<table>
<thead>
<tr>
<th>Title</th>
<th>The effect of pain on cognitive function: a review of clinical and preclinical research.</th>
</tr>
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<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>
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<td>Information</td>
<td></td>
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<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>
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<td>Item record</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

- ↓ grey matter
- ↓ dendrite length & branching
- ↓ spine density
- ↓ LTP
- ↑ volume
- ↑ EPSP amp.
- ↑ LTP

Limited Resource theory

- ↓ Neurogenesis
- Co-activation

Neuromediator theory

- ↑ glutamate
- ↑ monoamines
- ↓ N-acetyl aspartate
- ↑ pro-inflammatory cytokines
- ↑ caspases
- ↑ GABA signalling
- ↑ ECs
- ↑ BDNF
- ↑ astroglial activation
- ↑ CB1 activity
- ↑ CB1 activity

Amy
Hipp
PAG
ACC
IC
PFC
Neuroplasticity theory
Limited Resource theory
Neuromediator theory