

Remapping Of Place Cell Firing Patterns After Maze Rotations

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Place cells have the ability to suddenly change their firing pattern from one pattern to another, a phenomenon known as remapping. This remapping may occur in either some of the place cells, or in all place cells at once. It may be caused by a number of changes, such as a change in the odor of the environment.

Place cell - Wikipedia

When place cells are recorded from rats running on an elevated T-maze inside a curtained enclosure that contains distinct, experimenter selected stimuli, rotations of the maze plus stimuli cause equal rotations of firing fields. Here, we examined the effects of conflicting rotations of a T-maze relative to a laboratory frame that contained a large number of fixed stimuli in the environment and ...

Remapping of place cell firing patterns after maze ...

Firing rate maps of place cells in experiment 1. Cell 1 had its field in the central platform while cell 2 had its field in a maze arm. Both fields stayed stable relative to the laboratory after ...

(PDF) Remapping of place cell firing patterns after maze ...

By contrast, when there is only a slight change in an environment, hippocampal place cells show changes in their firing rates, while keeping the position of firing field constant (rate remapping) (Leutgeb et al., 2005a, 2007). Although it is likely that both global remapping and rate remapping are needed for high-precision spatial memory, the disruption in global remapping would completely deprive AD patients of spatial information about which environment they are currently occupying.

Disrupted Place Cell Remapping and Impaired Grid Cells in ...

Remapping Of Place Cell Firing Patterns After Maze Rotations Author: www.infraredtraining.com.br-2020-11-12T00:00:00+00:01 Subject: Remapping Of Place Cell Firing Patterns After Maze Rotations

Keywords: remapping, of, place, cell, firing, patterns, after, maze, rotations Created Date: 11/12/2020 2:03:33 PM

Remapping Of Place Cell Firing Patterns After Maze Rotations

Department of Clinical Neurobiology, German Cancer Research Center (DKFZ), Medical Faculty of Heidelberg University, Heidelberg University, Heidelberg, Germany. The activity of hippocampal cell ensembles is an accurate predictor of the position of an animal in its surrounding space. One key property of hippocampal cell ensembles is their ability to change in response to alterations in the surrounding environment, a phenomenon called remapping.

Frontiers | Hippocampal Remapping and Its Entorhinal ...

Place cell remapping was initially conceptualized as being a sudden transition of the place cell network from one state to the next following the large perturbation arising from environmental change , an idea that has been very influential.

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Place Cells, Grid Cells, Attractors, and Remapping

The angular positions of hippocampal place cell firing fields are accurately controlled by the position of a single salient cue card attached to the wall of a recording cylinder; when the card is rot...

Further study of the control of place cell firing by intra ...

When place cells undergo rate remapping, simultaneously recorded grid cells do not change their firing in a consistent way. 3. Global (place) remapping: in some cases, environmental changes can change the position of the place fields in an unpredictable way.

Place Cell - an overview | ScienceDirect Topics

Cells 2,3: further examples of global remapping in place cell responses, where cells cease firing or change their firing locations between different environments (adapted from). Grid cells A principal neocortical input to the hippocampus arises in the superficial layers of mEC 60 , 61 , where grid cells are the most numerous spatially modulated cell type 8 , 62 .

What do grid cells contribute to place cell firing ...

Remapping of place cell firing patterns after maze rotations . By Arnaud Cressant, Robert U. Muller and Bruno Poucet. Cite . BibTex; Full citation; Publisher: Springer Science and Business Media LLC. Year: 2003. DOI identifier: 10.1007/s00221-002-1013-0. OAI identifier: Provided by: ...

Remapping of place cell firing patterns after maze ...

REMAPPING AND MEMORY One of the events that pointed to place cells as an expression of declarative memory was the discovery of remapping, or the fact that any place cell is part of not one, but many independent representations.

Place Cells, Grid Cells, and Memory

Second, global remapping would predict that many cells stopped firing completely in one running direction; however, even during rate remapping the changes in rate can be sufficient to cause a few cells to have firing probabilities that approach zero in a given location in one or other condition (Leutgeb et al., 2005). Forty-eight fields (25 percent) ended with no spikes in at least one running direction.

Experience-dependent firing rate remapping generates ...

Ignoring specific contexts and focusing only on the number of conditions in which a cell could potentially fire and what remapping patterns it could show between these conditions, 11 remapping profiles are possible: (1) a cell that fires in one condition only (which we will call profile A); (2) a cell that fires in two conditions only, where the fields could be the same or different (profiles B1 and B2, respectively); (3) a cell that fires in three conditions only, where the fields could be ...

Heterogeneous Modulation of Place Cell Firing by Changes ...

Similarly, when objects within an environment are rotated then cells with place fields closer to the objects would be more likely remap (with ceased firing or change in place field location) than ...

(PDF) Local remapping of place cell firing in the Tolman ...

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Grid cells and place cells have an ability to store distinct firing patterns corresponding to different environments, a function called remapping Muller and Kubie, 1987 Muller R.U.

Disrupted Place Cell Remapping and Impaired Grid Cells in ...

Fear conditioning caused many place cells to alter (or remap) their preferred firing locations in the training environment, whereas most cells remained stable in the control environment. This finding indicates that aversive reinforcement can induce place cell remapping even when the environment itself remains unchanged.

Putting Fear in Its Place: Remapping of Hippocampal Place ...

The existence of place cells, whose discharge is strongly related to a rat's location in its environment, has led to the proposal that they form part of an integrated neural system dedicated to spati...

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