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THE **KAVLI** Institute for Brain and Mind at UCSD
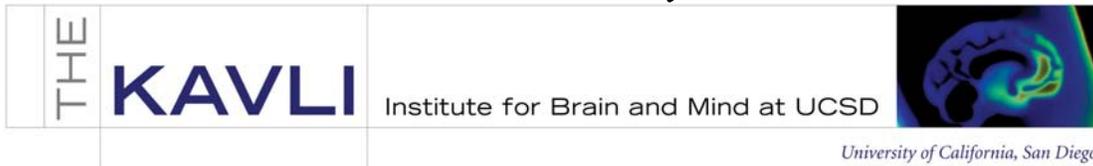
University of California, San Diego

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May-Britt Moser

Professor and Co-Director
The Centre for the Biology of Memory
Norwegian University of Science and Technology

"Computational Functions of Hippocampal Subfields"

Converging evidence points to the recurrent networks of the hippocampus as a possible attractor-based neural network capable of performing both pattern completion and pattern separation. In my talk, I will show how the recurrent network of the CA3 subfield of the hippocampus may store both continuous and discontinuous representations of the animal's environment, and how transitions between these representations in the hippocampus may reflect alignment of a universal path-integration based spatial map upstream in the medial entorhinal cortex. In the final part of the talk, I will present evidence for a primary role of the dentate gyrus in orthogonalization or decorrelation of inputs to the hippocampus.

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Wednesday, February 22nd
Noon
Leichtag Auditorium
School of Medicine

Located in the Leichtag Family Biomedical Building, 804 on UCSD map
Map can be found at http://maps.ucsd.edu/Acrobat/MainCampus.pdf