Microbiome-DOHaD interactions

Diet:
- Nutrition/malnutrition

Microbiome
- Community / geography
- Antibiotics (drugs)

Metabolome
- Antimicrobials (dietary etc)

Site/region
- Vagina/uterus/amniotic cavity
- Maternal upper/lower GI tract
- Maternal breast/milk
- Neonatal mouth/gut/stomach
- Neonate lungs/airways
- Child gut/lungs/airways

Nutrients (e.g. SCFA)

Host:
- Development
- Growth
- Obesity
- Immune status
- Pathogens
- Behaviour
- Health & Disease

Host immunity
• Richard Allcock (RPH): Sequencing and Metagenomic facilities in WA
• Mike Clarke (Metabolomics WA): Metabolomic analysis facilities in WA
• Saskia Decuypere (ICHR): Metabolomic analysis and interpretation
• Tim Perkins (UWA/Marshall Centre): Bioinformatics and microbiome research
• Phil Melton (CGOHaD): Bioinformatics in metagenomics.....?
• Belinda Hales (TICHR): The origin and health implications of the lung microbiome
• Ruth Thornton (CCHR/PMH): The microbiome of the upper airways...?
• Mohammed Benghezel (UWA/Marshall Centre): The microbiome of the stomach and upper GI tract
• Matt Payne (KEMH/UWA): The microbiome of the vagina and amniotic cavity in pregnancy
• Jeff Keelan (KEMH/UWA): Changes in the microbiome of the maternal GI tract in pregnancy
• Sanjay Patole (KEMH): The microbiome of the neonatal GI tract: development and clinical implications
• Donna Geddes (UWA): The microbiome of the breast/breast milk and its significance
• Susan Prescott (TICHR/PMH): Microbiome-metabolome interactions and immunity
• Shelley Gorman (TICHR): Effects of Vitamin D and other exogenous immunomodulators / antimicrobials on the microbiome
• Aveni Haynes (PMH): Relationships between the microbiome, obesity and diabetes.
• Andrew Whitehouse (TICHR): Microbiota, metabolome and behavior/neurodevelopment