



PHD COURSE: Tracing brain and behavioural changes across the life span: Influence of intrinsic and extrinsic factors

Venue: Auditorium A1, Educational building, East entrance (*Old main entrance*), first building to the right, Hvidovre Hospital, Kettegaard Allé 30, Hvidovre (*see map on page 3*)

29/09-2025	Lectures	Population neuroscience across the lifespan
		Coffee
09:00 - 09:15		Welcome and Introduction to the course Kathrine Skak Madsen
09:15 - 10:10		Epidemiology, Registries and longitudinal designs: a general introduction Katrine Strandberg-Larsen
10:10 - 10:30		Coffee break
10:30 - 11:25		Epidemiology, Danish National Birth Cohort and the EATus research programme Katrine Strandberg-Larsen
11:25 - 11:30		5 min break
11:30 - 12:10		Get to know your fellow course participants
12:10 - 12:55		Lunch
12:55 - 13:50		Life-course disease trajectories at the population-wide scale Søren Brunak
13:50 - 13:55		5 min break
13:55 - 14:50		Epidemiology and Precision Psychiatry: Immuno-Psychiatry Michael Benros
14:50 - 15:15		Coffee break
15:15 - 16:10		Open Science in Brain and Behavioural Research Melanie Ganz
16:10 - 16:20		Closing remarks
30/09-2025	Lectures	Brain and Behaviour Relationships Across the Lifespan: Part 1
		Coffee
09:00 - 09:05		Introduction to the day Kathrine Skak Madsen
09:05 - 09:50		Quantifying spatiotemporal maturation of the fetal brain from 3D Ultrasound Madeleine Wyburd
09:50 - 09:55		5 min break
09:55 - 10:50		Development of social and cognitive functions in early childhood Victoria Southgate
10:50 - 11:10		Coffee break
11:10 - 12:05		Brain maturation from childhood to early adulthood Kathrine Skak Madsen
12:05 - 12:50		Lunch
12:50 - 13:45		Developmental changes in the Electroencephalogram (EEG) Melissa Larsen
13:45 - 13:50		5 min break
13:50 - 14:45		Childhood adversity, brain development, and mental disorders in childhood and adolescence Mette Falkenberg Krantz
14:45 - 15:05		Coffee break
15:05 - 16:15		Group work: preparation for discussion on day 5
16:15 - 16:20		Closing remarks



01/10-2025 Lectures Brain and Behaviour Relationships Across the Lifespan: Part 2

	Coffee
09:00 - 09:05	Introduction to the day William Baaré
09:05 - 10:00	Brain and Cognitive changes in typical Ageing: Why do some people remain cognitively able in old age? Rik Henson
10:00 - 10:20	Coffee break
10:20 - 11:15	Neurostereology and molecular biology in health and disease. A brain bank perspective Jonas Folke
11:15 - 12:15	Lunch
12:15 - 13:10	Lifetime perspectives of motor control Hartwig Siebner
13:10 - 13:15	5 min break
13:15 - 14:10	What we have learned about the cognitive neuroscience of ageing from the CamCAN cohort" Rik Henson
14:10 - 14:30	Coffee break
14:30 - 16:15	Statistical methods for relating Age, Brain and Cognition: as easy as 'ABC'!: A workshop with Rik Henson
16:15 - 16:20	Closing remarks

02/10-2025 Lectures Modeling Brain Changes Throughout the Lifespan

	Coffee
09:00 - 09:05	Introduction to the day Melissa Larsen
09:05 - 09:55	The Hitchhiker's Guide to Longitudinal Models. Part 1 Ethan McCormick
09:55 - 10:15	Coffee break
10:15 - 11:05	The Hitchhiker's Guide to Longitudinal Models. Part 2. Ethan McCormick
11:05 - 11:10	5 min break
11:10 - 12:10	Longitudinal modelling practical example(s)
12:10 - 12:55	Lunch
12:55 - 13:45	Normative modelling in health and disease with a focus on psychiatry Christian Beckmann
13:45 - 13:50	5 min break
13:50 - 14:20	Normative modelling practical example
14:20 - 14:40	Coffee break
14:40 - 15:30	Machine learning and AI in lifespan/neuroscientific research Christian Beckmann
15:30 - 15:35	5 min break
15:35 - 16:05	Machine learning/AI practical example
16:05 - 16:10	Closing remarks

