Infection challenge platform

Infection and IBD models

A) Infection models
   Yersinia enterocolitica
   Staphylococcus aureus
   Candida albicans

B) IBD models
   DSS
   Adoptive Transfer of T cell in RAG mice
   Peritoneal model

C) Cell migration models
   Air pouch model

Aim of our studies are
(i) to elucidate the role of bacterial virulence factors to overcome immune defense and the role of cells as wells as genes involved in immune defense (1,2,3)
(ii) Role of the microbiotica or commensal bacteria to modulate course of infection or their impact in inflammatory bowel disease (4,5,6)
(iii) Models can be used to test therapeutic approaches to prevent infection or chronic inflammation (7,8) e.g. novel antibiotics
(iv) In vivo models are available for migration studies (9, 10)

Publications
5. Frick et al. 2009 J Immunol
7. Pramanik et al 2008 IJMM
8. Kretzschmer et al 2010 Cell Host Microbe
9. Lauber et al. 2004 Cell
10. Kretzschmer et al 2010 Cell Host Microbe

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