



My F1000 Biology | Browse the Faculties | Top 10s | Advanced Search | My Details | About | Faculty Member List | Compose Evaluation

F1000 Factor **6.0**EndNote [Download citation](#)[Send page by email](#)[Evaluate article](#)[Add dissent](#)

### Effects of Healthy Aging on Hippocampal and Rhinal Memory Functions: An Event-Related fMRI Study.

Daselaar SM, Fleck MS, Dobbins IG, Madden DJ, Cabeza R

*Cereb Cortex* 2006 Jan 18 [[abstract on PubMed](#)] [[related articles](#)]Selected by | Howard Eichenbaum **NEW**

Evaluated 31 Jan 2006

[Relevant Sections](#)

## Faculty Comments

### Faculty Member

#### Howard Eichenbaum

Boston University, United States  
of America  
NEUROSCIENCE

Controversial

### Comments

**This paper addresses the current controversy about whether recognition memory is supported by two processes, recollection and familiarity, and whether these processes are supported by distinct brain areas.** The study exploits the common finding that normal aging results in the selective loss of recollection. The results show that the loss in recollection is associated with less activation of the hippocampus in aged subjects compared to young subjects. Importantly, when overall performance is equated, aged subjects compensate through increased activation of the parahippocampal region. This double dissociation provides strong evidence for two processes mediated separately by the hippocampus and parahippocampal region.

Evaluated 31 Jan 2006 **NEW**[cite this evaluation](#)

## Faculty Comments

### How to cite the Faculty of 1000 Biology evaluation(s) for this paper

#### 1) To cite all the evaluations for this article:

Faculty of 1000 Biology: evaluations for Daselaar SM et al *Cereb Cortex* 2006 Jan 18 : <http://www.f1000biology.com/article/16421332/evaluation>

#### 2) To cite an evaluation by a specific Faculty member:

Howard Eichenbaum: Faculty of 1000 Biology, 31 Jan 2006 <http://www.f1000biology.com/article/16421332/evaluation>