

# <image><equation-block>

# **Conotoxins: Agents for Pain**







## **Marine Microorganisms: The Next Frontier**



Feling et al. (2003) *Angew. Chem.* 42:355-357. Mincer et al. (2001) Appl. Environ. Microbiol. **68**: 5005-5011



### Additional Current and Future Applications for Marine Microorganisms

Bioremediation of hazardous waste and polluted environments.

"Probiotic" agents to protect cultured finfish and shellfish against marine diseases.

Some cyanobacteria are used as nutritional supplements (e.g. spirulina).

Development of microbial fuel cells to power ocean instrumentation in remote locations.

### **Further Development and Understanding of Services Provided by Marine Genetic Resources**

Conservation of marine ecosystems.

Access to remote environments.

Cross-disciplinary collaboration among scientists and engineers.

Knowledge sharing through open-access databases.