Glucose uptake in vitro

CIM workshop 2008

Glucose uptake in vitro

Insulin, IL-6

Differentiated myotubes

Glucose uptake?

- Serum starve cells ~2-3h
- Incubate with insulin/IL-6
- Change to glucose –free media
- Add radioactive glucose [H³]
- Lyse the cells
- Transfer lysates to scintillation tubes with scintillation fluid
- Count in a scintillation counter

Practical work in the cell lab

- Working sterile
 - EtOH, gloves, short sleeves
 - Closed room (not today)

- Working with ³H
 - Skin will protect from radiation (β-radiation)
 - Not good if gets inside the body
 - Gloves, isolated workspace, special waste