into courses for both undergraduate and graduate students and contribute to faculty development in departments across the University. In addition, we have hopes that the facility will eventually be used by individuals at other CSU campuses, so that it can contribute to faculty development system-wide.