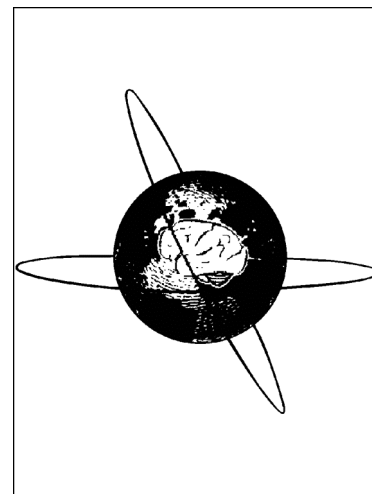


## Accepted Manuscript

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**Pain perception in patients with chronic disorders of consciousness: what can  
limbic system tell us?**

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**HIGHLIGHTS**

1. Preliminary data exist for the presence of pain perception in some unresponsive wakefulness syndrome (UWS) patients.
2. Pain-induced  $\gamma$ -oscillations within limbic system are related with pain perception in disorder of consciousness patients.
3. Limbic system activation was preserved in some UWS patients, suggesting that they perceive the affective component of pain.

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