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

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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

Co-activation

↑ ECs

↑ BDNF