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The Center for Eukaryotic Structural Genomics (CESG) is a specialized research center supported by the Protein Structure Initiative (PSI) of the [National Institute of General Medical Sciences \(NIGMS\)](#), one of the [National Institutes of Health \(NIH\)](#).

PSI is a federal, university, and industry effort aimed at dramatically reducing the costs and lessening the time it takes to determine a three-dimensional protein structure. The long-range goal of PSI is to solve 10,000 protein structures in 10 years and to make the three-dimensional atomic-level structures of most proteins easily obtainable from knowledge of their corresponding DNA sequences.

- [Protein Structure Initiative Mission Statement](#)
- [Protein Structure Initiative Pilot Phase and Centers](#)
- [Protein Structure Initiative Phase 2 and Centers](#)
- [Protein Structure Initiative Production Phase Fact Sheet](#)

CESG is located within the [Department of Biochemistry](#) at the [University of Wisconsin-Madison \(Madison, WI\)](#) and the [Department of Biochemistry](#) at the [Medical College of Wisconsin \(Milwaukee, WI\)](#).

In addition to solving over 110 eukaryotic protein structures, CESG develops new methods and technologies to address unique eukaryotic bottlenecks and disseminates its methodologies and experimental results to the scientific community worldwide. We also welcome requests by researchers to solve eukaryotic protein structures, particularly medically relevant proteins, through our online request system (link below):

- [Cell-Free Protein Production Workshops](#)
- [Online Structure Request System for Researchers](#)
- [Plasmids Available through PSI-Materials Repository](#)
- [Posters Presented at Scientific Meetings](#)
- [Publications in PubMed / PubMed Central](#)
- [Sesame \(LIMS\) Available for Researchers](#)
- [Solved Structures in the Protein Data Bank \(PDB\)](#)
- [Technology Dissemination Reports](#)

All of CESG's experimental results, and corresponding protocols, are deposited into these online databases:

- [BioMagResBank \(BMRB\)](#)
- [PepcDB](#)
- [Protein Data Bank \(PDB\)](#)
- [Sesame \(LIMS\)](#)
- [TargetDB](#)
- [Target List XML File](#)

Our central office is in Madison, WI, where over 50 CESG employees and students work, with around 10 employees / students at MCW in Milwaukee, WI. The two facilities provide a rich selection of local [collaborators](#), facilities, and resources. UW-Madison hosts numerous [Research Centers](#), the [Nuclear Magnetic Facility at Madison \(NMRFAM\)](#), the [BioMagResbank \(BMRB\)](#), the [Biotechnology Center \(BTC\)](#), [School of Medicine](#), and there over 900 employees in the [UW-Madison Biochemistry](#)



RECENT CESG CITATIONS

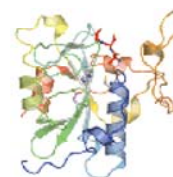
A graphical approach to tracking and reporting target status in structural genomics. *JSFG* 8(4):209-16.

Structure of aspartoacylase, the brain enzyme impaired in Canavan disease. *PNAS* 104(2):456-61.

Structural genomics: from genes to structures with valuable materials and many questions in between. *Nature Methods* 5(2):129-32.

Structures of proteins of biomedical interest from the Center for Eukaryotic Structural Genomics. *JSFG* 8(2-3):73-84.

RECENT CESG STRUCTURE



PDB ID: 3C9Q

human protein C8orf32

Department alone. At MCW, resources comprise numerous [Research Centers](#), including a [NMR Facility](#), all within the [Medical School](#).



CESG is supported by NIH / NIGMS Protein Structure Initiative grant numbers 1 U54 GM074901 (JLM; 07/01/05 - 06/30/10) and P50 GM064598 (JLM; 01/01/02 - 08/31/05).

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