# FACILITIES & OTHER RESOURCES

## **Other – Scientific Environment**

***Medical College of Wisconsin (MCW)*.** MCW faculty received >$115 million in NIH funding in FY2021 and is ranked 49th among the 143 Medical Schools in the country regarding NIH funding levels. MCW’s 5,400 faculty and staff contribute to educating 811 medical students and 400 graduate students each year in seven basic science departments and numerous clinical departments.

***Department of Biochemistry*.**The Department of Biochemistry at MCW received >$5.8 million in NIH funding in FY2021 and is ranked 45th among 96 Departments of Biochemistry in medical schools in the country regarding NIH funding levels. The 14 tenured and tenure-track faculty members provide an exceptionally collaborative and collegial atmosphere for the 24 current graduate students in the department.The Department of Biochemistry comprises faculty whose laboratories study a diverse range of NIH-funded, medically-relevant topics, employing a diverse range of biochemical and biophysical techniques in their studies. As such, frequent formal and informal collaborations are available within the department to investigate problems ranging from structural to cell and developmental biology. The unifying theme is an interest in biological processes at the molecular level.

The Department of Biochemistry employs four full-time administrative assistants whose time and efforts are available to all Department of Biochemistry faculty. One of these administrative assistants is allocated to support the **Program in Chemical Biology**. Administrative support is available for grant assembly, budget generation, teaching, course coordination, research supply ordering, website maintenance, meeting scheduling, note-taking, outside speaker scheduling, and other administrative tasks.

***Program in Chemical Biology.*** Dr. Volkman (Director) andDr. Smith (Associate Director) recently co-founded the **Program in Chemical Biology** (PCB), partially supported by the Clinical and Translational Science Institute (CTSI), the Advancing a Healthier Wisconsin endowment, and MCW institutional funds. The PCB provides expertise and collaborative resources for fragment-based screening using NMR and other biophysical techniques, recombinant protein production, biophysical binding assays, computational modeling, and organic synthesis capabilities for chemical biology and medicinal chemistry projects. The PCB has already become a valuable scientific resource. The PCB has active collaborations with 39 MCW faculty in 6 basic science departments (Biochemistry, Bioengineering, Biophysics, Cell Biology, Microbiology, Pharmacology) and 8 clinical departments (Anesthesiology, Medicine, Obstetrics, Ophthalmology, Otolaryngology, Pathology, Pediatrics, Surgery), and 12 faculty from outside institutions. The PCB continually receives requests from faculty collaborators to engage its expertise and resources. Different focus groups within the PCB meet weekly to discuss the progress of chemical biology, medicinal chemistry, structural biology, and small-molecule screening projects.

***Mellowes Center for Genomic Sciences and Precision Medicine.***The Mellowes Center, directed by our close collaborator Dr. Raul Urrutia, uniquely combines genetic and genomic information and experimental methods to further the development of precision medicine initiatives for various diseases, especially rare genetic diseases and cancer. Mellowes Center faculty members conduct research in a broad range of areas related to this vision, including epigenetics, pharmacogenomics, metabolomics, and bioinformatics. Center research cores provide valuable tools for genome sequencing (**Equipment**) for collaborative use by its members. Within the Mellowes Center, Dr. Volkman (Director) and Dr. Smith (Associate Director) recently co-founded the **Structural Genomics Unit** (SGU), ahigh-throughput computational, biophysical, and cellular pipeline to functionally interrogate rare-disease and cancer-associated variants of epigenetic proteins.