

Accepted Manuscript

Title: Barlow versus Hebb: When is it time to abandon the notion of feature detectors and adopt the cell assembly as the unit of cognition?

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PII: S0304-3940(17)30297-5
DOI: <http://dx.doi.org/doi:10.1016/j.neulet.2017.04.006>
Reference: NSL 32747

To appear in: *Neuroscience Letters*

Received date: 3-1-2017
Revised date: 1-4-2017
Accepted date: 3-4-2017

Please cite this article as: Howard Eichenbaum, Barlow versus Hebb: When is it time to abandon the notion of feature detectors and adopt the cell assembly as the unit of cognition?, *Neuroscience Letters* <http://dx.doi.org/10.1016/j.neulet.2017.04.006>

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Barlow versus Hebb: When is it time to abandon the notion of feature detectors and adopt the cell assembly as the unit of cognition?

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Highlights In higher order areas and complex tasks, neurons exhibit mixed selectivity and dependence on cognitive demands

- These properties are observed in inferotemporal cortex, prefrontal cortex, and the hippocampus
- New population analyses reveal how cell assemblies in these brain areas organize task relevant knowledge

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