



## **May-Britt Moser and Edvard Moser**

### **Psychologists and Neuroscientists**

May-Britt is the head of department of the Centre for Neural Computation at the Norwegian University of Science and Technology (NTNU). She and her then-husband, Edvard Moser, pioneered research on the brain's mechanism for representing space together with their mentor John O'Keefe. The Mosers discovered types of cells that are important for determining position (spatial representation) close to the hippocampus, an area deep in the brain that is important for encoding of space, and also for episodic memory. Moser investigated correlations between the anatomical structure of the hippocampus and social learning in rats. Moser's work gave the ability for scientists to gain new knowledge into the cognitive processes and spacial deficits associated with human neurological conditions such as Alzheimer's disease.

May-Britt and Edvard Moser shared half of the 2014 Nobel Prize in Physiology or Medicine, awarded for work concerning the grid cells in the entorhinal cortex, as well as several additional space-representing cell types in the same circuit that make up the positioning system in the brain. The other half of the prize was awarded to John O'Keefe. The Mosers were 1 of 5 couples to win a Nobel Prize.

May-Britt's Website <http://www.ntnu.edu/employees/may-britt.moser>

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