



EMSL, WSU Awarded Collaborative DOE Grant

A joint proposal for collaboratively studying protein interactions of the organism *Shewanella oneidensis* was one of 10 selected from 70 proposals to receive funding under the prestigious DOE Microbial Genome Program.

The proposal was submitted by Gordon Anderson, EMSL Instrument Development Laboratory Technical Group Leader, and James Bruce, Associate Professor of Chemistry at Washington State University (WSU). Bruce is a former employee of the Pacific Northwest National Laboratory, on whose campus EMSL resides.

The three-year project will provide \$220,000 and \$120,000 of funding per year to the teams of researchers at WSU and EMSL, respectively.

The Microbial Genome Program was implemented in 1994 to study the DNA of microbes that have probable use in helping DOE address its challenging missions in environmental waste cleanup, energy production, and biotechnology. The focus of the EMSL/WSU research—*Shewanella oneidensis*—has garnered much interest for its potential bioremediation capabilities in the area of groundwater cleanup.

Under this collaborative project, researchers will develop and apply next-generation, genome-wide technologies—based on chemical cross-linking agents, mass spectrometry methods, and informatics—to better visualize and comprehend protein interaction networks in biological systems. The WSU research team will perform chemistry and methodology development, develop the cross-linking agents, and conduct the necessary experiments, while EMSL Instrument Development Laboratory staff will be responsible for information management and beta analysis. The work—scheduled to begin in October 2004—will be conducted using the facilities and capabilities at both institutions.

“This is very exciting for EMSL’s Instrument Development Laboratory because it is the first time we co-proposed with an external organization, and we won the proposal,” says Anderson.

For more information, contact Gordon Anderson (509-376-9558).

P.O. Box 999 Richland, WA 99352 • <http://www.emsl.pnl.gov> • 509-376-2553