**Supplement**

**Effects of haloperidol and clozapine on synapse-related gene expression in specific brain regions of male rats**

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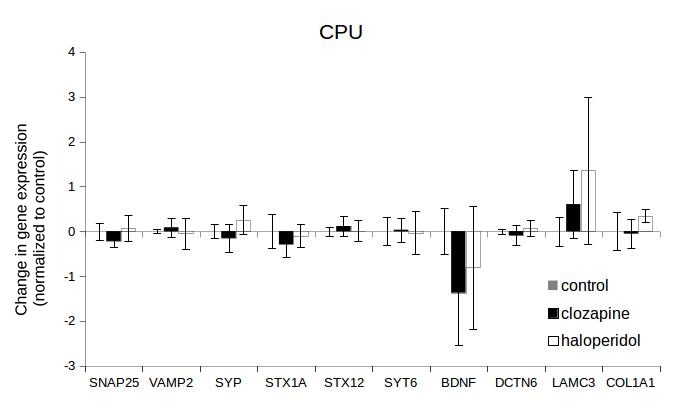
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**Figure 1**

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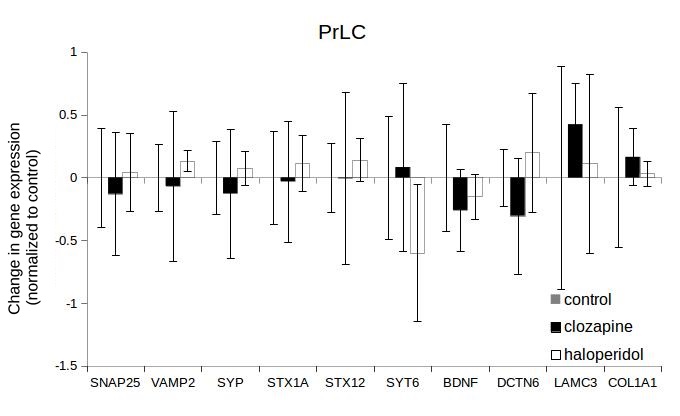
Haloperidol- versus clozapine-mediated gene regulation in the dentate gyrus (DG)

**Figure 2**

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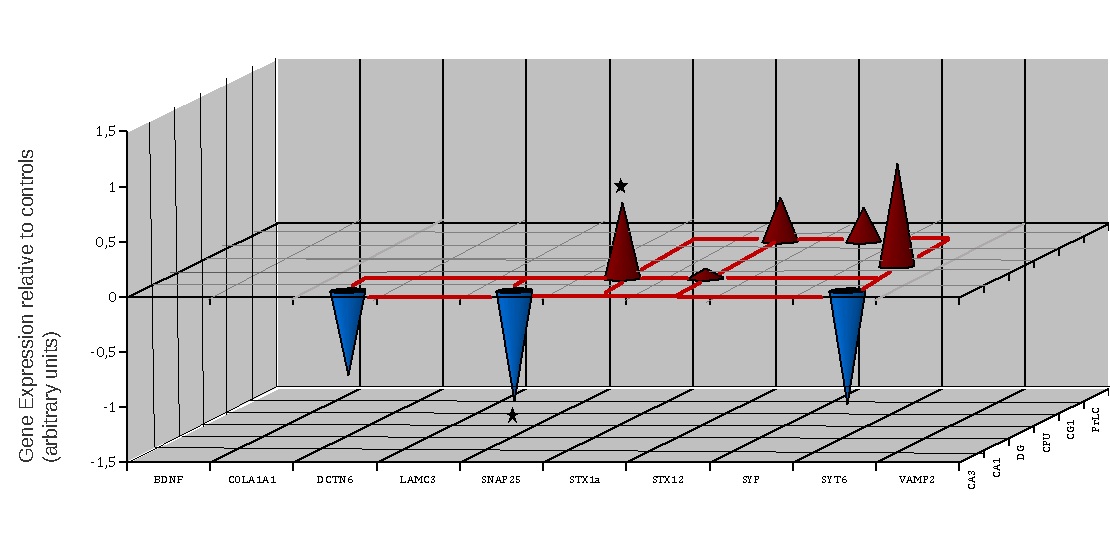
Haloperidol- versus clozapine-mediated gene regulation in caudate putamen (CPU)

**Figure 3**

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Haloperidol- versus clozapine-mediated gene regulation in the prelimbic cortex (PrLC)

**Figure 4**

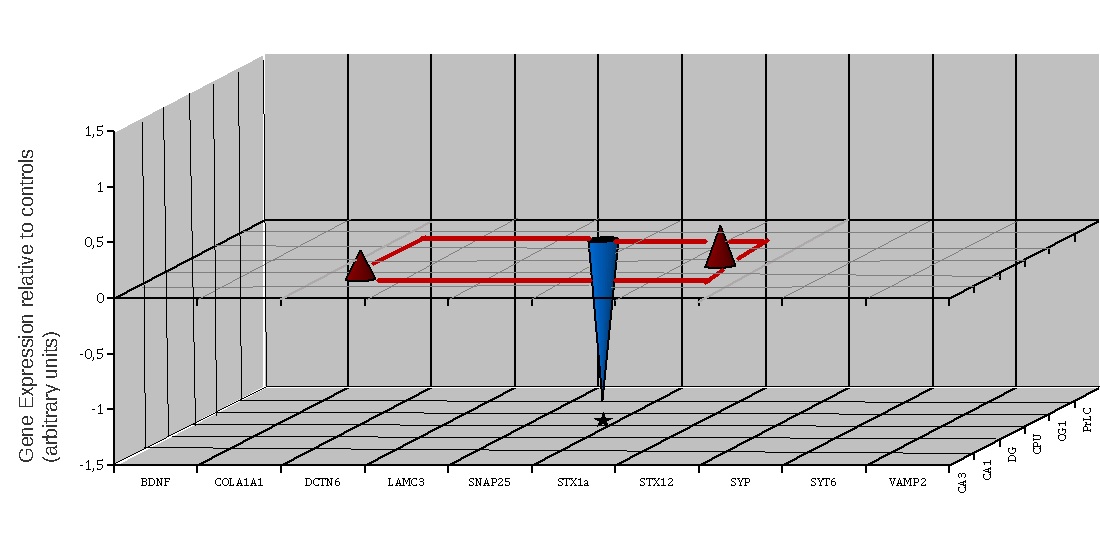
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Patterns of gene regulation by haloperidol

Genes of interest displayed on the x-axis, expression levels (arbitrary units) on the y-axis and brain regions on the z-axis. Downregulations are in blue, upregulations in red; significant regulations are labelled with asterisks. Some tentative gene (protein) interactions within and across the brain regions are displayed by dotted lines on the zero plane. \* = 0.05

Abbreviations of brain regions: CA1 = cornu ammonis 1, CA3 = cornu ammonis 3, CG1 = cingulate gyrus, CPU = caudate putamen, DG = dentate gyrus, PrLC = prelimbic cortex

**Figure 5**

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Patterns of gene regulation by clozapine

Genes of interest displayed on the x-axis, expression levels (arbitrary units) on the y-axis and brain regions on the z-axis. Downregulations are in blue, upregulations in red; significant regulations are labelled with asterisks. \* = 0.05

Abbreviations of brain regions: CA1 = cornu ammonis 1, CA3 = cornu ammonis 3, CG1 = cingulate gyrus, CPU = caudate putamen, DG = dentate gyrus, PrLC = prelimbic cortex