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Supplemental Figure 1: Representative photomicrographs of tyrosine hydroxylase (TH) immunostaining in the substantia nigra pars compacta of PND70 rats exposed to $MnCl_2$ (20 mg/kg/day, ip) during development (PND 8-12). The number of cell bodies identified in at least 4 different sections from both hemispheres at 100X magnification per animal were analysed. The graph shows the percentage relative to control mean of number of neurons in 3 animals per group. Data are expressed as mean ± SEM. Bar represents 200 µm.



Supplemental Figure 2: Phosphorylation and total content of (A) ERK1/2, (B) $p38^{MAPK}$, (C) JNK1/2/3 and (D) Akt in the striatum of PND70 rats exposed to MnCl₂ (5, 10 or 20 mg/kg/day, ip) during development (PND 8-12). Western blots were developed by chemiluminescence. Bands were quantified by densitometry and the data were normalized to the expression of total protein. ANOVA revealed no significant differences for any kinase at each of the Mn concentrations.



Supplemental Figure 3: Phosphorylated substrates of (A) PKA or (B) PKC in the striatum of PND70 rats exposed to $MnCl_2(5, 10 \text{ or } 20 \text{ mg/kg/day}, \text{ip})$ during development (PND 8-12). Western blots were developed by chemiluminescence. Bands were quantified by densitometry and the data were normalized to the expression of β -actin. ANOVA revealed no significant differences for either kinase at each of the Mn concentrations.