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Mar 20th, 11:30 AM

Arkansas Women in STEM Conference

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Biography



May-Britt Moser was born on a small island on the west coast of Norway on January 4, 1963. Her father was a carpenter, and her mother took care of their farm and livestock while raising May and her four siblings.

"I learned at an early age that work makes you happy" she quoted after watching her parents work so hard for so long.

She studied psychology at the University of Oslo then went on to complete her doctoral work at the University of Edinburgh and University College London.

It was during her undergraduate study that she met her future husband, Edvard. They now have two daughters together.

Upon completing her doctoral work May and Edvard Moser moved to the Norwegian University of Science and Technology where she is now a professor of neuroscience and the Director of the Center for Neural Computation.

Acknowledgements

Thank you, Dr. Hubbard, for the opportunity and guidance to research something that is so close to my heart. Your patience and encouragement is so deeply appreciated.

Discovery and Achievements

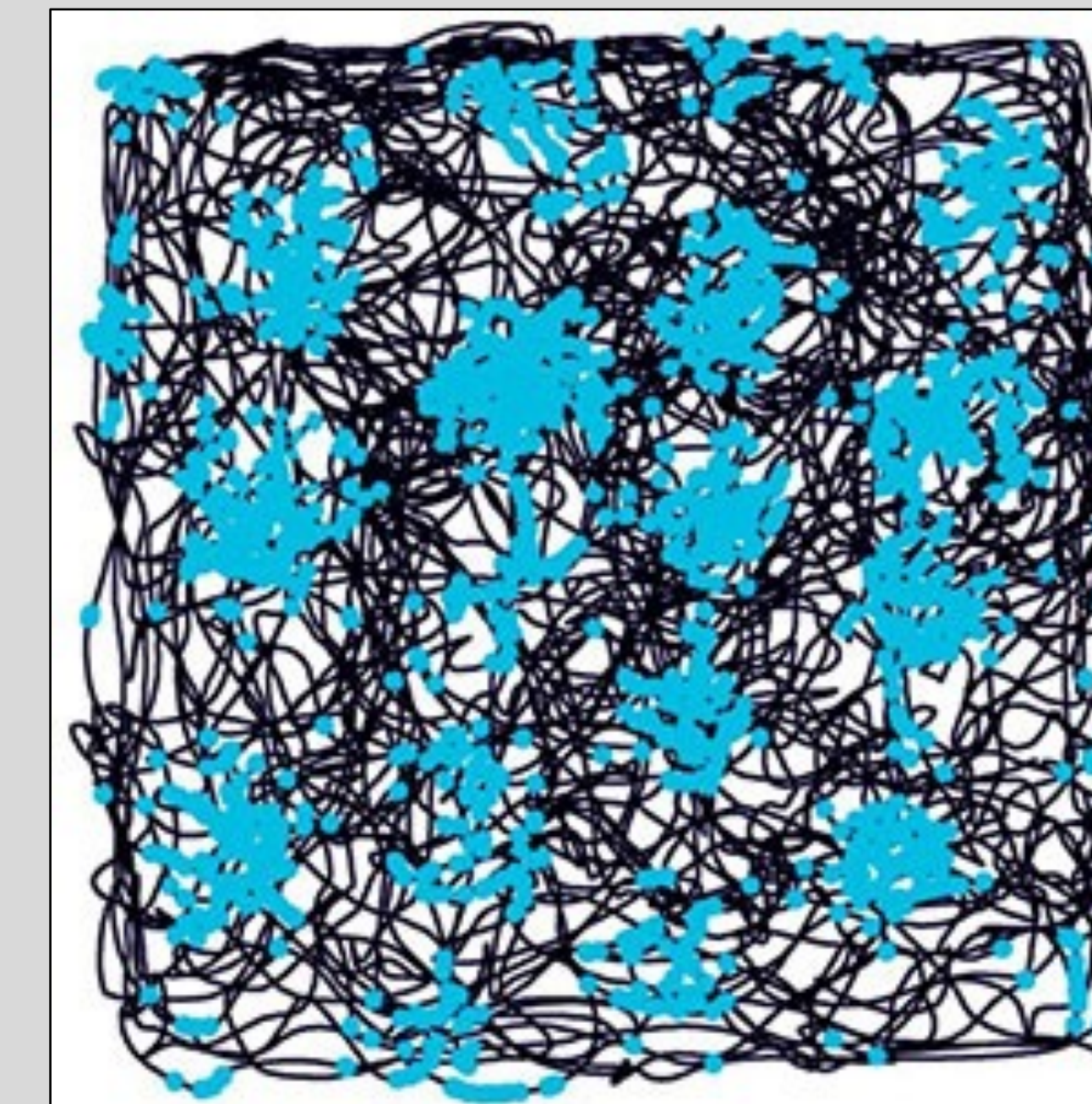
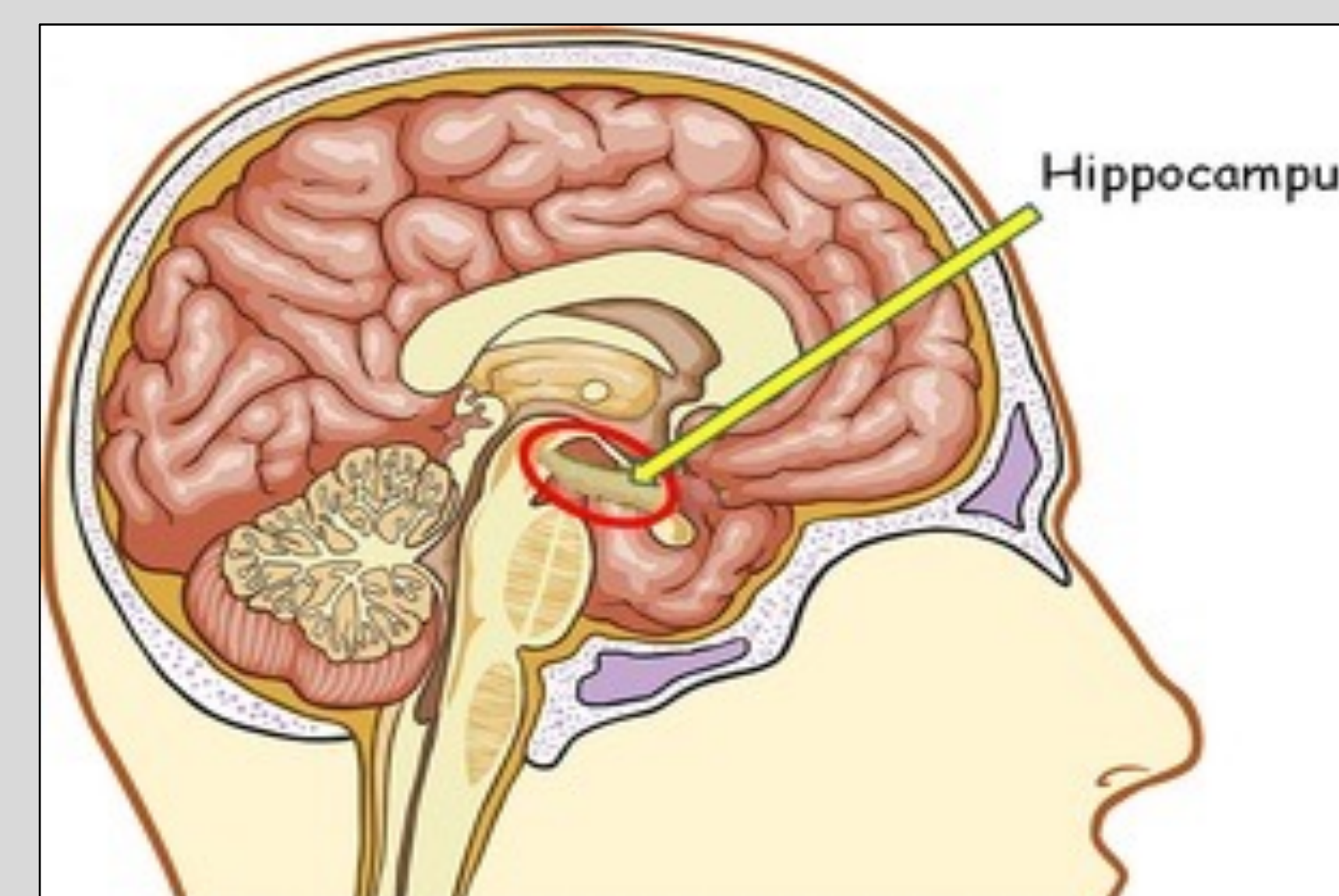
Recognition and Awards:

- May-Britt Moser founded and directed the Centre for Neural Computation, Co-Directed the Kavli Institute for Systems Neuroscience, Co-founder for the Centre for the Biology of Memory- which has become a research Centre of Excellence.
- In 2013 she was presented with the Louisa Gross Horwitz Prize for Biology and Biochemistry. In 2014 May-Britt Moser and long-time collaborator and husband, Edvard Moser were awarded the Nobel Prize along with partner, John O'Keefe, for their work in Physiology and Medicine. May and Edvard are one of only five married couples to win the award.



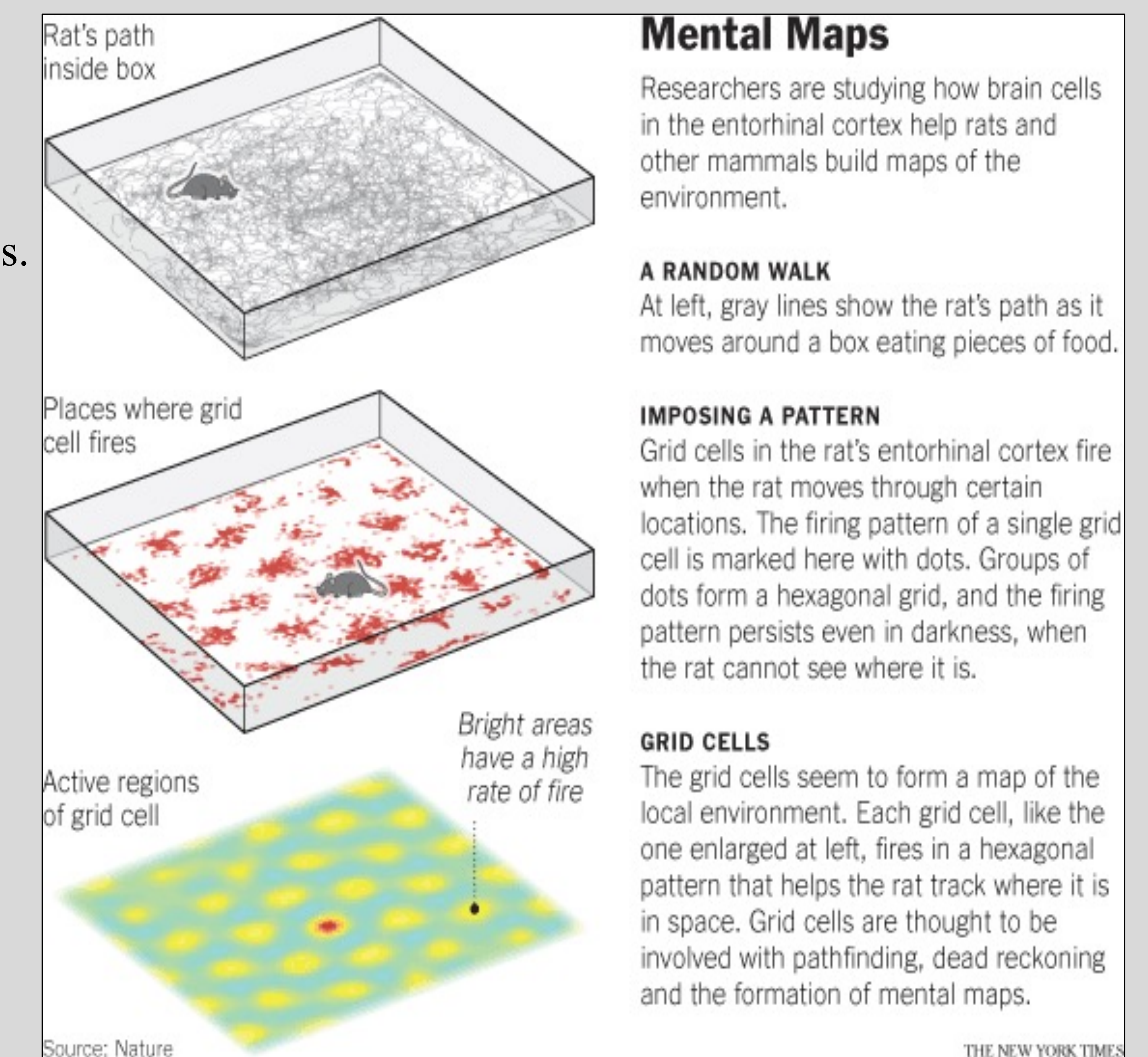
Grid Cells and the Hippocampus:

- Her most recognizable work is from the discovery and advancement of grid cells.



Relation to Alzheimer's and Memory Related Disease:

- May-Britt Moser has made considerable strides towards Alzheimer's research
- Her development and use of grid cells has given others the ability to look deeper into cognitive processes and spatial deficits associated with human neurological conditions, such as Alzheimer's Disease.
- Moser's work relates to Alzheimer's because the area of brain where the grid cells are located is typically one of the first areas attacked by the disease.



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