

Viral Gene Transfer – Methods, Advances and Biosafety

7.2.2012

Biomedicum Helsinki, Lecture hall 3



FuGU

BIOMEDICUM
FUNCTIONAL
GENOMICS
UNIT

9.00 Opening words

Juha Klefström

9.05 Basics of viral gene transfer

Elias Haapakorva, Biomedicum Functional Genomics Unit

- Introduction to viral gene transfer methods
- Properties and analysis of recombinant lentiviruses
 - pseudotyping, transduction and titers
- Expression and knockdown applications in vitro and in vivo

10.00 Viral products and services available from Meilahti campus

Minna Vittaniemi, Biomedicum Functional Genomics Unit

- RNAi vectors and libraries
- Recombinant virus production
 - Standard, concentrated and sucrose purified viral particles
- Virus titering services
- Managed BSL2 facilities and services in Biomedicum
- Knockdown validation services

10.30 Coffee in the lobby

10.45 ORF/cDNA sets and cloning services available from Viikki campus

Tea Vallenius, Genome Biology Unit

- ORF and cDNA vectors
- Basics of gateway cloning
- ORF cloning and other Genome Biology Unit's services
- Case study examples

11.15 Biosafety regulations for use of recombinant viruses

Maini Kukkonen, VALVIRA

- Present rules and regulations governing recombinant viruses
- Introduction to new regulatory changes and guidelines regarding viral biosafety

12.45 Lunch

13.30 Induction and reduction of anxiety by lentiviruses in mice

Iiris Hovatta, PhD, Academy research fellow

14.00 Targeting the endothelial angiotensin-II signaling pathway in cancer

Pipsa Saharinen, PhD, adjunct professor, Academy research fellow

