

**Table 1** Reliable correlation coefficients in the group of sham-operated rats

<b>Positive (direct) correlation in the group of sham-operated rats</b>			
Variable	Variable	$r_s$	p
Glucose content in the somatosensory cortex (day 7)	number of intact nuclei in the hippocampus (day 7)	$r_s = 0,99$	$p < 0,001$
Glucose content in the somatosensory cortex (day 7)	number of intact nuclei in the hippocampus (day 14)	$r_s = 0,99$	$p < 0,001$
MDA content in the somatosensory cortex (day 7)	number of intact nuclei in the hippocampus (day 7)	$r_s = 0,90$	$p < 0,05$
MDA content in the somatosensory cortex (day 7)	number of intact nuclei in the hippocampus (day 14)	$r_s = 0,90$	$p < 0,05$
SDH activity in the somatosensory cortex (day 7)	percentage ratio of cells in the G0G1 phase to all cells of the cell cycle in the somatosensory cortex (DNA content = 2s) (day 7)	$r_s = 0,90$	$p < 0,05$
SOD activity in the somatosensory cortex (day 7)	climbing episodes duration (day 7)	$r_s = 0,88$	$p < 0,05$
NOS activity in the somatosensory cortex (day 7)	percentage ratio of cells in the G0G1 phase to all cells of the cell cycle in the somatosensory cortex (DNA content = 2s) (day 7)	$r_s = 0,97$	$p < 0,01$
Glucose content <b>in the hippocampus</b> (day 7)	percentage ratio of cells in the G0G1 phase to all cells of a cell cycle in the somatosensory cortex (DNA content = 2s) (day 7)	$r_s = 0,90$	$p < 0,05$
NOS activity <b>in the hippocampus</b> (day 7)	percentage ratio of G0G1 phase cells to all cells of a cell cycle in the somatosensory cortex (DNA content = 2s) (day 7)	$r_s = 0,97$	$p < 0,01$
Glucose content in the somatosensory cortex (day 14)	integral fluorescence density of Iba+microglia on the frontal slices of CA1 hippocampal zone (day 7)	$r_s = 0,90$	$p < 0,05$
MDA content in the somatosensory cortex (day 14)	duration of ambulation episodes in peripheral squares (day 7)	$r_s = 0,93$	$p < 0,01$
NADPH oxidase activity in the somatosensory cortex (day 14)	integral fluorescence density of GFAP+astrocytes on the frontal slices of CA1 hippocampal zone (day 14)	$r_s = 0,90$	$p < 0,05$
NADPH oxidase activity in the somatosensory cortex (day 14)	percentage ratio of the G2 + M phase cells so all cells of the cell cycle in the somatosensory cortex (DNA = 4c) (day 7)	$r_s = 0,90$	$p < 0,05$
NOS activity in the somatosensory cortex (day 14)	duration of the ambulation episodes in the peripheral squares (day 7)	$r_s = 0,88$	$p < 0,01$
Protein content in the somatosensory cortex (day 14)	fluorescence density of RECA-1 positive blood vessels in the CA1 hippocampal zone (day 7)	$r_s = 0,90$	$p < 0,05$
Glucose content <b>in the hippocampus</b> (day 14)	grooming latent period (day 7)	$r_s = 0,85$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	latent period duration of rearing episodes (day 7)	$r_s = 0,77$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	number of rearing episodes (day 7)	$r_s = 0,81$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	duration of rearing episodes (day 7)	$r_s = 0,81$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	percentage ratio of the phase G2 + M to all cells of a cell cycle in the hippocampus (DNA = 4s) (day 7)	$r_s = 0,90$	$p < 0,05$
NADPH oxidase activity <b>in the hippocampus</b> (day 14)	latent period duration of climbing (day 7)	$r_s = 0,87$	$p < 0,05$
NOS activity <b>in the hippocampus</b> (day 14)	duration of ambulation episodes through the peripheral squares (day 7)	$r_s = 0,88$	$p < 0,05$
Protein content <b>in the hippocampus</b> (day 14)	integral fluorescence density of RECA-1 positive blood vessels in the CA1 hippocampal zone (day 7)	$r_s = 0,90$	$p < 0,05$
<b>Negative (or inverse) correlation in the group of sham-operated rats</b>			
Variable	Variable	$r_s$	p
Glucose content in the somatosensory cortex (day 7)	integrated fluorescence density of Iba+microglia on the frontal sections of the CA1 hippocampal zone (day 7)	$r_s = -0,90$	$p < 0,05$
Lactate content in the somatosensory cortex (day 7)	latent periods of grooming (day 7)	$r_s = -0,81$	$p < 0,05$

Lactate content in the somatosensory cortex (day 7)	latent periods of ambulation in peripheral squares (day 14)	$r_s = -0,77$	$p < 0,05$
MDA content in the somatosensory cortex (day 7)	integral fluorescence density of GFAP+astrocytes on the frontal sections of CA1 hippocampal zone (day 7)	$r_s = -0,90$	$p < 0,05$
MDA content in the somatosensory cortex (day 7)	latent period of ambulation in the peripheral squares (day 14)	$r_s = -0,79$	$p < 0,05$
SDH activity in the somatosensory cortex (day 7)	percentage ratio of the DNA synthesis phase to all cells of the cell cycle in the hippocampus (DNA content > 2s and < 4s) (day 7)	$r_s = -0,90$	$p < 0,05$
SDH activity in the somatosensory cortex (day 7)	percentage ratio of the cells in the G2 + M phase to all cells of the cell cycle in the somatosensory cortex (DNA = 4s) (day 7)	$r_s = -0,90$	$p < 0,05$
SOD activity in the somatosensory cortex (day 7)	number of intact nuclei in the somatosensory cortex (day 7)	$r_s = -0,90$	$p < 0,05$
SOD activity in the somatosensory cortex (day 7)	number of intact nuclei in the somatosensory cortex (day 14)	$r_s = -0,90$	$p < 0,05$
NOS activity in the somatosensory cortex (day 7)	percentage of cells in the G0G1 phase to all cells of a cell cycle in the hippocampus (DNA content = 2s ) (day 7)	$r_s = -0,95$	$p < 0,05$
NOS activity in the somatosensory cortex (day 7)	percentage ratio of the G2 + M phase cells to all cells of the cell cycle in the somatosensory cortex (DNA = 4s) (day 7)	$r_s = -0,97$	$p < 0,01$
Glucose content <b>in the hippocampus</b> (day 7)	percentage ratio of cells in the G2 + M phase to all cells of a cell cycle in the somatosensory cortex (DNA = 4s) (day 7)	$r_s = -0,90$	$p < 0,05$
Glucose content <b>in the hippocampus</b> (day 7)	percentage ratio of cells in the G0G1 phase to all cells of a cell cycle in the hippocampus (DNA content = 2s) (day 7)	$r_s = -0,97$	$p < 0,01$
Lactate content <b>in the hippocampus</b> (day 7)	latent period duration of the grooming (day 14)	$r_s = -0,82$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 7)	latent period duration of the ambulation (day 7)	$r_s = -0,86$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 7)	duration of ambulation episodes in the peripheral squares (day 7)	$r_s = -0,85$	$p < 0,05$
NOS activity <b>in the hippocampus</b> (day 7)	percentage of G0G1 phase cells to all cells of a cell cycle in the hippocampus (DNA content = 2s) (day 7)	$r_s = -0,95$	$p < 0,05$
NOS activity <b>in the hippocampus</b> (day 7)	percentage ratio of the G2 + M phase cells to all cells of a cell cycle in the somatosensory cortex (DNA = 4s) (day 7)	$r_s = -0,97$	$p < 0,01$
Glucose content in the somatosensory cortex (day 14)	climbing latent period (day 14)	$r_s = -0,86$	$p < 0,05$
Glucose content in the somatosensory cortex (day 14)	integral fluorescence density of NeuN+ neurons on the frontal sections of the CA1 hippocampal zone (day 14)	$r_s = -0,90$	$p < 0,05$
SDH activity in the somatosensory cortex (day 14)	number of grooming episodes (day 7)	$r_s = -0,88$	$p < 0,05$
SDH activity in the somatosensory cortex (day 14)	the percentage ratio of the DNA synthesis phase to all cells of the cell cycle ((DNA content > 2s and < 4s) in the somatosensory cortex (day 7)	$r_s = -0,90$	$p < 0,05$
NADPH oxidase activity in the somatosensory cortex (day 14)	percentage ratio of cells in the G0G1 phase to all cells of the cell cycle in the somatosensory cortex (DNA content = 2s) (day 7)	$r_s = -0,90$	$p < 0,05$
Glucose content <b>in the hippocampus</b> (day 14)	latent period duration of the ambulation in the central squares (day 7)	$r_s = -0,89$	$p < 0,05$
Glucose content <b>in the hippocampus</b> (day 14)	S phase of a cell cycle in the hippocampus (the percentage ratio of the DNA synthesis phase to all cells of a cell cycle (DNA content > 2s and < 4s) (day7)	$r_s = -0,90$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	latent period duration of the ambulation through the central squares (day 7)	$r_s = -0,81$	$p < 0,05$
Lactate content <b>in the hippocampus</b> (day 14)	duration of the ambulation episodes through the peripheral squares (day 14)	$r_s = -0,86$	$p < 0,05$

