

VCU Research spotlights...

Biological Macromolecule Core Laboratory

Tuesday, March 1, 2011

Core Description:

The Macromolecule Core (for short) is a new core consolidating the services previously offered through the Molecular Biology Core Facility and the Virus Vector Core Facility, with the addition of a new service for recombinant protein production and purification. The new protein production and purification services allow custom-scale recombinant protein production in your choice of bacterial, yeast, insect, or mammalian systems. This includes both transient and stable protein expression in mammalian cells. Protein endpoints are suitable for structural analysis, protein interaction studies, or other application.



The core is co-directed by Shirley Taylor, PhD, who brings molecular biology, cell culture and protein expression experience. Darrell Peterson, PhD, a protein biochemist, brings extensive experience in protein production and purification.

Goal:

The overall goal of the Macromolecule Core is to facilitate and implement the production of macromolecules for multiple end points, both within the Macromolecule Core and interfacing with other core facilities.



Pictured -- left to right: Kimberly Stratton, M.S., Pamela Melone, M.S., Letta Jenkins, and Shirley Taylor, PhD.

What Services does the Macromolecule Core provide?

- Plasmid Preps
- Transformations
- Insert Purifications
- siRNA's through Invitrogen and Qiagen
- Genomic DNA Isolation
- Virus Construction, Purification and Titering Services
 - Adenovirus
 - Retrovirus
 - Lentivirus
 - Mouse retrovirus

- Protein Expression
- Protein Production & Purification
- Design, Construction and Validation for generation of new vectors
- Custom DNA Projects
- Dry Ice and Liquid Nitrogen Services

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For more information:
<http://www.pubinfo.vcu.edu/mlbiocre/default.htm>