



Dr. Debashis Ghosh, HWI Scientist
First in World to Solve Structure of Key Breast Cancer Target

A Major Effort

For more than 50 years, the Hauptman-Woodward Institute has been a world leader in crystallographic theory and practice in structural biochemistry and biology. As we continue to grow, we will be recruiting at all levels to join our team. If you are looking for an exciting professional environment utilizing state-of-the-art technologies which encourages collaboration and cooperation among staff members and provides you with the freedom to develop your own independent research program, then HWI is the right place for you.



Structure of human placental aromatase. Aromatase is the key enzyme in producing estrogen. By knowing this structure, drugs can be designed to block the production of estrogen which can help 75 to 80 percent of breast cancer patients.

Who is Herbert A. Hauptman?



Dr. Herbert A. Hauptman

Dr. Herbert A. Hauptman received the Nobel Prize in Chemistry in 1985 for the development of direct methods, a mathematical technique used to determine the three-dimensional structures of molecules. To honor the distinction Dr. Hauptman brought to our organization and to recognize the generosity of our benefactor, Helen Woodward Rivas, the Foundation changed its name to the Hauptman-Woodward Medical Research Institute, Inc. in 1994. The change was made not only out of respect for these two individuals, but also to emphasize the importance of the partnership that exists between science and philanthropy

Who are the other employees?

HWI is composed of scientists from the United States, Russia, India, China, Japan and many other countries. Our scientists are published nationally and internationally and collaborate with colleagues all over the world. In addition to the scientists, HWI employs laboratory technicians, technical support staff and administrative staff who are an integral part of the HWI mission.

HWI is an equal opportunity employer and strongly encourages talented individuals of every race, nationality, creed and gender to apply.

To apply for a position, please contact:

Eaton E. Lattman, Ph.D.

Executive Director and Chief Executive Officer

**Hauptman-Woodward
Medical Research Institute**

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Email: recruitment@hwi.buffalo.edu

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Recruiting for the Future



"We have a very enviable reputation.
We have a very good group of scientists."

Herbert A. Hauptman, Ph.D.



**HAUPTMAN-WOODWARD
Medical Research Institute**

Hauptman-Woodward is home to a staff of more than 80 talented individuals. Each staff member is committed to improving human health by studying disease causes and therapies at the molecular level. HWI attracts the brightest scientists with promising research agendas and provides them with the freedom to pursue their passion for science. In addition, team members working in dynamic management, administrative, technical and other support positions also are key contributors to HWI's success.



Dr. Vivian Cody

Our Research

At HWI our current research focuses on two areas:

- Structural biological research concentrated on investigation of important macromolecules utilizing techniques of molecular biology, functional biochemistry, and structure determination through X-ray crystallography.
- Methods development research to design the next generation of hardware and software tools for biostructure determination. Current areas include research on automated, high throughput screening for, and optimization of, conditions for biomacromolecular crystallization; on analysis of ultra-high resolution data collection, processing and refinement; and on mathematical and computational methods of solving the phase problem of structure determination by diffraction methods.

Our University Affiliation

In 2001, the Hauptman-Woodward Institute was named as the Department of Structural Biology in the School of Medicine and Biomedical Sciences at the State University of New York at Buffalo. The creation of the department reflects the commitment of the HWI faculty and the University, to training the next generation of structural biologists. All research scientists at HWI are appointed faculty members in the department and supervise graduate students who join the University through the Interdisciplinary Graduate Program in Biological Sciences.

The Hauptman-Woodward Structural Biology Research Center

The HWI facility has three major components: an office complex, a glass-enclosed atrium, and a laboratory complex. Two floors of the building are devoted completely to scientific endeavors comprised of offices for scientific staff and laboratory facilities.



Hauptman-Woodward's New Building

Our new facility includes:

- Protein Production and Purification Facilities
- Cell Culture Rooms
- Cold Rooms
- Radioisotope Laboratories
- Chromatography Rooms
- Environmental Rooms
- Crystal Growth Robotics Laboratories
- High Throughput Crystallization Screening
- X-ray Diffraction Facilities
- 38 Wet Laboratory Modules

Our Location:

The Hauptman-Woodward Institute is located in the heart of the Buffalo Niagara Medical Campus, a consortium of the region's premier clinical care, life sciences research, and medical education institutions founded to cultivate a world-class medical campus on 100 acres in downtown Buffalo. Our facility is one of three buildings that together comprise the Buffalo Life Sciences Complex.

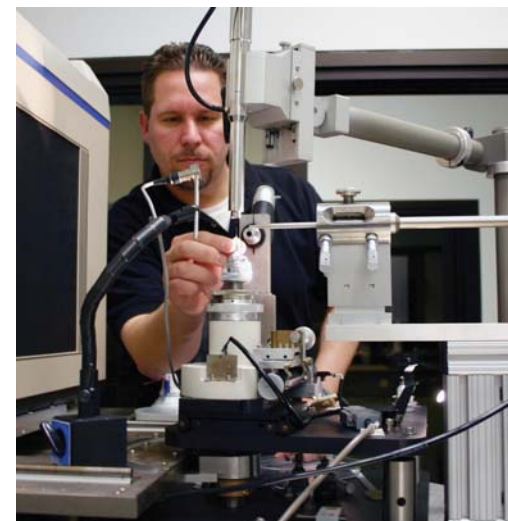
Recruiting New Scientists

Through our recruitment effort, HWI has the opportunity to expand our faculty of research scientists. We are seeking candidates in fields who will complement the current strengths at HWI. In particular we are looking for scientists studying macromolecular function through biochemical and biophysical techniques, enzymology, proteomics, and protein engineering; the development of innovative crystallographic methods and structural biomedical research. We also are seeking research associates who will fit in the collaborative and productive community at HWI. Scientists will be expected to develop their own independent research programs.

HWI strives to create an environment of learning and development for scientists of all levels. Graduate students in the UB/HWI Structural Biology Department are trained in the principles and practice of the main methodologies of structural molecular biology. Postdoctoral Fellows gather from all over the world to broaden their research and deepen expertise in the HWI research facilities.

To maintain Hauptman-Woodward as a successful institution, our support staff is responsible for administration, financial management, computer systems, development, public relations and graphic design.

It is our commitment to the life sciences and our fight against deadly diseases that drives the HWI team to excellence, growth and distinction.



Dr. Michael Malkowski