<table>
<thead>
<tr>
<th>Title</th>
<th>The effect of pain on cognitive function: a review of clinical and preclinical research.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Author(s)</td>
<td>Moriarty, Orla; McGuire, Brian E.; Finn, David P.</td>
</tr>
<tr>
<td>Publication Date</td>
<td>2011</td>
</tr>
<tr>
<td>Link to publisher's version</td>
<td><a href="http://dx.doi.org/10.1016/j.pneurobio.2011.01.002">http://dx.doi.org/10.1016/j.pneurobio.2011.01.002</a></td>
</tr>
<tr>
<td>Item record</td>
<td><a href="http://hdl.handle.net/10379/3129">http://hdl.handle.net/10379/3129</a></td>
</tr>
</tbody>
</table>

Downloaded 2017-06-17T13:32:34Z

Some rights reserved. For more information, please see the item record link above.
Neuroplasticity theory

- ↑ volume
- ↑ EPSP amp.
- ↑ LTP

- ↓ grey matter

- ↓ dendrite length & branching
- ↓ spine density

Limited Resource theory

- ↓ LTP
- ↓ Neurogenesis

Neuromediator theory

- ↑ monoamines
- ↓ N-acetyl aspartate
- ↑ pro-inflammatory cytokines
- ↑ caspases
- ↑ GABA signalling

- ↑ glutamate

- ↑ astroglial activation
- ↑ CB1 activity
- ↑ BDNF

- ↑ glutamate
- ↑ ECs
- ↑ BDNF

Co-activation