BIEN 685. GENE AND CELL THERAPY VIRAL VECTORS BIOMANUFACTURING.

Credits: 3

Offered by: Bioengineering (Graduate Studies)

This course is not offered this catalogue year.

Description

Basic knowledge in the design and biomanufacturing of viral vectors for gene and cell therapy interventions. Practical examples and case studies highlighting challenges and solutions associated with use of viral vectors such as Adeno-Associated Vectors (AAV), lentivirus vectors and Adenovirus vectors for gene delivery. Fundamental principles of gene and cell therapies through in-vivo and ex-vivo interventions. Design of AAV, Lentivirus and Adenovirus vectors: example of targeted diseases, including CAR-T cell therapy. Technologies and modes of vector manufacturing for clinical use.

- Prerequisites: BIEN 590 or permission of the instructor
- Restrictions: Not open to students who have taken or are taking BIEN 680