

# Solutions in the Sea



**William Fenical**

Distinguished Professor, Center for Marine Biotechnology and Biomedicine

## CURRENT RESEARCH

### Exploring the oceans for cures to treat cancer and infectious diseases

The oceans offer enormous promise in the treatment of human disease. As the need for new drugs increases, we need to turn to the oceans as our most expansive untapped natural resource. Dr. Fenical and his work at the Center for Marine Biotechnology and Biomedicine has already impacted cancer patients by delivering cures in at least one cancer (cutaneous marginal zone lymphoma) and current work promises to impact other cancers such as melanoma. Our work in infectious diseases, specifically with MRSA infections (methicillin-resistant *Staphylococcus aureus*) has provided clear evidence that new marine antibiotics will be discovered to provide effective treatment for drug resistant infections. Dr. Fenical's research provides clear societal impact, contributes to commercial development, and contributes promising academic discoveries.

- They have made many discoveries resulting in four or more drugs in development for cancer and inflammatory diseases.
- They have created two local companies as spin-offs of our research and have collaborated with the University of California, San Diego School of Medicine for more than 10 years.
- They are training the next generation of scientists that will carry on implementing important research in exploring the world's oceans.

The oceans are our last great frontier for biomedical discovery. This program is unique on a world-wide level and growing as Dr. Fenical and his team demonstrate how prolific marine biomedical research can be. Dr. Fenical's vision is that we continue to expand on the number of discoveries from the ocean for 21st century medicine and...

## AFFILIATION

-  University of California, San Diego

## EDUCATION

- Ph.D. in Organic Chemistry 1968, University of California, Riverside
- M.S. in Organic Chemistry 1965, San Jose State University
- B.S. in Biochemistry 1963, California State Polytechnic University

## AWARDS

- William Fenical Named AAAS Fellow

## RESEARCH AREAS

Environment, Oceanic, Oncology / Cancer

## FUNDING REQUEST

Your donations replace government and pharmaceutical funding for research which is rapidly dwindling. With four drugs currently in development, Dr. Fenical seeks support for the development of a current drug candidate for melanoma and to expand this work in the area of neurodegenerative diseases. This program offers new treatments for the most dangerous of contemporary diseases.

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