

CYTOMÉTRIE EN FLUX ET MICROSCOPIE CONFOCALE:

2 TECHNIQUES COMPLÉMENTAIRES
POUR L'EXPLORATION DU FONCTIONNEMENT
CELLULAIRE

FORMATION pour le LBFA

3 sessions :

I - Pré requis communs aux 2 techniques

- La fluorescence
- Les sources lumineuses
 - Filtres et PMT
 - Fluorochromes

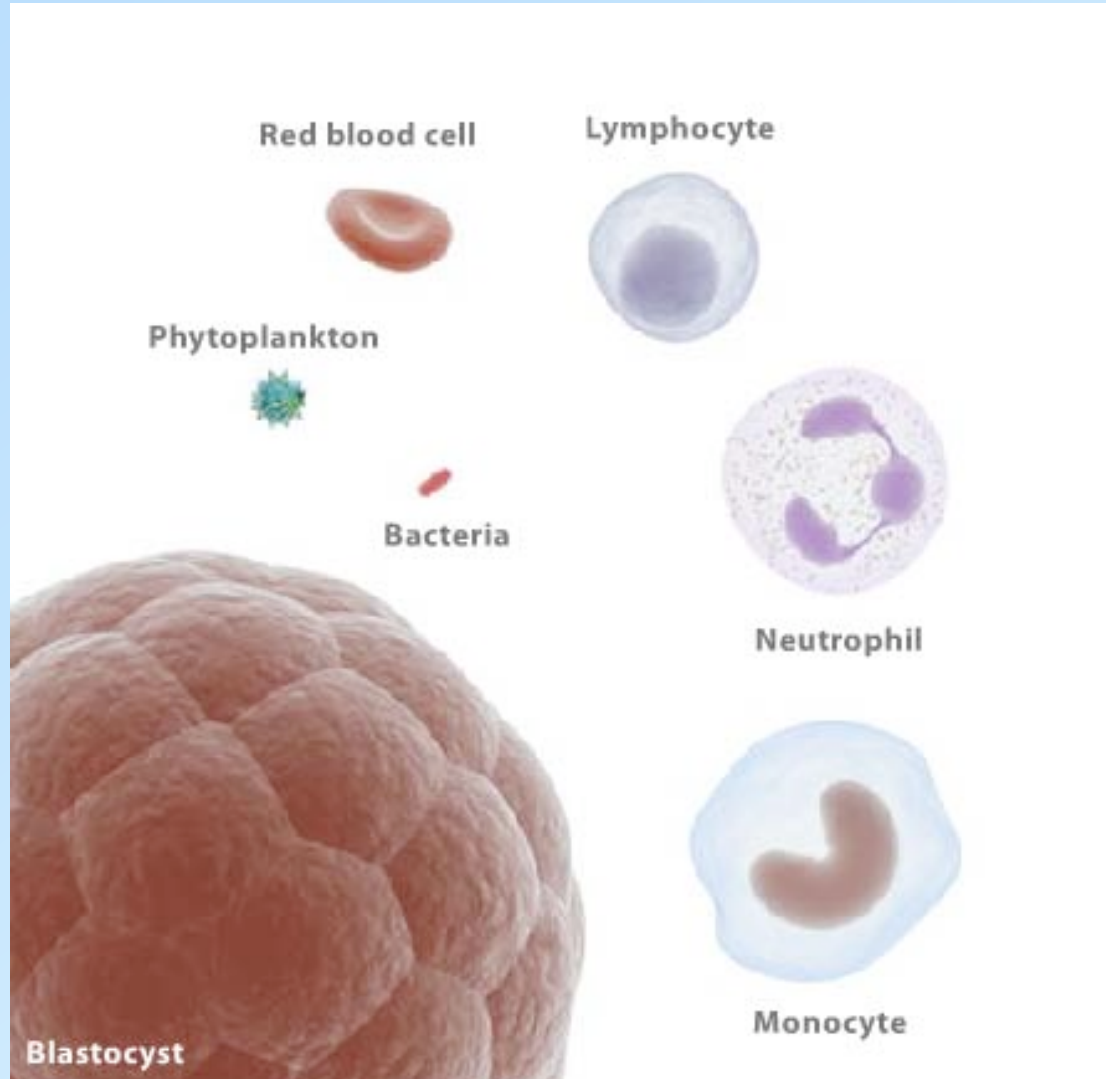
II - Cytométrie en flux

- Principe & Applications

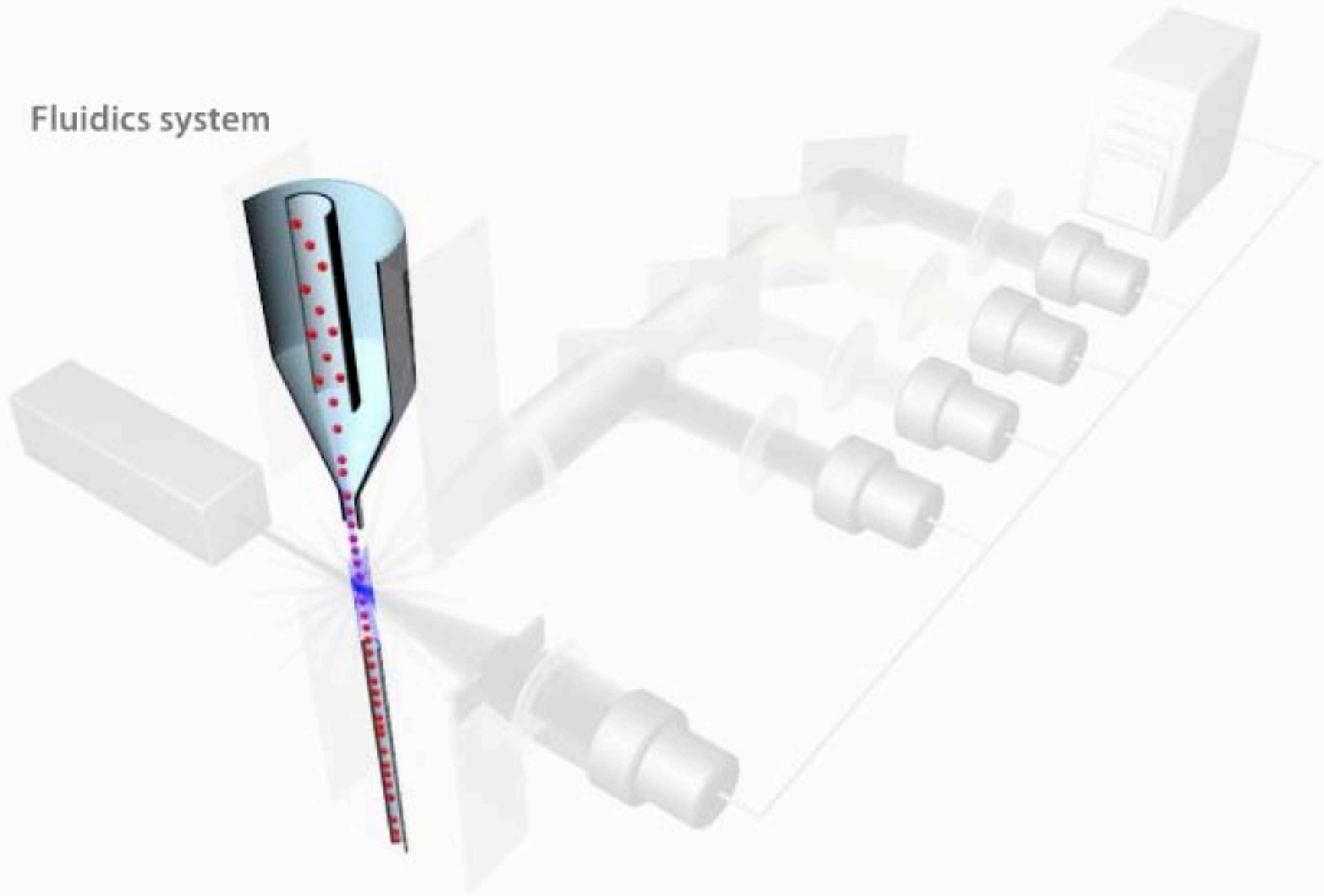
III - Microscopie confocale

- Principe & applications

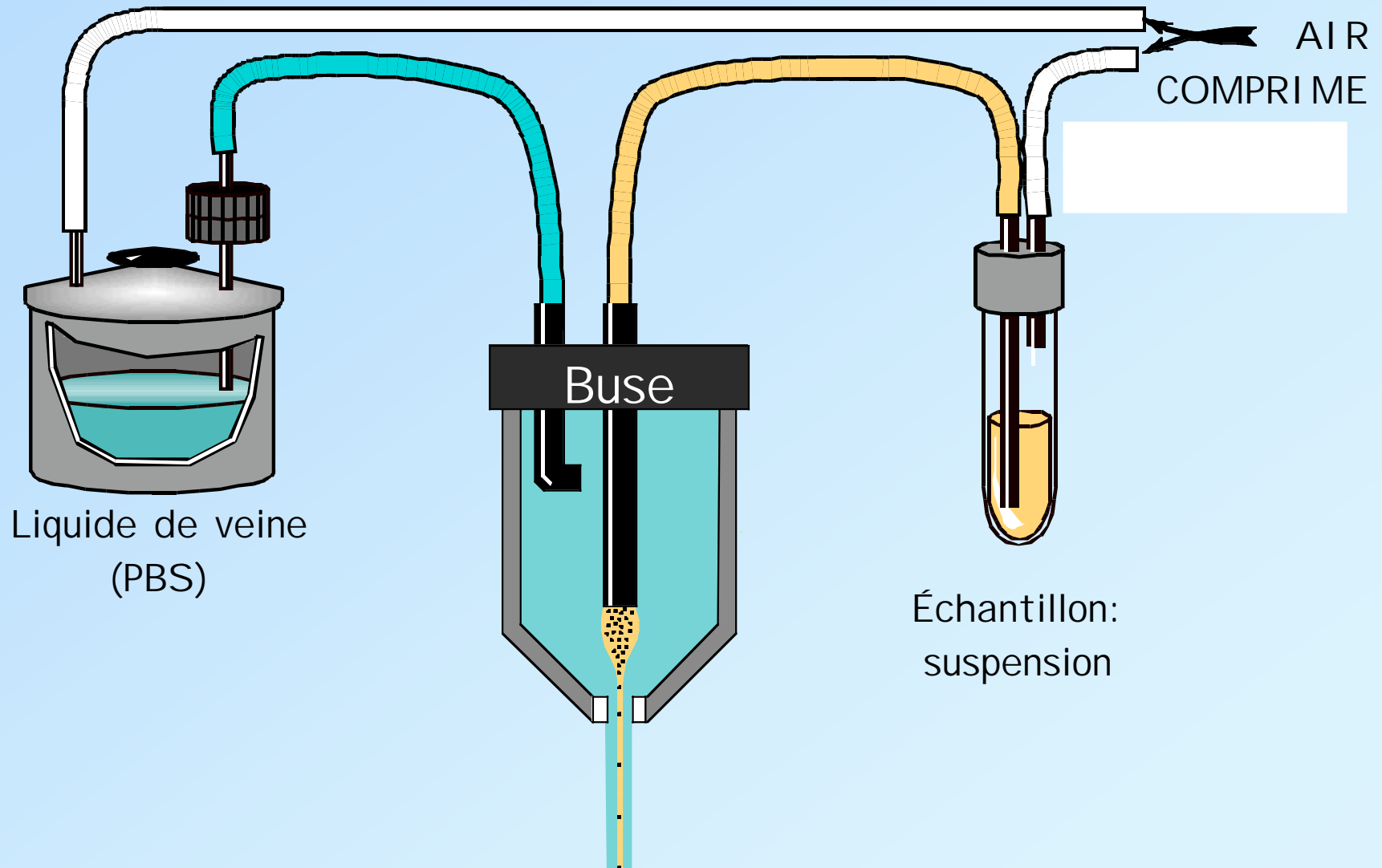
Intro



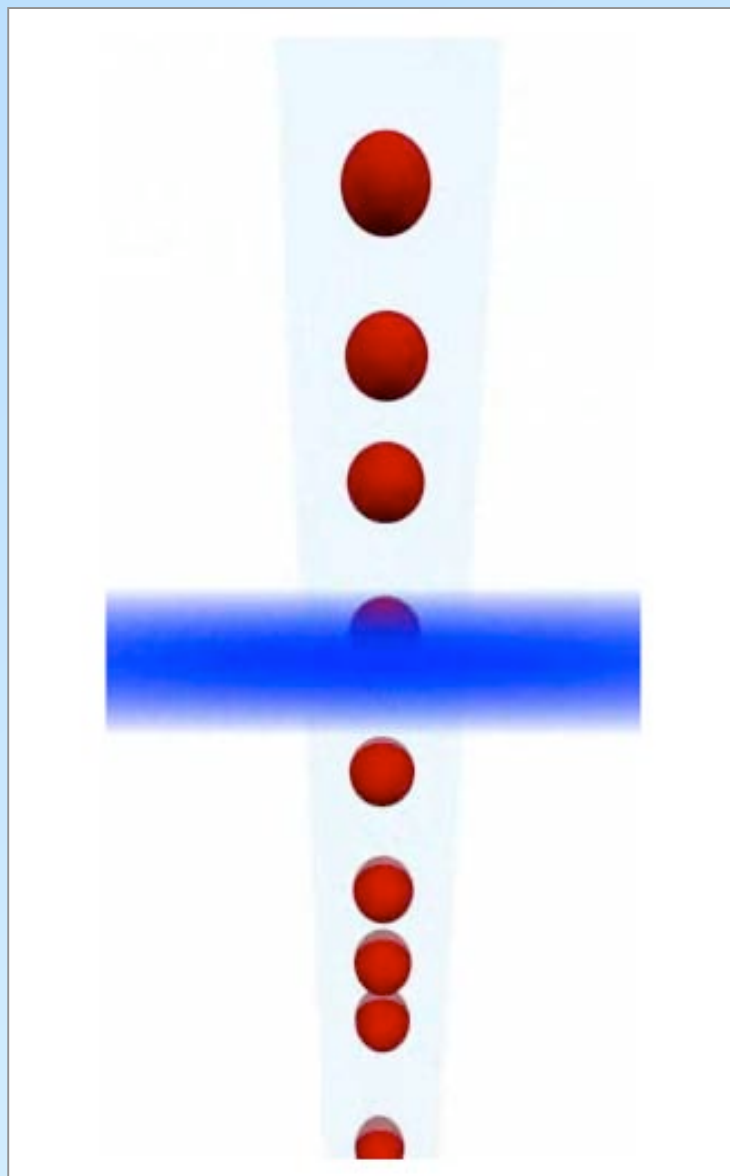
Fluidics system

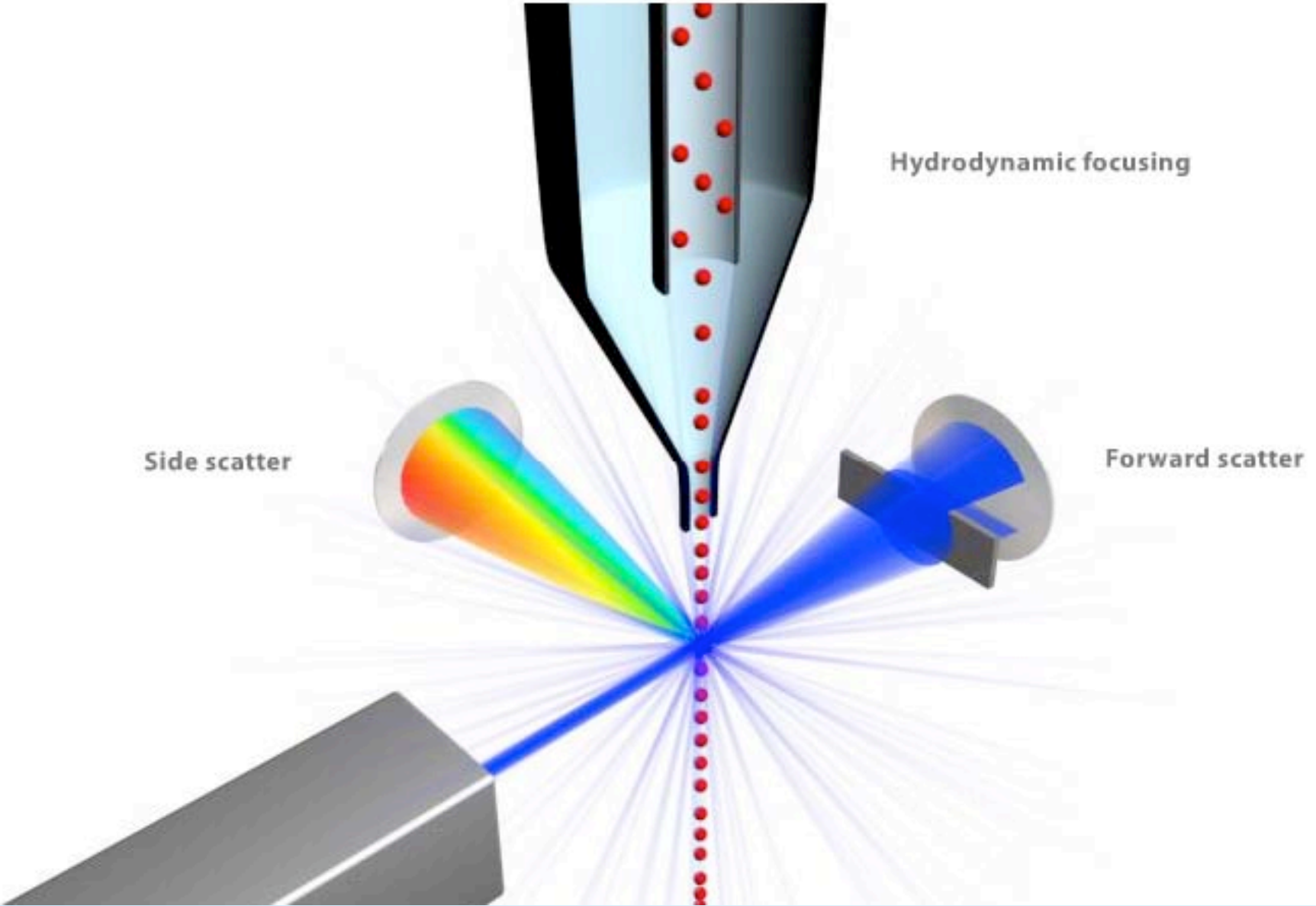


Focalisation hydrodynamique

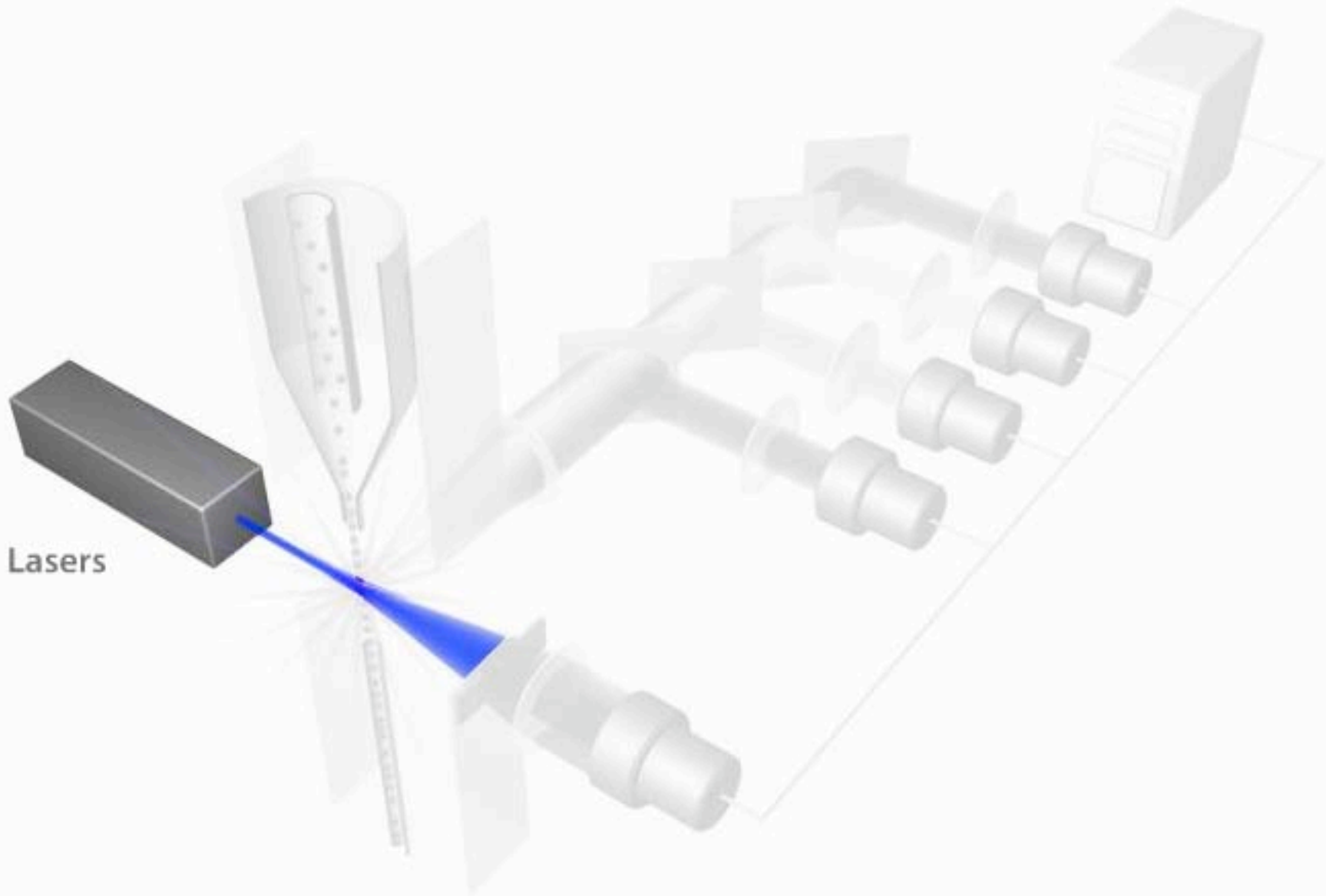


Focalisation hydrodynamique

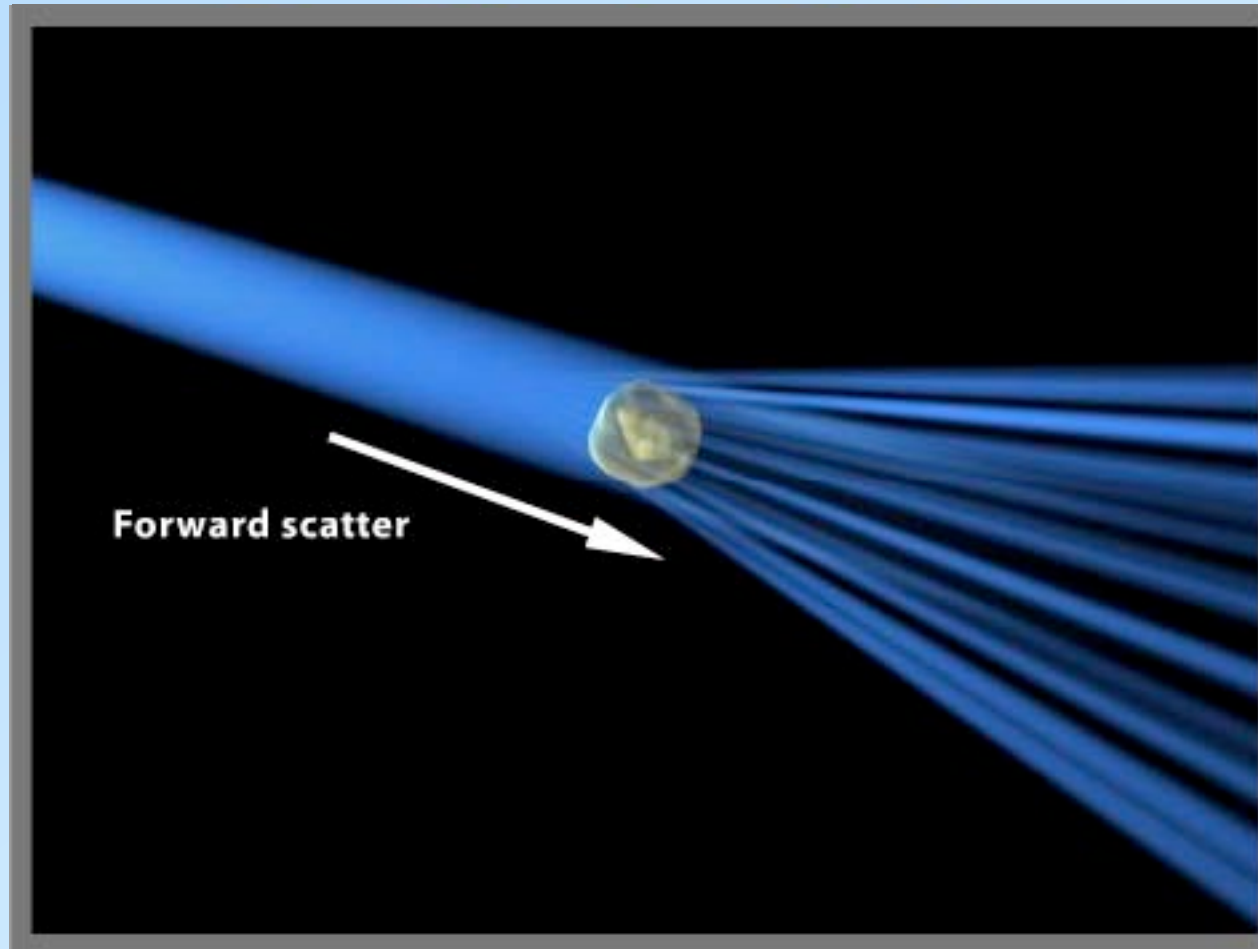


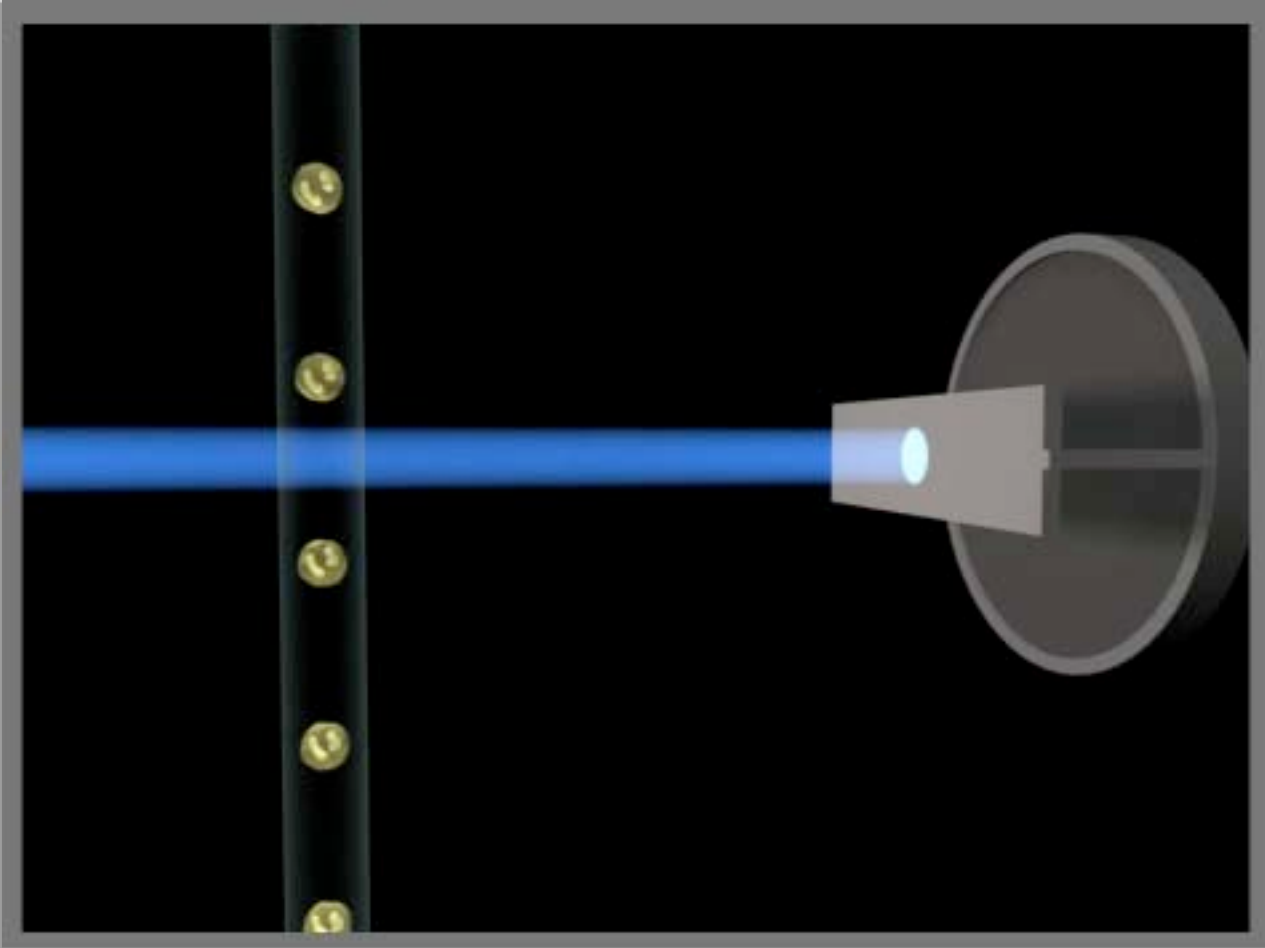


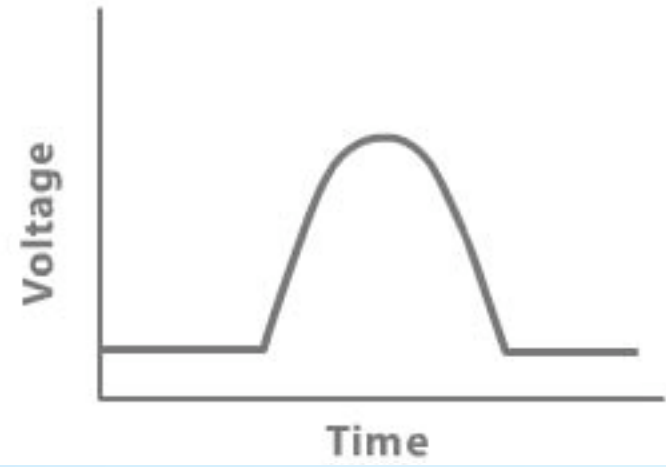
Lasers



Forward Scatter



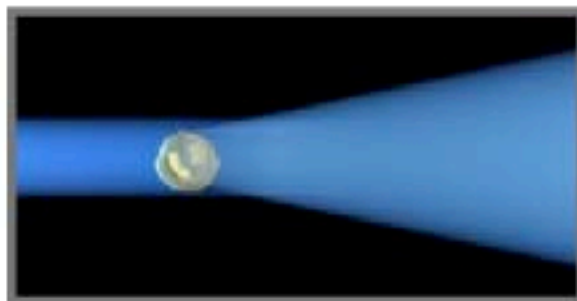




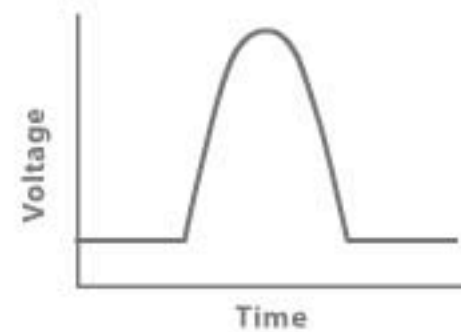
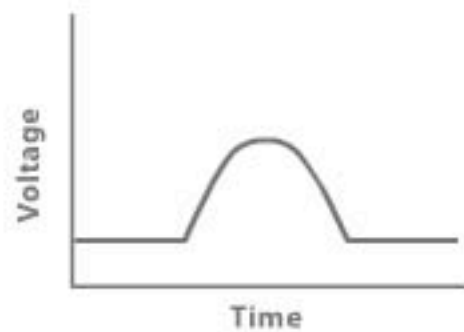
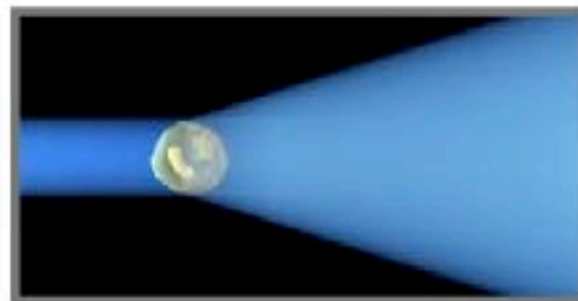
Small

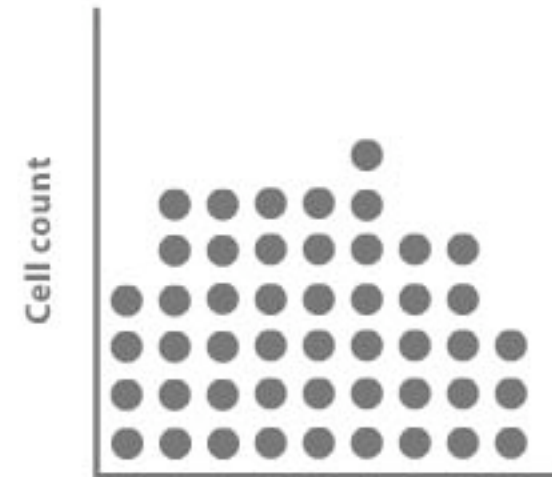
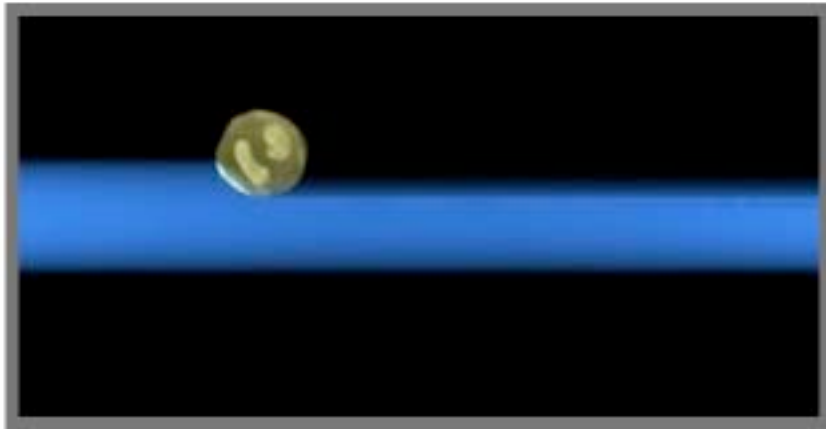


Medium

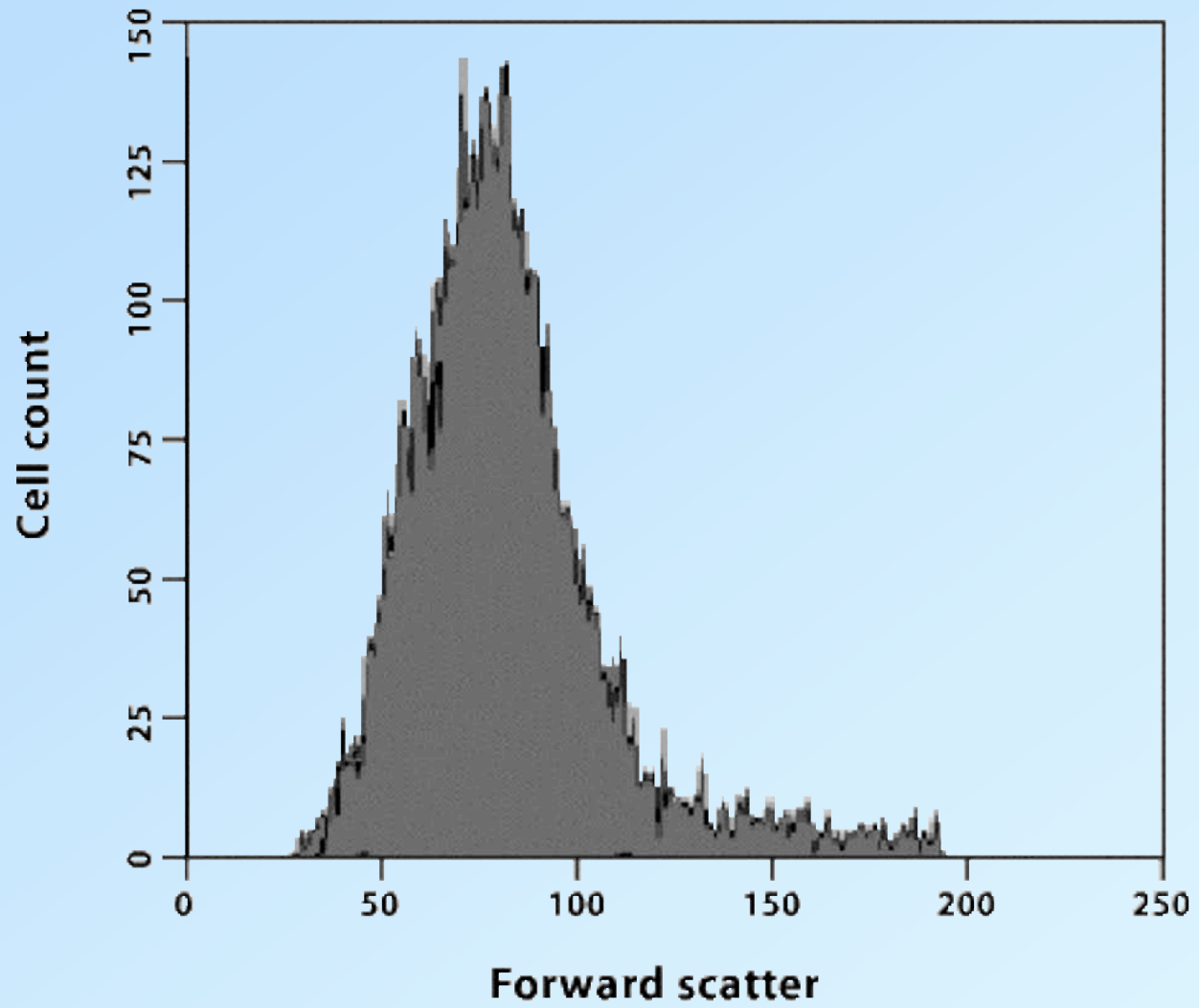


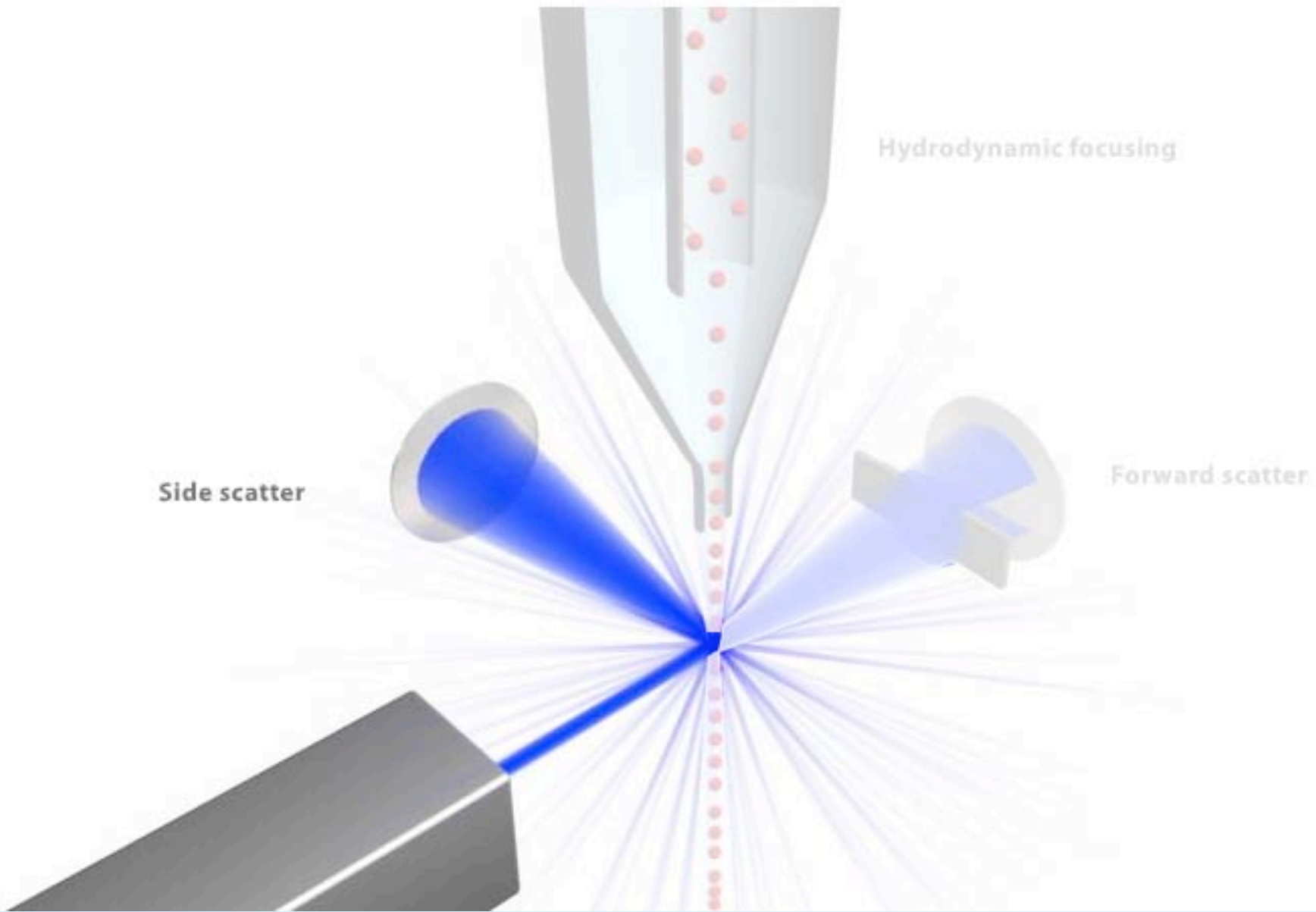
Large

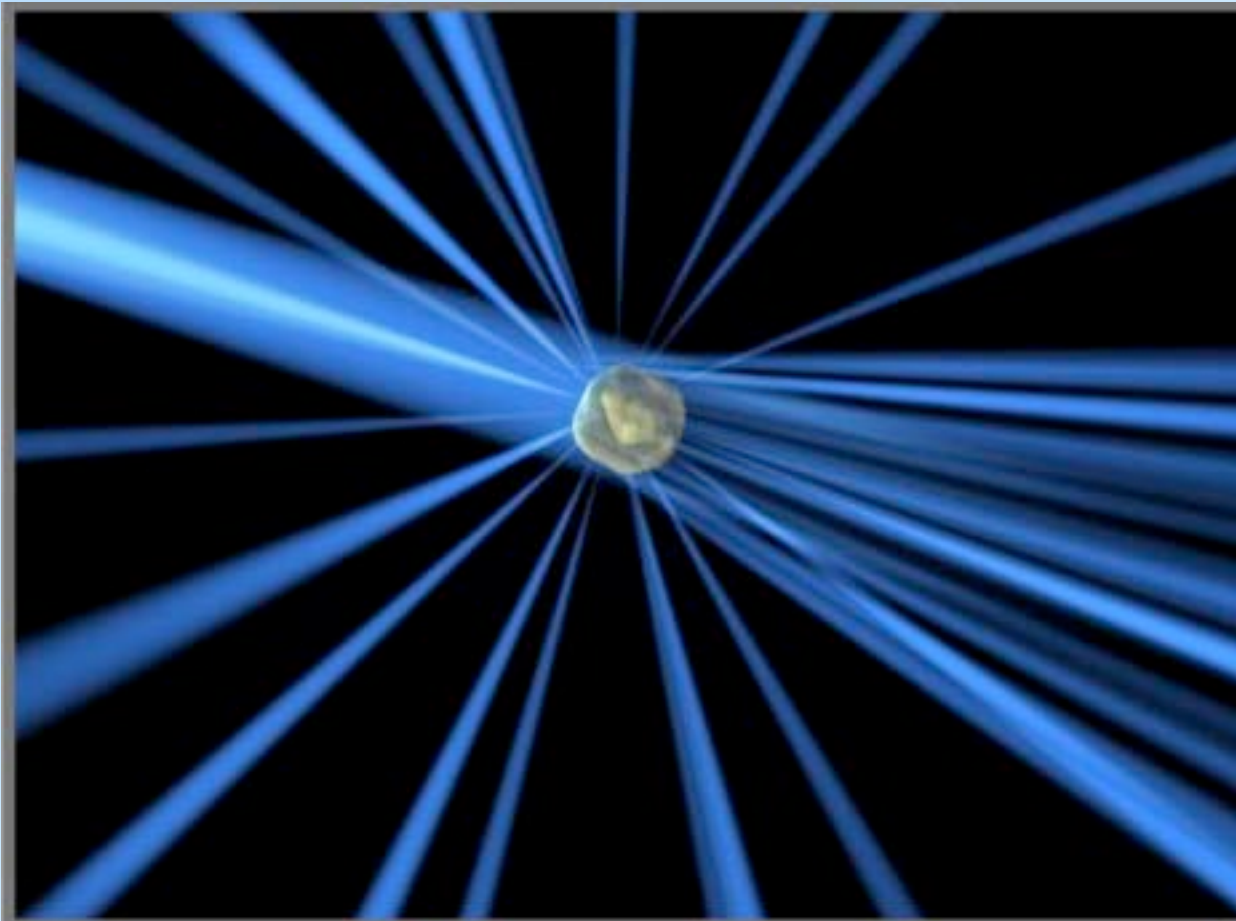


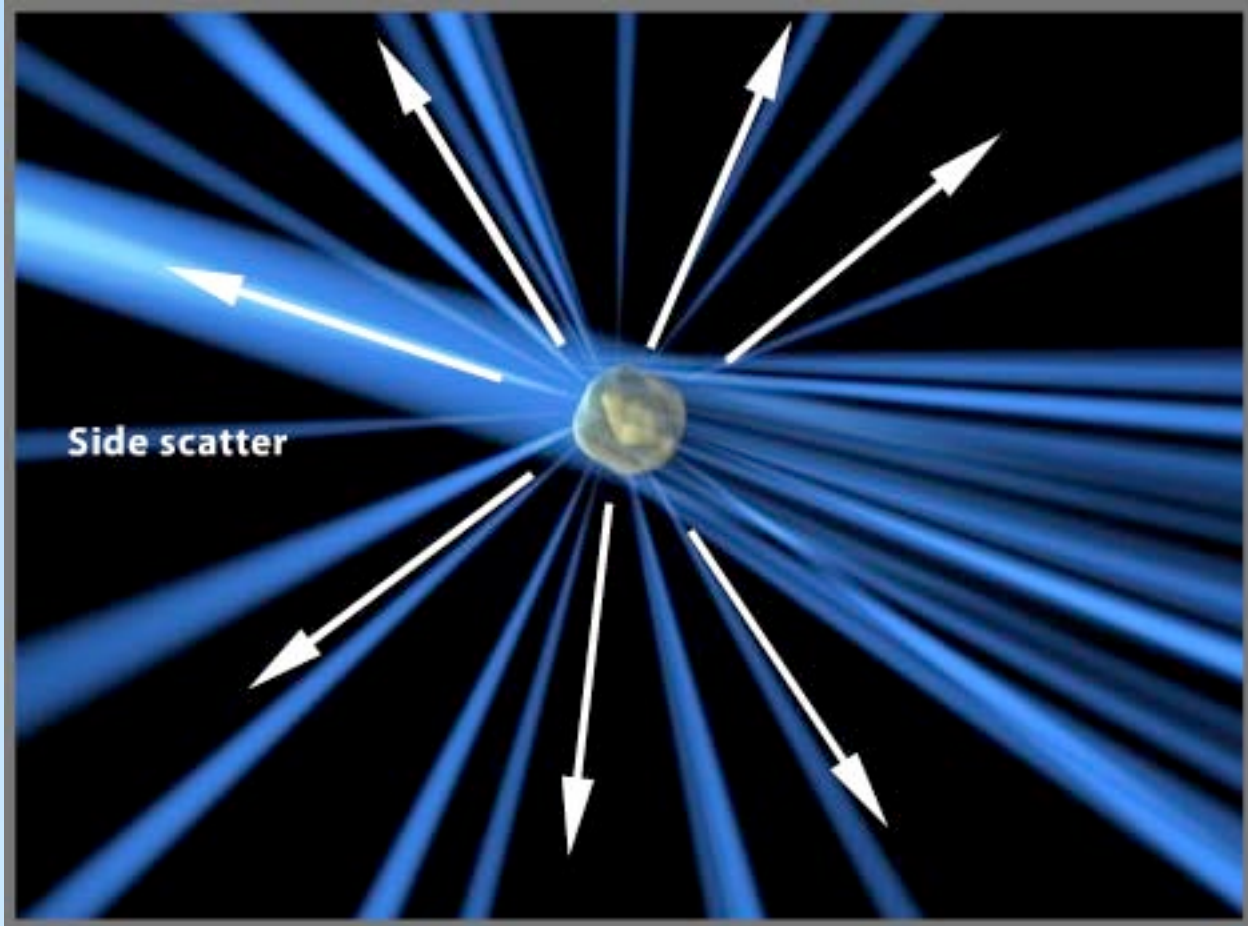


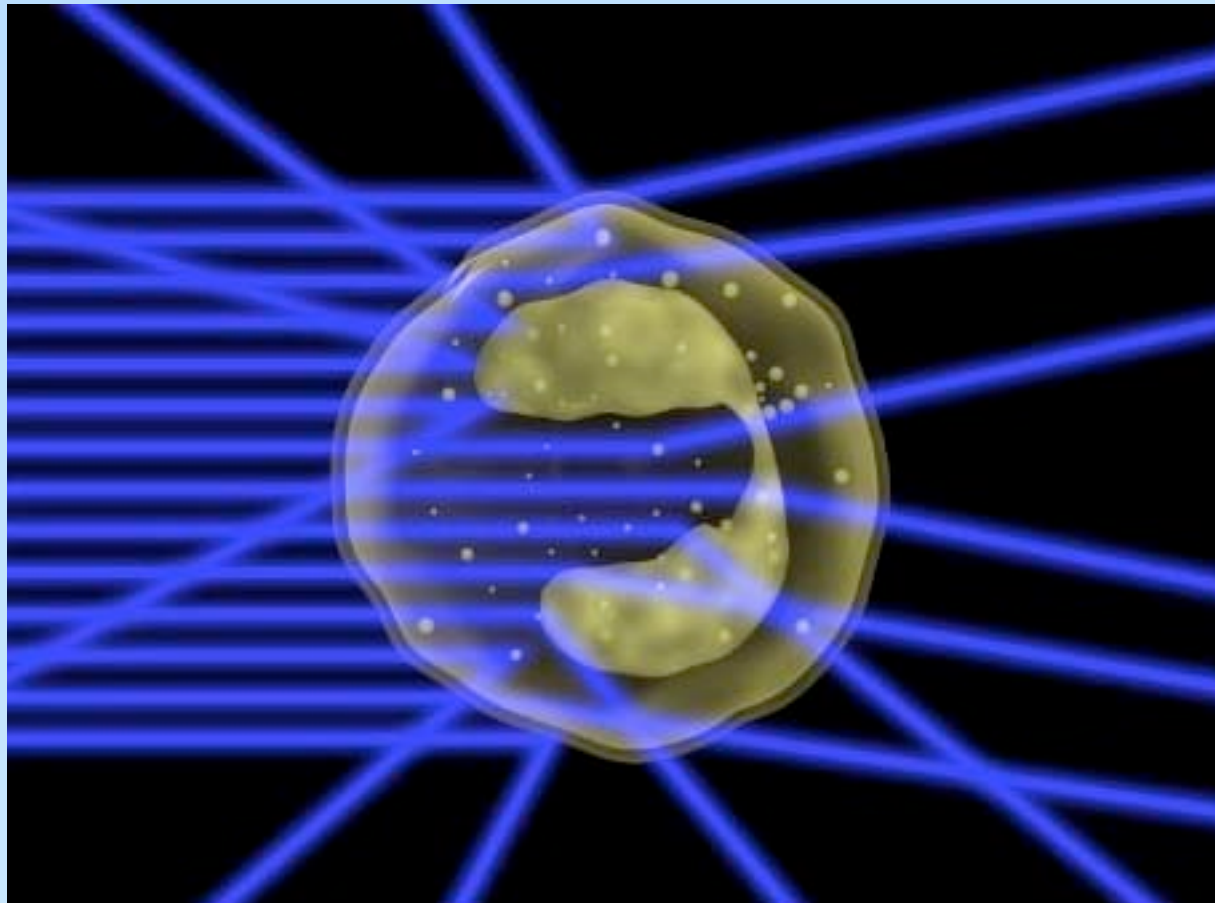
Forward scatter
(proportional to cell size)



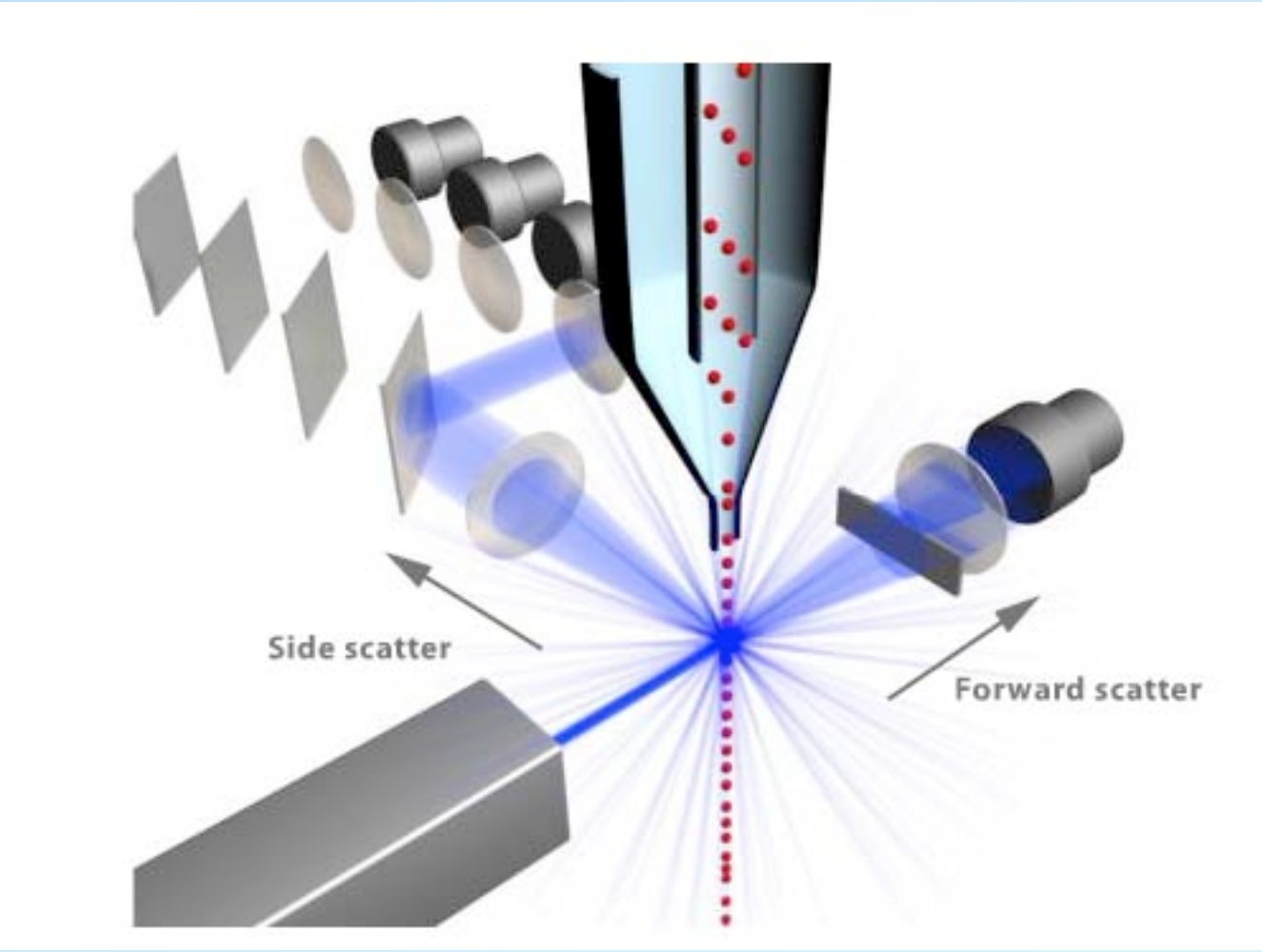




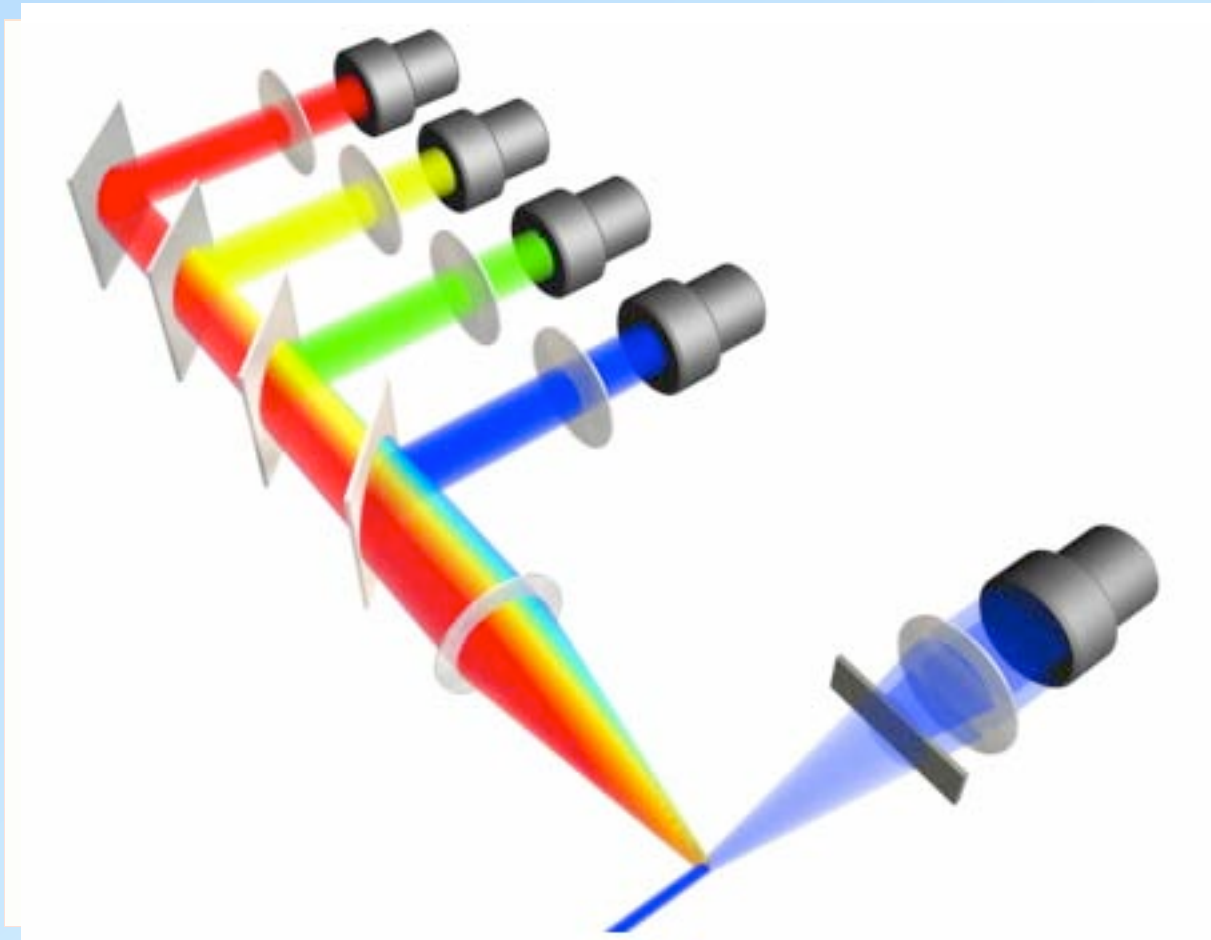




Side scatter is caused by
granularity and structural
complexity inside the cell.



Fluo detection



Computer system

