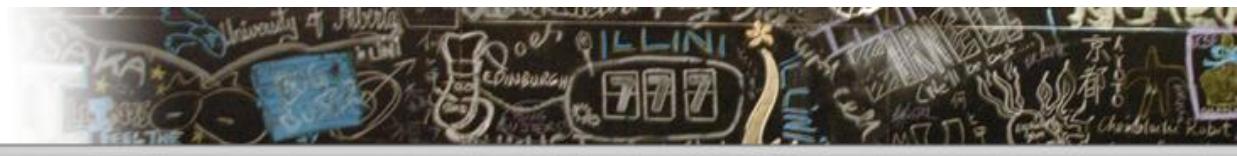
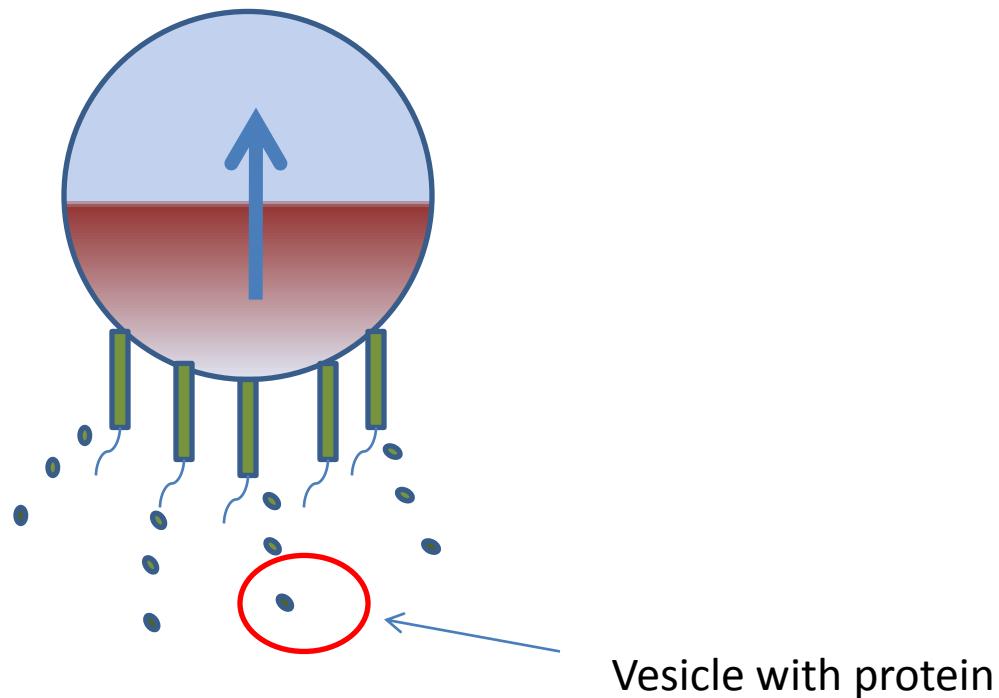


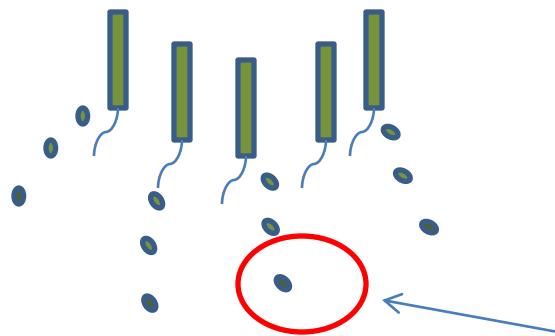
Meeting - 9th July 2009



Where we left off last week..



This week.. I



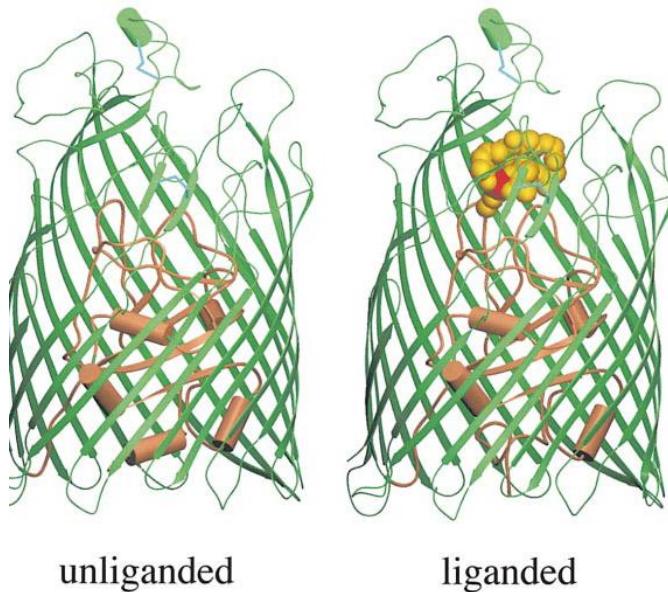
Vesicle with protein
ClyA toxic
ClyA mut
Novel Protein

Novel Proteins for carrier..Shortlist

Gene	Localisation	Uniprot	Size(aa)	Protein Description		
fepA	OM	P05825	746	Signal	TonB	TM
fhuA	OM	P06971	747			
fiu	OM	P75780	760			
lamB	OM	P02943	446			
cirA	OM	P17315	663			
fecA	OM	P13036	774			
osmE	OM	P0ADB1	112			
prc	PP	P23865	682			
degP	PP	POCOV0	474			
surA	PP	POABZ6	428			
tolB	PP	P0A855	430			
ybgF	PP	P45955	263			
ybiS	PP	P0AAX8	306			
yddB	PP	P31827	790			
ydgH	PP	P76177	314			

2 good candidates

FhuA



FhuA

Ferrichrome Fe-Ligand
Chimeric with LacZ via phage ?
747 aminoacids
Found in OM

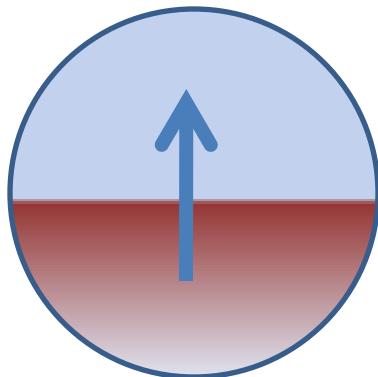
Fiu

Similar properties as FhuA

Newman et al.(1999), Differential fiu-lacZ fusion regulation linked to E.coli, Molecular Microbiology 33,18-32

Locher et al.(1998), Transmembrane signalling across the Ligand-Gated FhuA Receptor: Crystal structures of Free and Ferrichrome-Bound States reveal allosteric changes. Cell 95,771-778

The twist..

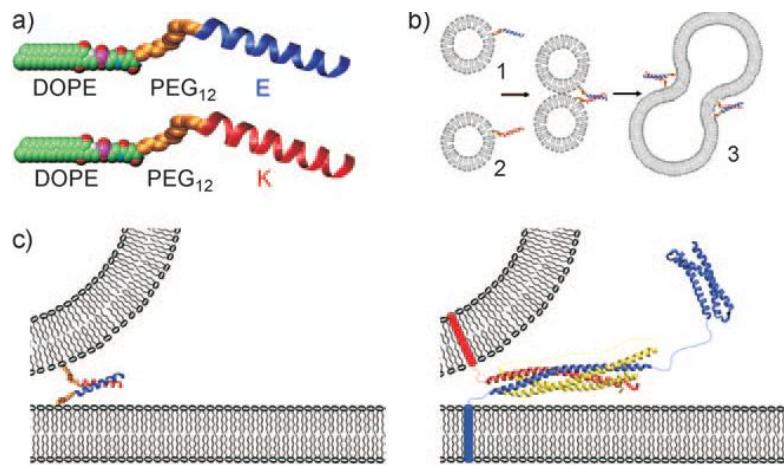


We can make the beads here
With the help of Paul Bartlett
(nanocolloids)
Jaanus Reaction

Willing to help and will cost “nothing”

Will we implement the beads back into
Project?

A chat with Dek



SNARE mediated fusion

Coiled-coil interaction of Vesicles

A reduced SNARE model for membrane fusion DOI:10.1002/anie.200804493

Applications...Pick one !

- Directed Drug Delivery System
- Printing onto surfaces
- Cell-Cell communication and event of memory.