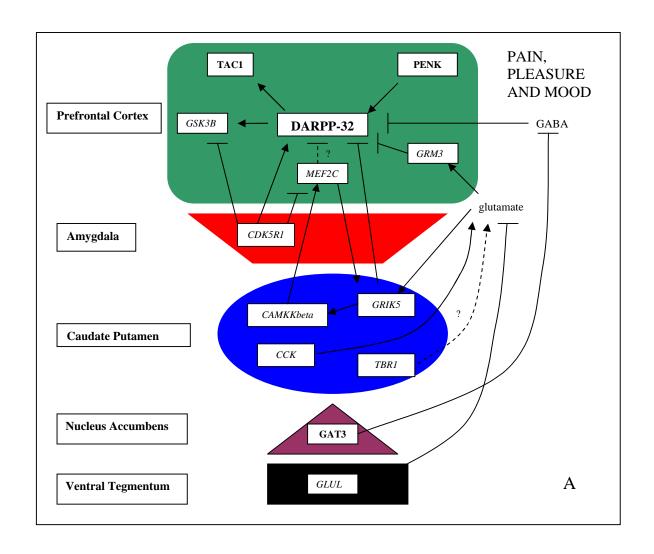Figure 5. Candidate genes, pathways and mechanisms.

(A) Top Candidate Genes and relationships to DARPP-32. All the Category I genes, all the genes with 5 out of 6 lines of evidence, and the genes with 4 out of 6 lines of evidence that have a known relationship with DARPP-32 are illustrated. Genes in plain text are increased by methamphetamine, and in genes in italics are decreased by methamphetamine.

(B) Gene Ontology (GO) analysis-derived model of biological processes and mechanisms. Numbered categories refer to GO analysis categories from Table 4.

See next page.

Environmental Input

Behavioral Output

Repsonse to Stress (5)
Response to External Stimuli (6)

Reproductive Behavior (7)
Behavioral Fear Response (8)

Cell communication (1)

Infrastructure changes
  - Cell growth and/or maintenance (2)
  - Metabolism (3)
  - Morphogenesis (4)

Brain Changes

B