Figure 2.

Differentially regulated genes

<table>
<thead>
<tr>
<th></th>
<th>Spinal Cord Compression (aFDR)</th>
<th>SOD1 G93A mutant (aFDR)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 m, Sham*</td>
<td>4 h, Sham**</td>
</tr>
<tr>
<td></td>
<td>112</td>
<td>27</td>
</tr>
</tbody>
</table>

Functional Headings

A - upregulated predominantly in SCC

- Coagulation
- Cell cycle
- Transcription (mitotic)*
- Phagocytosis
- Inflammatory/Interleukin-6
  - TNF-α
  - Macrophage
  - Chemokine
- BMP signaling
- Angiogenesis
- Adhesion
- Taxis
- Cell migration/motility
- Lipids transport/binding
- Integrin binding
- Development, growth
- Binding (collagen, polysaccharide)

B - upregulated in SCC and in G93A SOD1 mutant

- Microtubule/cytoskeletal
- Protein folding
- Cell (organelle)
- Matrix (extracellular, collagen)
- Inflammatory T-cells
  - Complement
  - MHC
  - Innate
- Metabolism (prostanoid, proteins)
- Apoptosis
- Oxidoreductase activity
- Binding (G-protein, S-100A, mag.)

C - upregulated in G93A SOD1 mutant

- Actin processing
- N-glycan processing
- GABA transport
- Binding (copper, GTP)
- GTPase activity

D - downregulated in SCC and in G93A SOD1 mutant

- Actin/muscle filaments
- Intermediate filaments
- Cell (vesicles, synapses, membrane)
- Muscle
- Neuron projection
- Matrix (cell-matrix junction)
- Actin (binding)
- Integrin (binding)
- Syntaxin (binding)
- Magnesium ion (binding)
- Myosin (binding)
- Transport
- Synaptic transmission/structure
- Steroid biosynthesis

GO***

<table>
<thead>
<tr>
<th>aFDR = 1</th>
<th>1 &lt; aFDR &gt; 0.7</th>
<th>0.7 &gt; aFDR &gt; 0.5</th>
<th>0.5 &gt; aFDR &gt; 0.05</th>
<th>0.05 &gt; aFDR &gt; 0.005</th>
<th>0.005 &gt; aFDR</th>
</tr>
</thead>
</table>