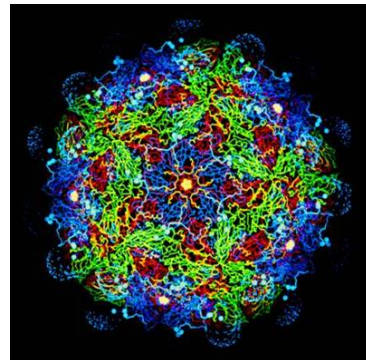
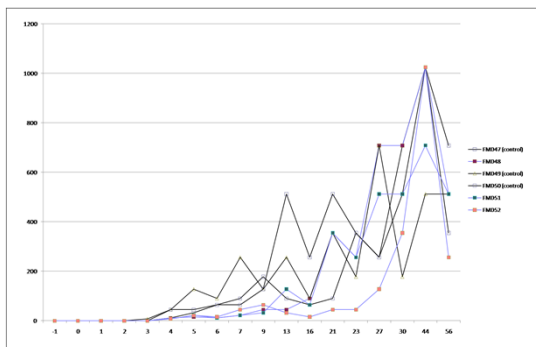


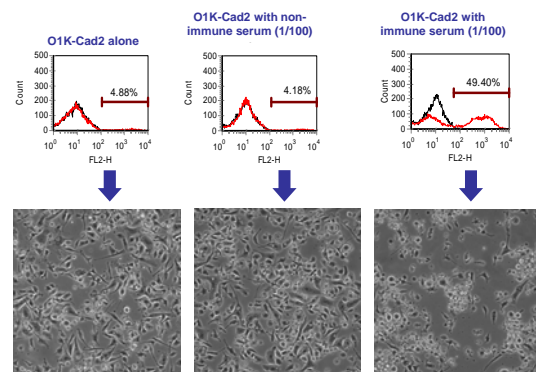
**FMDV capsid: T independent and T dependent epitopes**



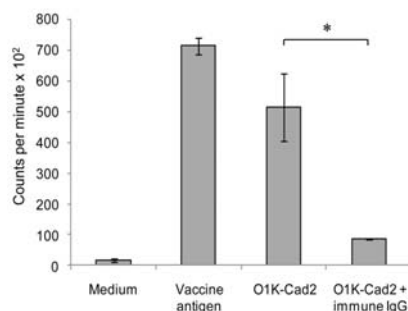
**Depletion of CD4<sup>+</sup> T cells during FMDV vaccination**



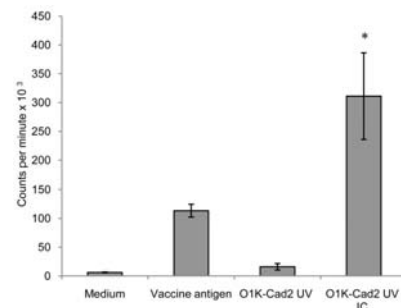
**Antibody from immune cattle can form complexes with FMDV which allow the virus to enter, replicate in, and kill moDC**



**FMDV immune complexes significantly reduce T cell proliferative responses**



**Using IC to target inactivated FMDV to moDC results in significantly increased T cell stimulation**



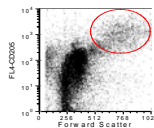
“New tools and challenges for progressive control”

Open Session of the EuFMD Research Group, Vienna (Austria) 29 September - 1 October 2010

## Antigen targeting



### Infection of DCs with recombinant viruses *in-vitro* (20 hours incubation)

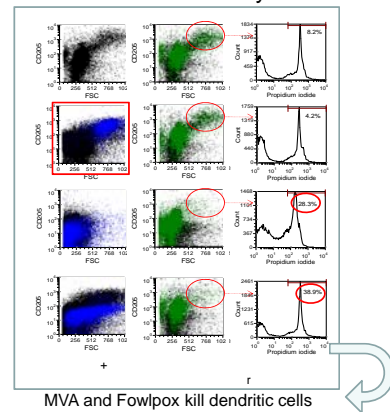


Vector efficiency at delivering antigen to DCs *in vitro*?

Recombinant virus	% GFP <sup>+</sup> cells	Mean fluorescence (GFP)
No Virus	0.01	109
Adenovirus	37.52	570
MVA	31.60	172
Fowlpox	25.51	257

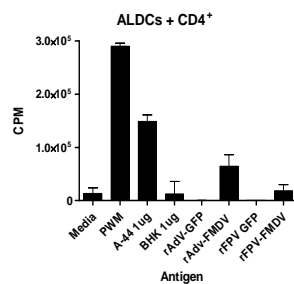
huAdV5 delivers antigen to more cells  
Adenovirus-infected cells express antigen more efficiently

### Viability of dendritic cells infected by recombinant viruses

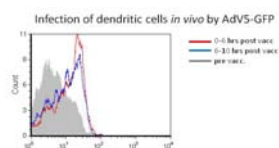


MVA and Fowlpox kill dendritic cells

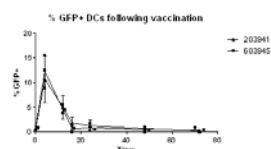
### T cell proliferation



# AdV5-GFP + Adjuvant – subcutaneously



% of DCs GFP+ post inoculation



Nick Juleff  
Bartek Bankowski  
Debi Gibson  
Julian Seago  
Lucy Robinson  
Kerry McLaughlin  
Liz Reid  
Miriam Windsor  
Terry Jackson  
Paul Monaghan  
Pippa Hawes  
Ryan Waters  
Mark Woolhouse  
Ivan Morrison  
Adrian Hill  
Sarah Gilbert  
Andy Pollard  
Dave Stuart  
Liz Fry  
Claudine Porta

