Satyajit 'Jitu' Mayor, May 2007

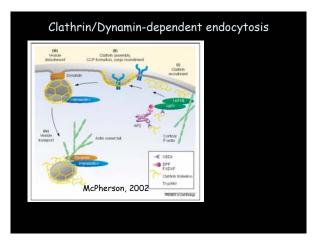
iBio Seminars Part II: Looking for functional rafts in cell membranes

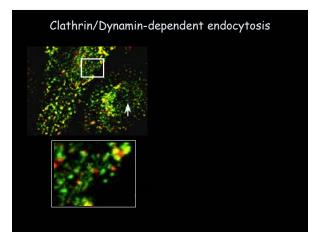
Satyajit Mayor National Centre for Biological Sciences (NCBS), Bangalore, India

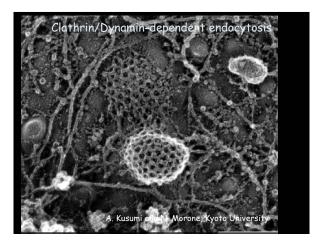
in collaboration with

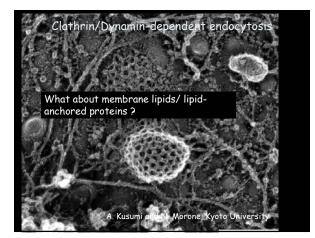
Madan Rao Raman Research Institute (RRI) , Bangalore

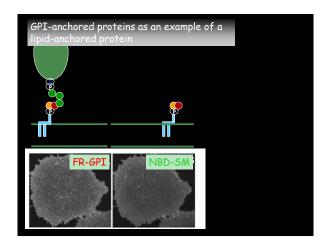
Macbs

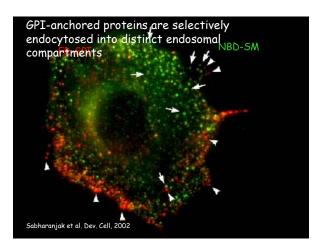


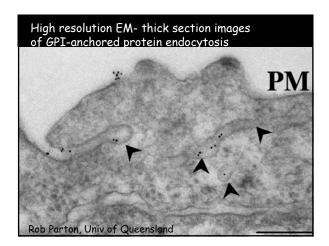


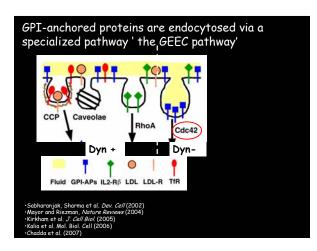


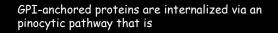












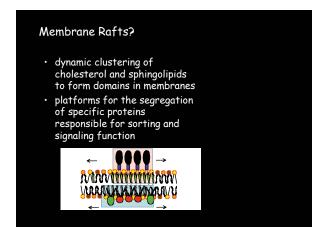
 Constitutive ·Lipid-selective •Lipid-dependent •Cdc42-regulated

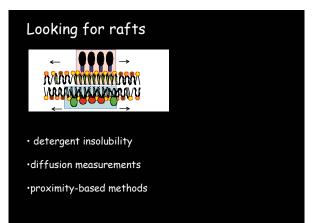
·Actin-dependent

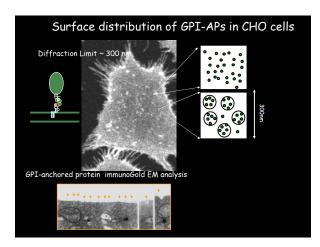


Does not utilize •Dynamin •Clathrin/ Caveolin

- •Arf6
- •RhoA
- •Rac1





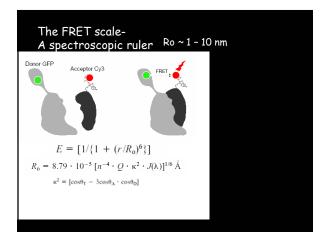


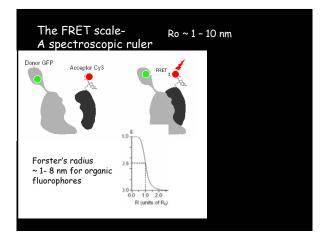
Proximity-based methods to examine segregation of GPI-anchored proteins

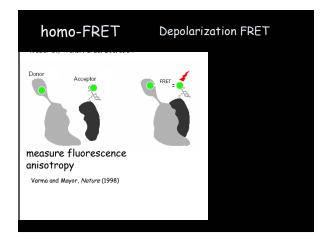
EM analysis (Mayor et al, *Science,* 1994; Prior et al, *JCB* 2003; Madore et al , *EMBO J* 2002)

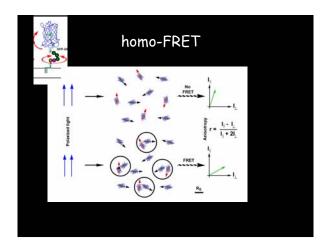
Chemical crosslinking *in situ* ~ microdomains: (Friedrichson and Kurzchalia, *Nature* 1998; Paladino et al, *JCB*, 2004)

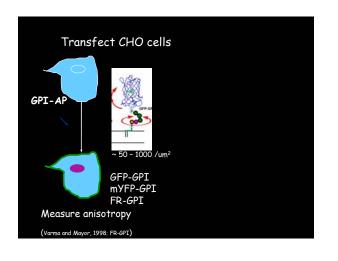
Forster's Resonance Energy Transfer (FRET) (Varma and Mayor, *Nature* 1998; Kenworthy et al., *JCB*, 1998; Sharma et al, *Cell*, 2004)

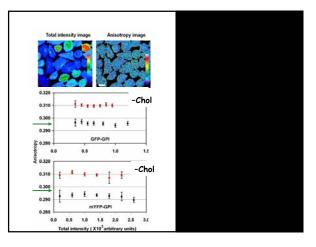


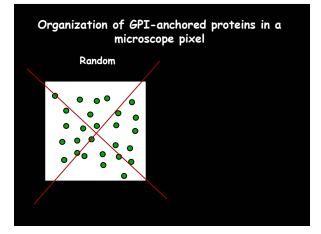


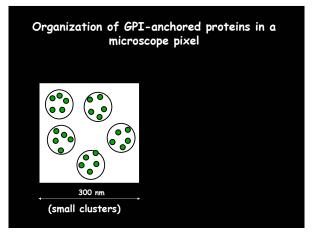


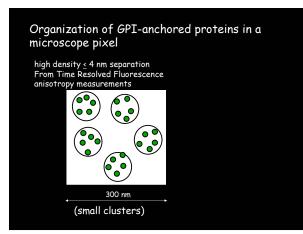


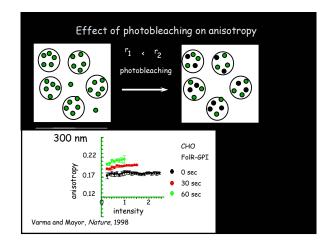


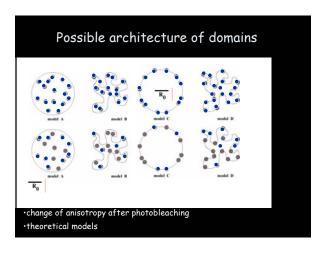


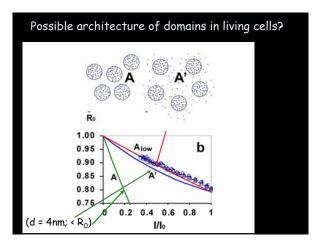


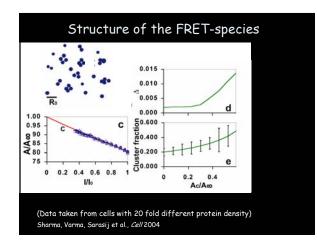


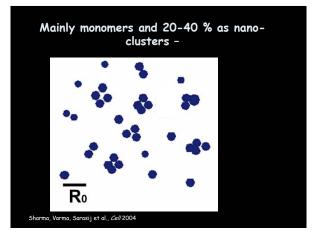


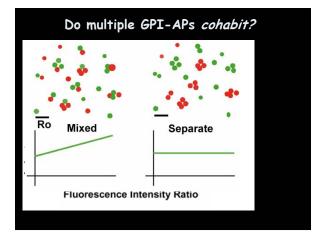


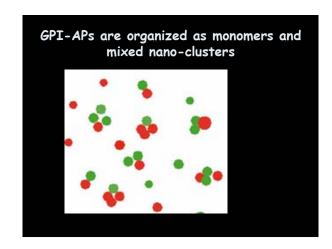


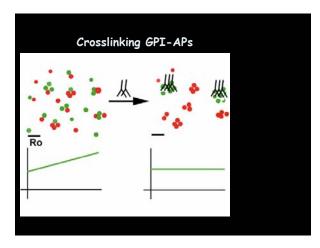


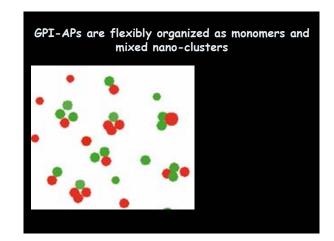


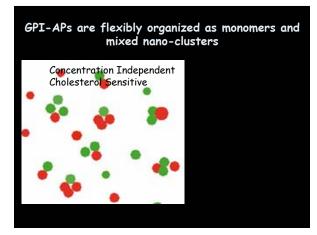


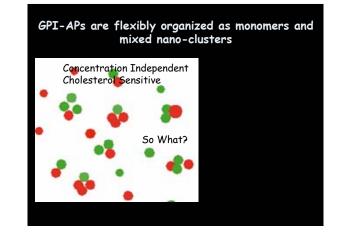


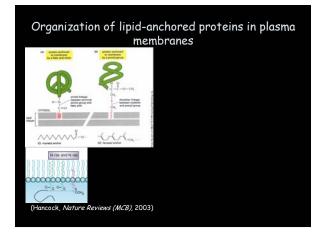


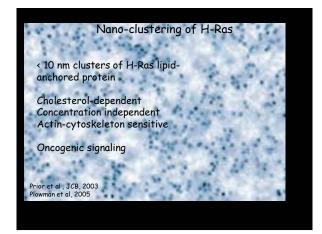


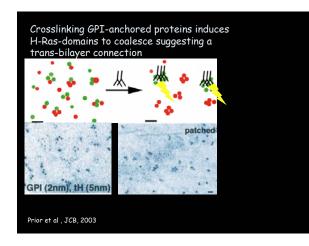


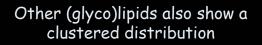












Ganglosides GM1 and GM3 exhibit a similar nano-clustered distribution

sensitive to cholesterol depletion cold temperatures concentration independent

- Fujita, et al. MBC (2007)

