Viral Vector Core

Location: BloodCenter of Wisconsin Blood Research Institute, east wing, room 2025

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Learn more about the BloodCenter of Wisconsin's Viral Vector Core

Overview

The Viral Vector Core is shared between the Blood Research Institute and the Medical College of Wisconsin. Vector systems used by the core include those based on lentivirus, retrovirus, adenovirus, and adeno-associated virus. This core provides services in the areas of vector design and construction to enable gene silencing and/or protein expression. Additional services include virus amplification, purification, and titration, cloning, mutagenesis, and plasmid DNA preparation.

- Lentiviral/Retroviral Vector Production: Small-scale (plates) and large-scale (roller bottles)
- Lentiviral/Retroviral Vector Titration: Flow cytometry assay, integration qPCR, replication competence testing
- Adenoviral Vector Production: Recombination and transfection, small and large-scale amplification, purification
- Adenoviral Vector Titration: Flow cytometry based antibody assay
- Adeno-associated Viral Vector Production: Small and large-scale production and purification
- Other: Vector construction, site-directed mutagenesis, plasmid preparation

Various viral vectors expressing specific reporter genes such as GFP, YFP, mCherry, and Cerulean can be purchased for testing and generation of preliminary data

Equipment/Software	Accessibility
Bellco large capacity, roller bottle incubator	Facility technicians use on behalf of investigators

Hours: Monday - Friday 9:00 am-5:00 pm

Common users of the facility: Andreas Beyer and Konduri labs at MCW; Silverstein and Newman labs at BRI

Rate: dependent on services - please contact us.