

Protein Structure Analysis and Modeling (PSAM) Core Facility

The PSAM Core Facility is a collaborative effort between the CABM and the RWJMS Cancer Institute of New Jersey (CINJ). Since it was established in March 2005, PSAM has provided services and collaborations in protein expression, purification, and sample production, as well as 3D structure analysis and homology modeling for CINJ scientists. The goal of the facility is to provide assistance in research programs and grant applications.

PSAM is partially funded by CINJ and by the NIH Protein Structure Initiative as a Community Outreach activity of the Northeast Structure Genomics (NESG). PSAM is equipped with state-of-the-art modern molecular biology and biochemistry facilities, and has regular access to high throughput crystallization screening, high field NMR machines, and synchrotron X-ray beam lines at Brookhaven. The scientists who conduct services at PSAM are all well trained PhD researchers with versatile expertise, including bioinformatics analysis, homology structure modeling, DNA cloning and protein expression, protein purification and characterization, and structure determination by NMR and/or X-ray crystallography methods.

The cost for CINJ members is greatly reduced because the user fee is only 1/3 of the actual cost. For some interesting structural biology projects, PSAM scientists have established scientific collaborations. Projects to date have been attempted or completed with more than 10 CINJ members.

Services and Pricing

Services, included those listed below, and price, are outlined on the web site.

- Expression Vector Construction
- Protein Expression, Purification, and Sample Production
- 3D Structure Analysis
- NMR
- Crystallography
- Homology Modeling

For more information please contact Dr. Montelione or Dr. Guan directly.

**The Cancer Institute
of New Jersey (CINJ)**

Directors of Facility:

*Gaetano Montelione, PhD
and
Rongjin Guan*

Primary Contacts:

*Professor Gaetano
Montelione
and
Rongjin Guan
Research Assistant Professor*

Phone:

732-235-5321
732-235-5327

Fax:

732-235-5633

Email:

guy@cabm.rutgers.edu
guan@cabm.rutgers.edu

Website:

<http://www-nmr.cabm.rutgers.edu/corefacility/index.htm>

Hours of Operation:

Normal work schedules
(5 days a week, 8 hours
each week day)