

Final Technical Report
DE-FG02-05ER64075
Awardee: Saint Peter's College

The objective of this grant was to purchase state-of-the-art equipment to permit research and teaching in biotechnology at Saint Peter's College. This objective was met. A more comprehensive list of equipment purchased is listed below. The equipment purchased was divided into five platforms depending on the nature of the projects that they were to be employed in. The equipment is being utilized in existing courses such as Human Genetics, Biochemistry, and Research as well as newer courses such as DNA Recombinant Technology, Tissue Culture, Molecular Biology, Microscopy and Histochemistry. This equipment has significantly enhanced the educational experiences for undergraduate students in Biotechnology. Saint Peter's College trains graduates who will be able to step into a wide variety of careers in the Pharmaceutical Industry, Clinical Laboratory Testing and Basic Biotechnology Research. These are the positions that are expanding rapidly in the country and provide excellent financial compensation for those trained in this field.

Some funds were used for trainee travel and contractual service contracts for the purchased equipment.

Equipment Purchased

Platform I Recombinant DNA technology -

Microarray Laser Reader
Array Kits & Probes
Micropipettes
PCR equipment
Centrifuges
Shakers
Incubators and Balances

Platform II Cytogenetics -

Research Scope
ASI Cytogenetic System
Brandview Fish Expo System
& Computer
Fishview Expo System
Color Wheels and Computers

Platform III Micromanipulator -

Lica Micromanipulator/Microscope

Computer System

Platform IV Biotechnology Support -

LP Chromatography Systems

Fluormeter

Electrophoretic Systems

Histology/Histochemistry

System

CBS Gel Systems

Microscopes/Digital Cameras

Spectrophotometer System

Balances, Ph Meters

Micropipette Workstation

Immunoassays

Refrigerators/Freezers

Digital Gel Cam System

Platform V Computer Assisted Image Analysis

Confocal Microscope & Computer

Assisted Equipment

Other Costs

Trainee Travel -

For the faculty to attend workshops to learn how to use the equipment.

Subcontracts -

For contractual service, repairs and maintenance of equipment.