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<tr>
<th>Title</th>
<th>The effect of pain on cognitive function: a review of clinical and preclinical research.</th>
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<tr>
<td>Author(s)</td>
<td>Moriarty, Orla; McGuire, Brian E.; Finn, David P.</td>
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<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><a href="http://hdl.handle.net/10379/3129">http://hdl.handle.net/10379/3129</a></td>
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</tbody>
</table>
Neuroplasticity theory

↑ volume
↑ EPSP amp.
↑ LTP

↓ grey matter
↓ dendrite length & branching
↓ spine density

Limited Resource theory

↓ LTP
↓ Neurogenesis

Co-activation

Neuromediator theory

↑ glutamate

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

↑ astroglial activation
↑ CB1 activity

↑ ECs

↑ BDNF

↓ grey matter

↑ glutamate