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<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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<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>
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<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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</table>

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Neuroplasticity theory

↓ grey matter
↓ dendrite length & branching
↓ spine density

↑ volume
↑ EPSP amp.
↑ LTP

↓ LTP
↓ Neurogenesis

Limited Resource theory

Co-activation

Neuromediator theory

↑ astroglial activation
↑ CB1 activity

↑ glutamate
↑ GABA signalling

↑ ECs
↑ BDNF

PFC

↑ monoamines
↓ N-acetyl aspartate
↑ pro-inflammatory cytokines
↑ caspases
↑ glutamate

Hipp

↑ glutamate

Amy

↑ caspases

IC

PAG

↑ inflammatory cytokines
↑ caspases
↑ GABA signalling
↑ CB1 activity
↑ BDNF

↓ grey matter

↑ monoamines