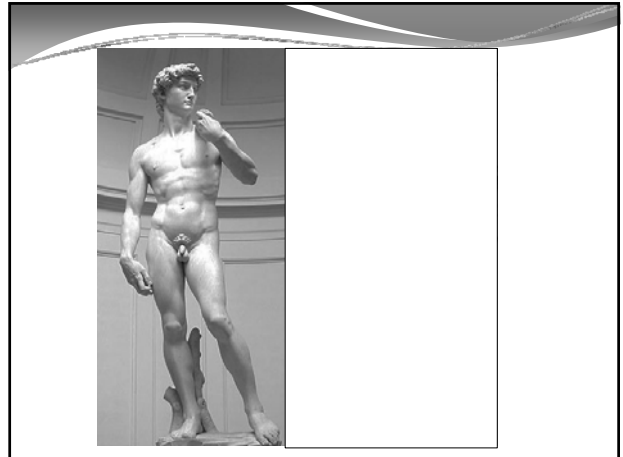


**CROHNS AND COLITIS IN CHILDREN –
A GROWING PROBLEM:
A CAUSE? A CAPSULE? A CURE?**

Tony Catto-Smith
Josef Wagner
Jeremy Rosenbaum
Don Cameron



A good set of bowels is worth more to a
man than any quantity of brains

Josh Billings

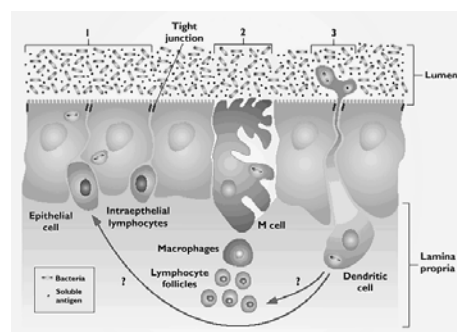


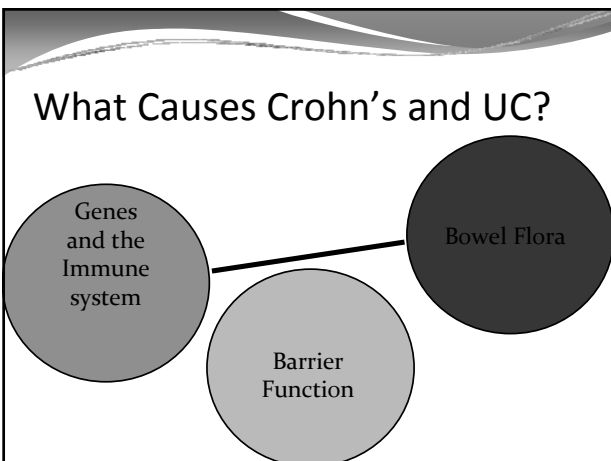
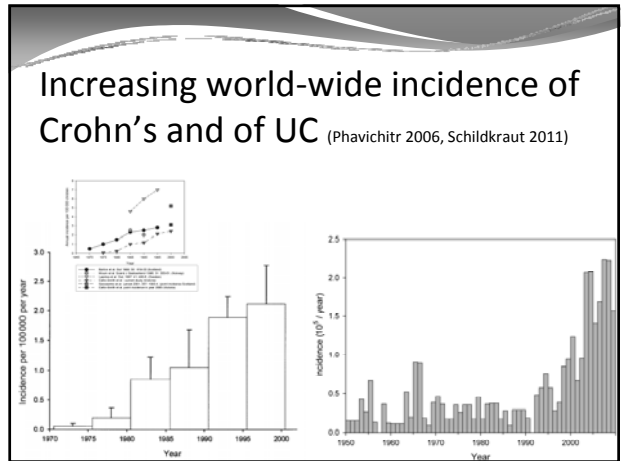
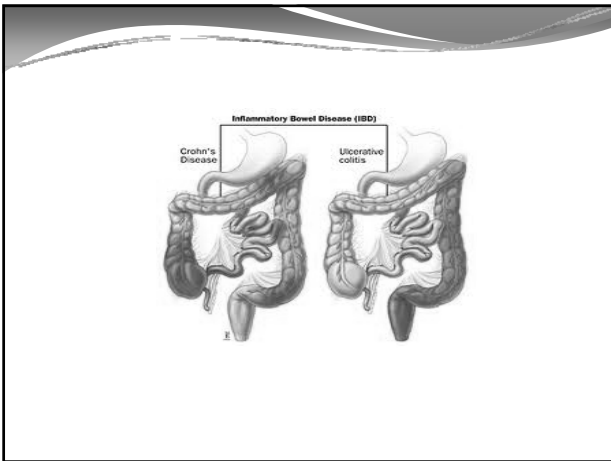
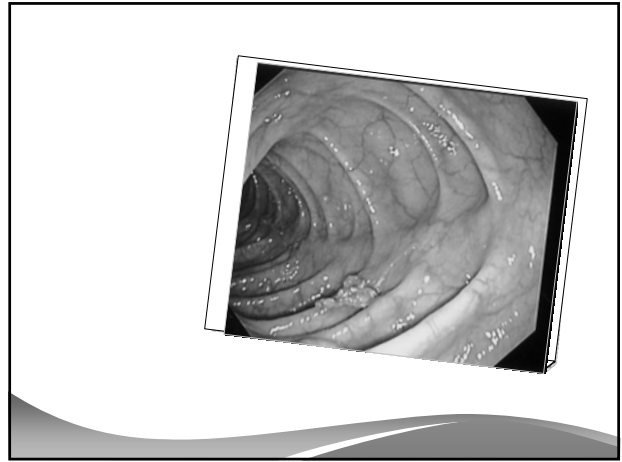
Who are we?

- Human
 - 1 species
 - 10^{13} cells
 - 23,000 genes
- Gut Flora
 - 1,000 species
 - 10^{14} cells
 - 3.3 MILLION genes

Qin et al. Nature 2010

The Gut as a Barrier (Gewirtz & Madara. Nature Immunol 2001)





Microbes and Genetics in paediatric Crohn's disease

• Dr Josef Wagner

- Are there specific pathogens?
- Genetic variation in mucosal defence

Over 30 genomic regions account for 50% risk of Crohn's disease

Crohn's disease – diagnosis and
ongoing assessment

• Dr Jeremy Rosenbaum



No cure yet, but **Treatment** –
from shotguns to the smart bomb

• A/Prof Don Cameron

