The Gut-Brain Axis

Description: The Gut-Brain Axis: Dietary, Probiotic, and Prebiotic Interventions on the Microbiota examines the potential for microbial manipulation as a therapeutic avenue in central nervous system disorders in which an altered microbiota has been implicated, and explores the mechanisms, sometimes common, by which the microbiota may contribute to such disorders.

- Focuses on specific areas in which the microbiota has been implicated in gut-brain communication
- Examines common mechanisms and pathways by which the microbiota may influence brain and behavior
- Identifies novel therapeutic strategies targeted toward the microbiota in the management of brain activity and behavior

Contents:

Global and Epidemiological Perspectives on Diet and Mood
Targeting the microbiota: Considerations for developing probiotics as functional foods
Food- and non-food based strategies for effective delivery of probiotics
Bioactive- and non-bioactive food constituents and their influence on the microbiome
Correlating the gut microbiome to health and disease
The microbiome and aging: Impact on health and wellbeing
Importance of the microbiota in early life and influence on future health
Utility of microbial genome sequencing in probiotic strain identification: Promises and pitfalls
Germ-Free Animals: A Key Tool in Unravelling How the Microbiota Affects Brain and Behavior
Sensitivity of the hypothalamic-pituitary-adrenal axis to the gut microbiota: Opportunities for dietary intervention
A neuroactive microbiome
The influence of diet and the gut microbiota in schizophrenia
Influence of the microbiota on the development and function of "the second brain" - the enteric nervous system
Dietary inventions and brain-gut disorders
Altering the gut microbiome for cognitive benefit?
The role of the microbiota in neurodevelopmental disorders
The role of the microbiota and potential for dietary intervention in chronic fatigue syndrome
Potential for pre and probiotics in managing psychological symptoms associated with alcohol-dependence
Where next for dietary interventions and the brain-gut axis?
Perspectives on targeting the microbiome in developing global populations
Regulatory considerations for the use and marketing of probiotics and functional foods
Microbiota and Metabolism

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