

Faecal Microbiome in newly diagnosed Paediatric Inflammatory Bowel Disease

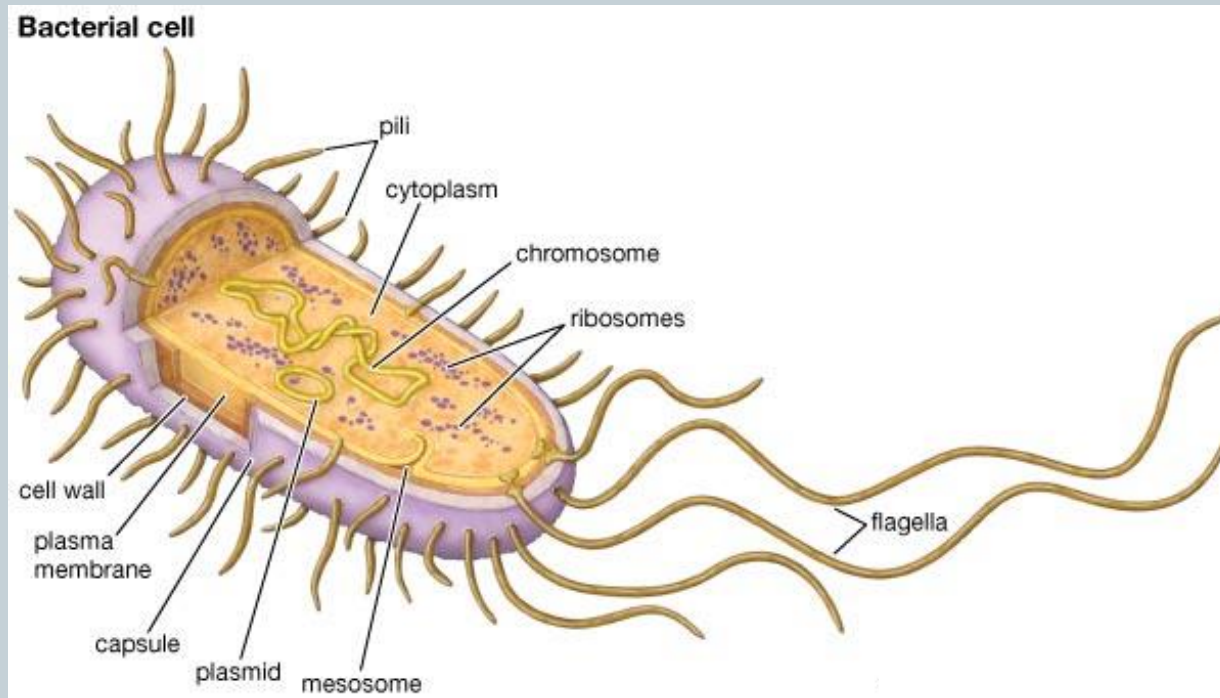


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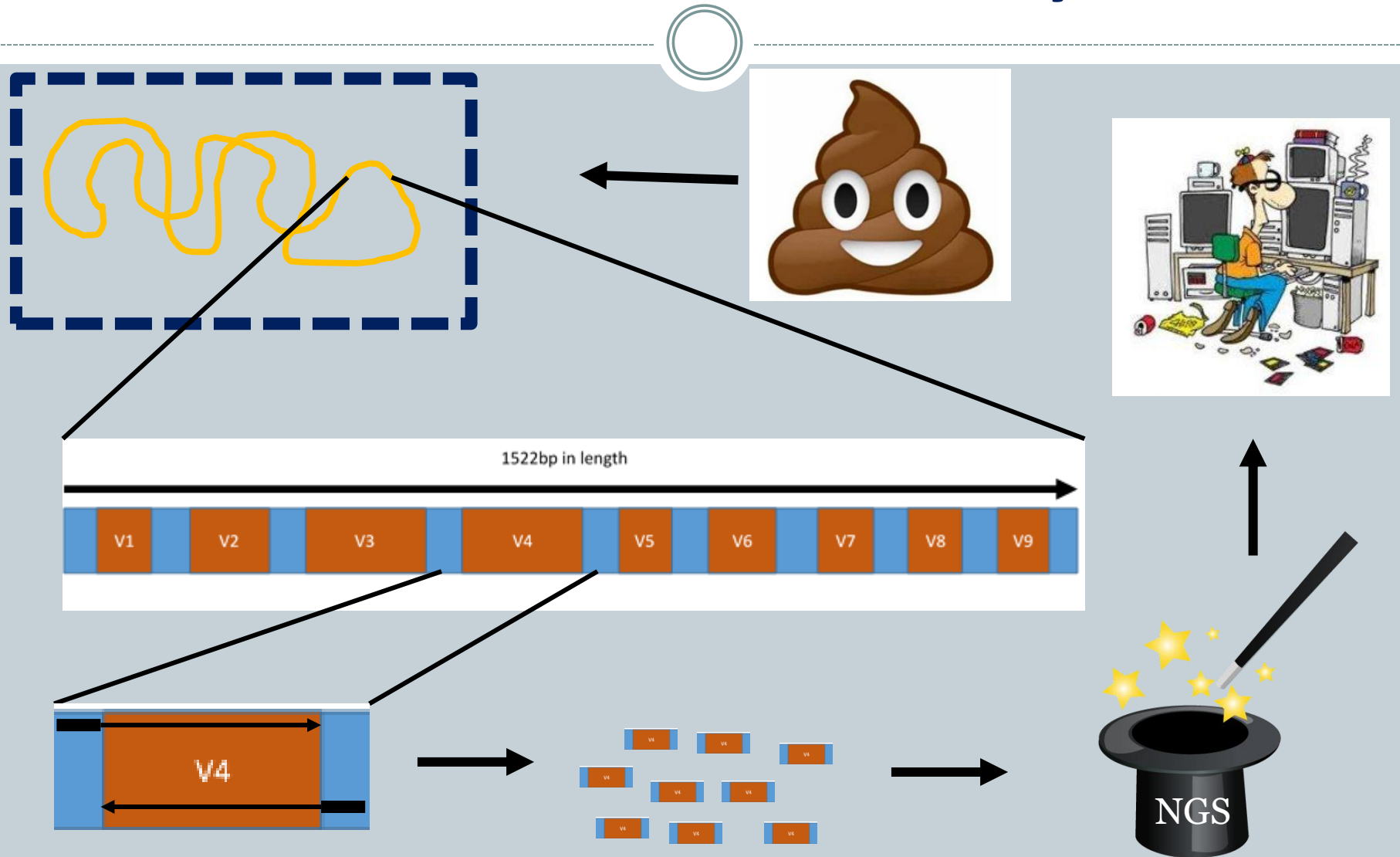
What is the Microbiome?

‘The collective genomes and gene products of the microbiota residing within an organism’



Normal is hugely variable

How is the Microbiome Analysed?



IBD and the Microbiome



- **What is IBD?**
 - Crohn's disease, Ulcerative Colitis, IBDU
 - More severe in Children
 - Interaction between genes, immune system and environmental factors
- **How does the Microbiome impact on IBD**
 - Gut mucosa is important in immune regulation and recognition
 - Bacterial dysbiosis
 - Abnormal bacteria triggers disease or Disease triggers abnormal bacteria?
- **What have we done in this study?**
 - Faecal samples over 6-8 week in 6 patients and 3 sibling controls
 - Descriptive and functional analysis

Conclusions



- Statistically significant change in functional potential of bacteria from diagnosis to remission
- Sibling controls have similar profiles to patients at diagnosis
- More patients needed for longitudinal study
- Mucosal microbiome is important



Questions?

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