



## **COURSE CARD: E3S - NL - WUR - 6**

- University: Wageningen University, the Netherlands
- Course: Nutritional Neurosciences
- Course code: HNE-51306
- Credits: 6
- Language: English
- Instructor: prof. C de Graaf, dr G Jager, dr S Boesveldt, dr PAM Smeets, dr O van de Rest, prof. RF Witkamp, dr E van Kleef, IC Schrieks MSc
- When: Yearly (January), next course starting January 2013. Precise program to be found at: <https://ssc.wur.nl/Studiegids/Vak/HNE-51306>
- Content: This course focuses on acquisition of knowledge and skills for the study of the emerging field of human nutritional neurosciences, at the interface of neurobiological and behavioral sciences. The course consists of plenary lectures and practical work. Lectures cover both basic as well as state of the art topics: Magnetic Resonance Imaging (MRI) and functional MRI; electrophysiological measurements related to food choice and eating behavior; the effects of macro- and micronutrients on human brain function and behavior; foods and supplements that modulate human cognitive brain function and behavior; the neurobiological basis of sensory perception, satiety and food-related cognitive processes; neuro-economics and marketing.
- The practical work includes supervised tutorials and a computer training. Tutorials cover various parts of the brain involved in sensory perception, satiety and food-related cognitive processes, and how these brain areas function. Computer training involves instruction and practice sessions on SPM (Statistical Parametric Mapping), a software toolkit for the analysis of functional MRI data.
- Textbook: Course reader
- Requirements: Basics of human physiology, basics of Nutrition Behaviour



For whom:      Obligatory course for BSc Minor Psychobiology of Eating Behaviour, optional course for others

Students (n):   -

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