<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>
Neuroplasticity theory

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

Limited Resource theory

- Co-activation

Neuromediator theory

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

Neurogenesis

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

Astroglial activation

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

CB1 activity

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

BDNF

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

Grey matter

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

ECs

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

PFC

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

IC

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

Hipp

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

Amy

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

PAG

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