

1ST NETWORK MEETING / SUMMER SCHOOL I

ITN SmartAge; Gut-brain-axis: Targets for improvement of cognition in the elderly

13 - 15 October 2021, Zoom-Web Conference

PROGRAMME	Wednesday 13 October 2021
09:00 - 09:30 CET	Otto W. Witte (UKJ), Coordinator Welcome and Overview of the SmartAge project status
	ESR Introduction Part 1 / Chair: Christiane Frahm (UKJ)
09:30 - 09:50 CET	Franziska Kromm (UniVie), ESR1 Intestinal barrier function in age-dependent gut-brain interaction: dietary interventions with oat β-glucans
09:50 - 10:10 CET	Alejandra Nunez Torres (UniVie), ESR2 Intestinal barrier function in age-dependent gut-brain interaction: pharmacological interventions with metformin
10:10 - 10:30 CET	Ida Kułacz (UKJ), ESR4 Age-dependent gut-brain interactions in mice: modulation by physical activity
10:30 - 10:50 CET	Inés Martínez Sánchez (KI), ESR6 Peptidoglycan sensing molecules as brain sensors for gut-induced inflammation
10:50 - 11:10 CET	break
	ESR Introduction Part 2 / Chair: Christoph Kaleta (CAU)
11:10 - 11:30 CET	Tannaz Saraei (UKJ), ESR11 Changes in individual BrainAGE score and brain plasticity induced by physical activity
11:30 - 11:50 CET	Stefano Flor (CAU), ESR12 Elucidation of transcriptomic signatures in preserving cognition in old age
11:50 - 12:10 CET	Bram Nap (NUIG), ESR13 Impact of microbiome-host cross-talk on decline and preservation of cognition during aging
12:10 - 13:10 CET	Lunch break
	ESR Introduction Part 3 / Chair: Kathrin Finke (UKJ)
13:10 - 13:30 CET	Simon Schrenk (UKJ), ESR5 Age-dependent impact of physical activity on gut-brain axis in humans
13:30 - 13:50 CET	Angela Del Castillo Izquierdo (IDIBGI), ESR8 Impact of the gut microbiome on cognitive function in middle-aged subjects. Effects of weight loss
13:50 - 14:10 CET	Marisel Rosell Diaz (IDIBGI), ESR9 Impact of the microbiome on cognitive function in middle-age subjects. Effects of metformin.

14:10 - 14:30 CET	Kirsten Krüger (WUR), ESR10 Impact of late-life nutritional interventions on microbiome/cognition
14:30 - 14:50 CET	Myeonghyun Yoou (CM), ESR14 Bioinformatics analysis of the gut-microbiome during aging and following late-life interventions with respect to cognitive functions
14:50 - 15:10 CET	break
15:10 - 15:30 CET	Discussion Session (if necessary)
15:30 - 16:00 CET	Only ESRs (Breakout Session) Election of the two ESR representatives for the Supervisory Board

PROGRAMME	Thursday 14 October 2021
09:00 - 10:00 CET	Only Supervisory Board Members (Breakout Session) Supervisory Board Meeting
	ESR Introduction Part 4 / Chair: Cécile Perrault (EDEN)
10:00 - 10:20 CET	Silvia Tea Calzuola (EDEN), ESR3 Development of a microfluidic perfusion-station (gut-on-a-chip)
10:20 - 10:40 CET	Kanni Das (CRO), ESR7 Microbiota-gut-brain axis: Inflammatory and immune markers during aging and following interventions
10:40 - 11:00 CET	Iris Rafaela Montez de Sousa (ZHAW), ESR15 Impacts of nutrition communication strategies on eating behaviour – best practice models to enhance compliance and adherence to healthy nutrition in different target groups
11:00 - 11:30 CET	Discussion Session
11:30 - 12:30 CET	Lunch break
12:30 – 14:00 CET	Vera Schneider (EURICE) - “Introduction to Horizon Europe” Introduction to the overall structure of Horizon Europe and relevant programmes for educational and research project funding (Individual Grants, Mobility Grants, Collaborative Projects, Networks, etc.) Learning Objectives: <ul style="list-style-type: none"> • Getting an overview (the “Big Picture”) of the different Horizon Europe grant schemes • Novelties and important strategic directions incl. project evaluation criteria • Key features and differences of the main EU funding programmes • Addressing EU grant schemes within the academic career development

PROGRAMME	Friday 15 October 2021
09:00 - 10:00 CET	Keynote Lecture Rafael Maldonado, PhD Gut-brain-axis: translational studies to identify novel targets Chair: José Manuel Fernández-Real (IDIBGI)
	Summer School Lectures by IDIBGI Chair: José Manuel Fernández-Real (IDIBGI)
10:00 - 10:20 CET	María Arnorriaga-Rodríguez, MD and PhD candidate Gut-brain-axis human studies conducted at IDIBGI
10:20 - 10:40 CET	Josep Puig, MD and PhD MRI and human brain: essentials to understand data
10:40 - 11:00 CET	break
11:00 - 11:20 CET	Jordi Mayneris-Perxachs, PhD OMICs for the studies at the gut-brain axis
11:20 - 11:40 CET	Anna Motger, M.Sc. Neuropsychological assessment in the context of the gut-brain axis
11:40 - 12:00 CET	José Manuel Fernández-Real, MD, PhD Relationships between brain structure and function and the gut microbiota
12:00 - 12:30 CET	Summer School: Discussion Session and Closing Remarks Chair: José Manuel Fernández-Real (IDIBGI)