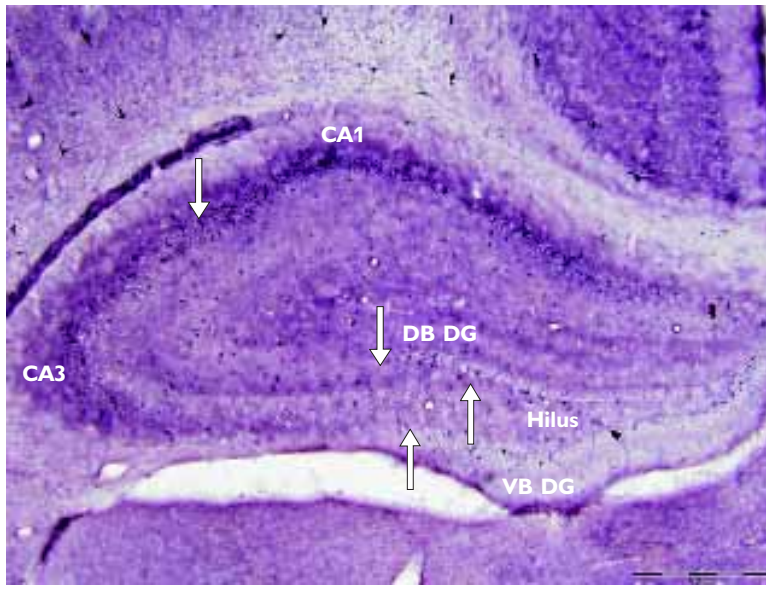

Figure 1 – Hippocampus- investigated areas of hippocampus: CA1 and CA3 areas of the hippocampus, Hilus of the dentate gyrus, DB DG – dorsal blade of the dentate gyrus, VB DG – ventral blades of the dentate gyrus. NADPH-d staining. Direct magnification 40x. The microphotograph was made using the microscope OLYMPUS AX70 Provis with digital camera OLYMPUS DP70.

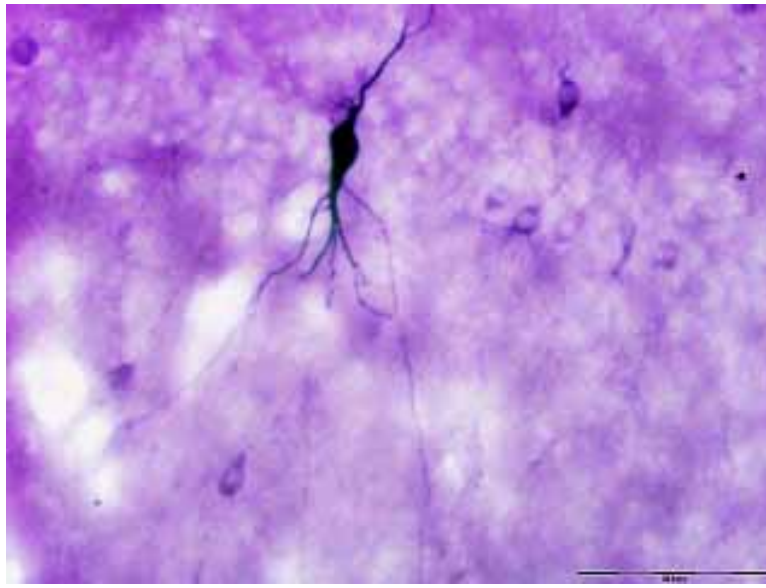

Figure 2 – NADPH-diaphorase positive cell in CA1 area of the hippocampus. Direct magnification 200x.

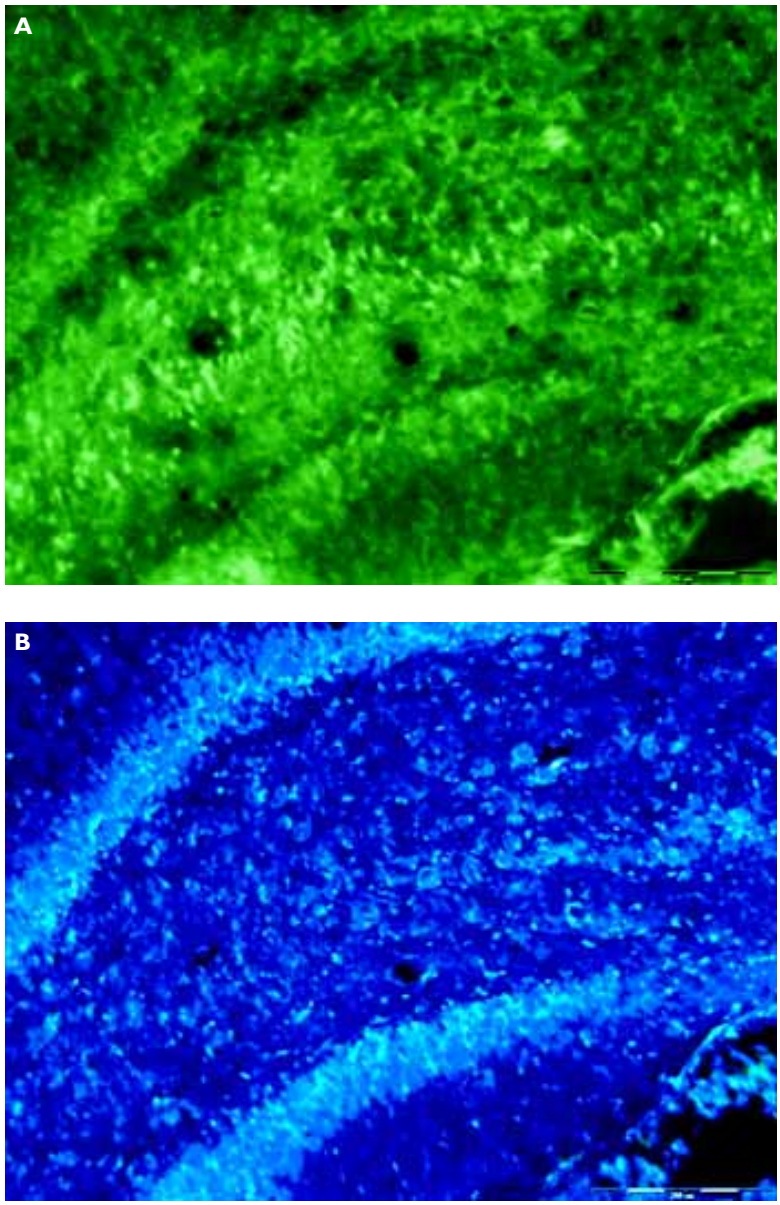

Figure 3 – A: CA3 area of the hippocampus. Fluoro-Jade B staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x. B: CA3 area of the hippocampus. Bis-benzimide, Hoechst 33342 staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x.

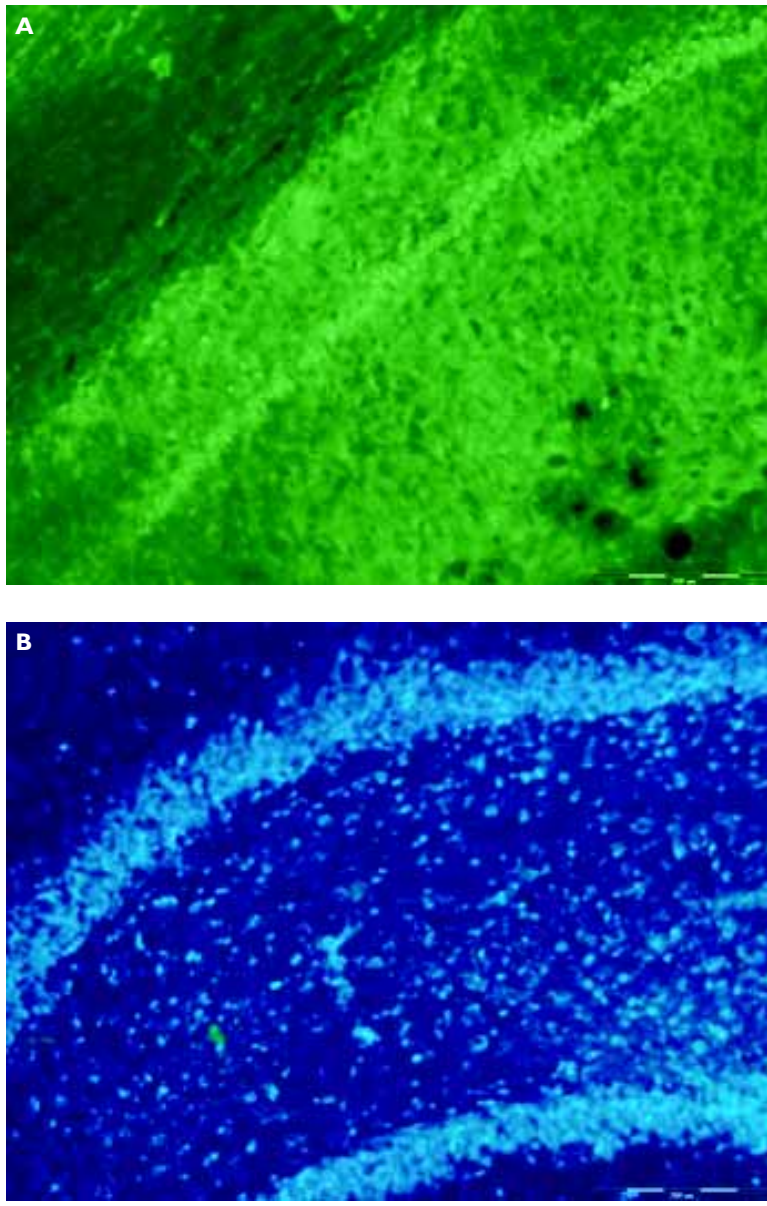

Figure 4 – A: CA1 area of the hippocampus. Fluoro-Jade B staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x. B: CA1 area of the hippocampus. Bis-benzimide, Hoechst 33342 staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x.

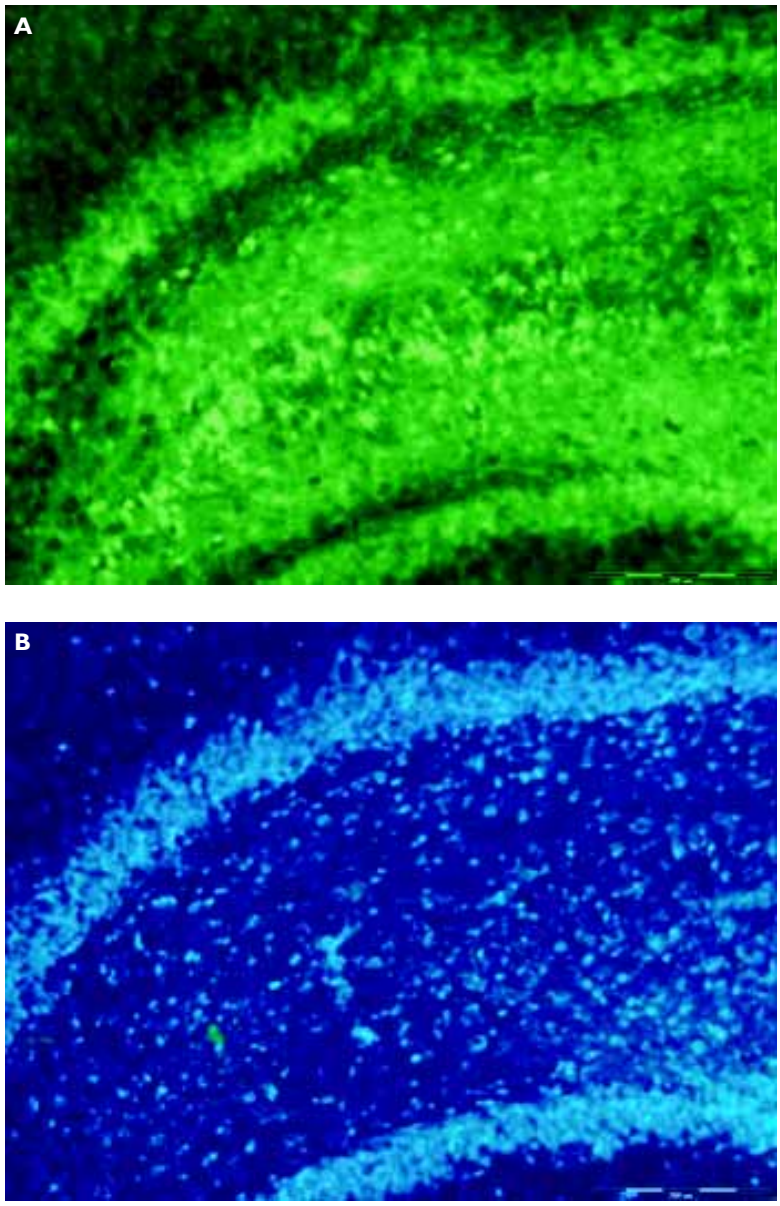

Figure 5 – A: Ventral and dorsal blades of the dentate gyrus. Fluoro-Jade B staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x. B: Ventral and dorsal blades of the dentate gyrus. Bis-benzimide, Hoechst 33342 staining. Kainic acid treated rat (10mg/kg). Direct magnification 100x.

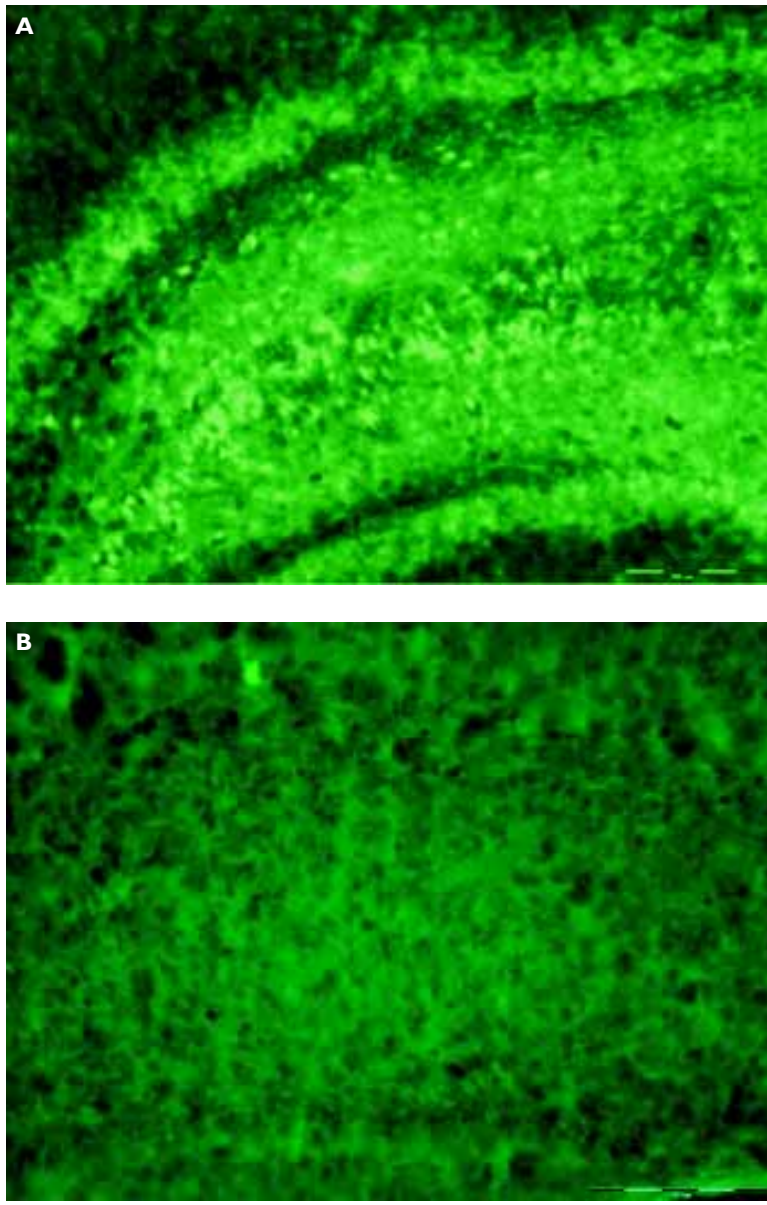

Figure 6 – A: CA1 area of the hippocampus with degenerating cells. Fluoro-Jade B staining. Homocysteic acid treated rats, perfusion one day later. B: CA1 area of the hippocampus with no degenerating cells. Fluoro-Jade B staining. Rats pre-treated with (R, S)-4-phosphonophenylglycine 15-20 minutes prior to homocysteic acid administration, perfusion one day later. Direct magnification 100x. The microphotographs were made using the microscope OLYMPUS AX70 Provis with digital camera OLYMPUS DP70.

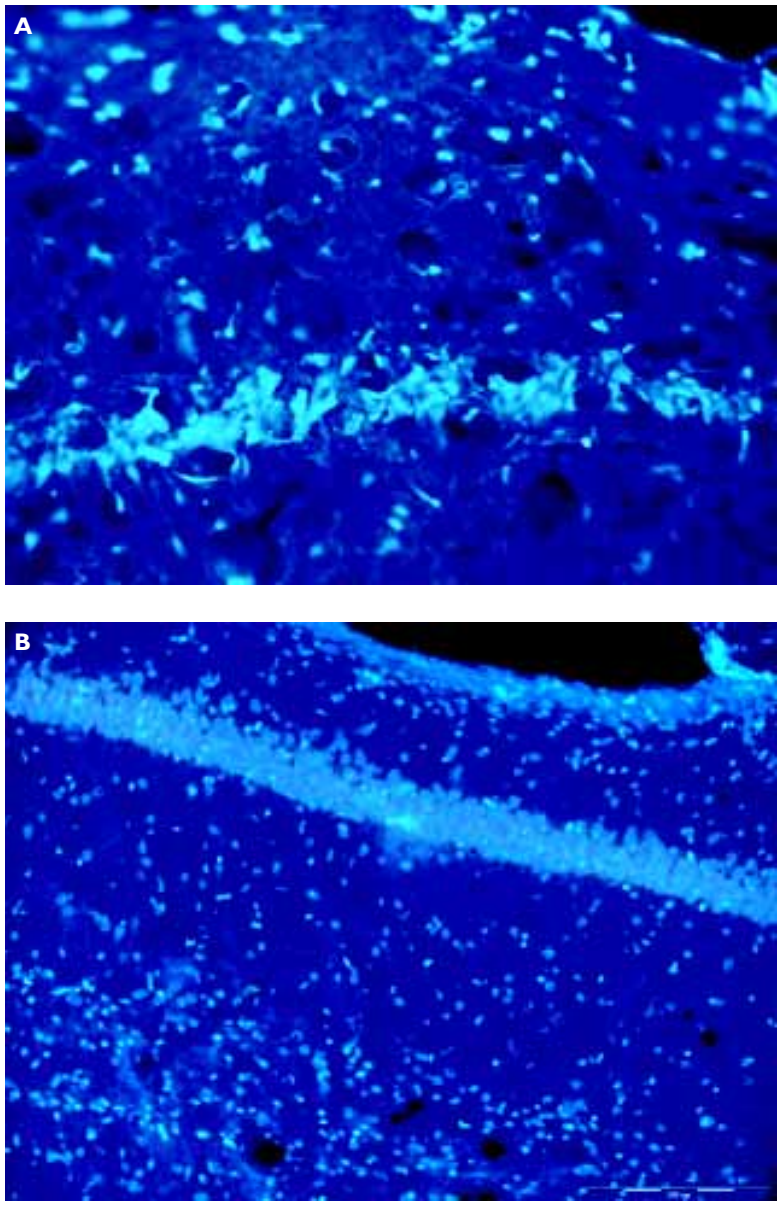

Figure 7 – A: CA1 area of the hippocampus with degenerating cells. Bis-benzimide, Hoechst 33342 staining. Homocysteic acid treated rats, perfusion one1 day later. B: CA1 area of the hippocampus with no degenerating cells. Bis-benzimide, Hoechst 33342 staining. Rats pre-treated with (R, S)-4-phosphonophenylglycine 15–20 minutes prior to homocysteic acid administration, perfusion one day later. Direct magnification 100x. The microphotographs were made using the microscope OLYMPUS AX70 Provis with digital camera OLYMPUS DP70.

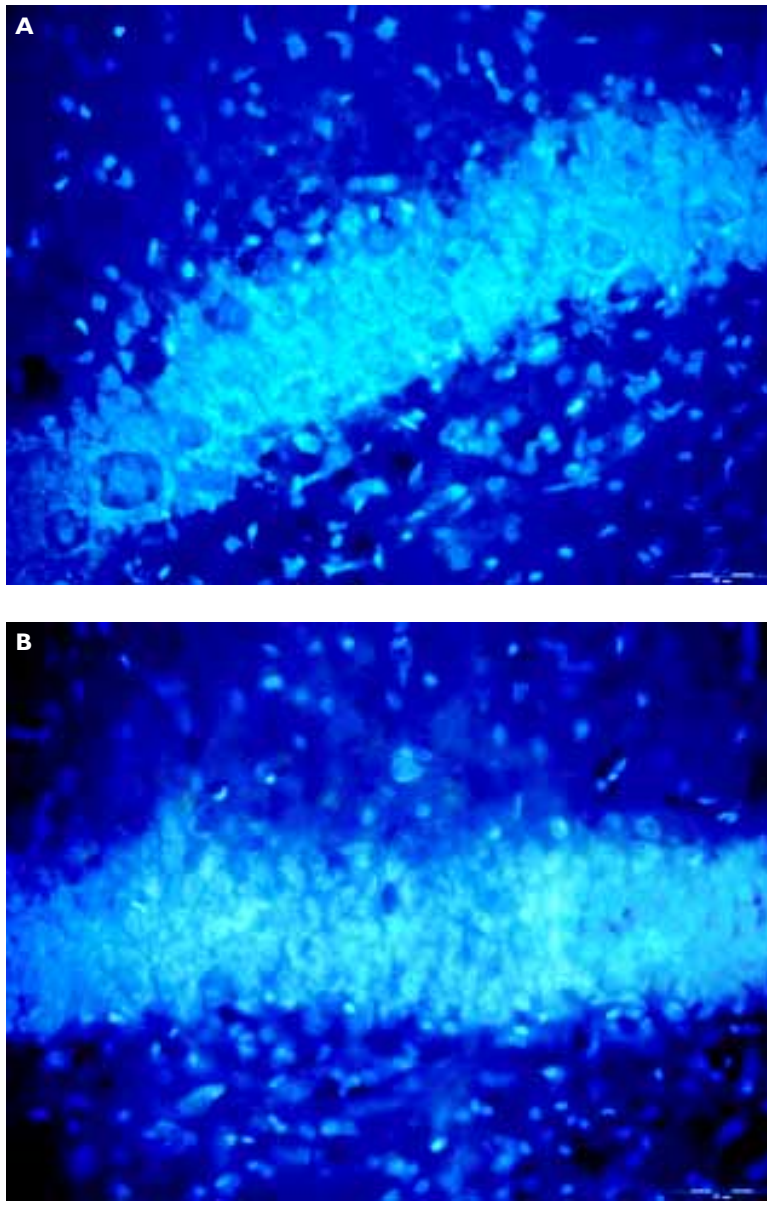

Figure 8 – A: Dorsal blade of the dentate gyrus with degenerating cells. Bis-benzimide, Hoechst 33342 staining. Homocysteic acid treated rats, perfusion one day later. B: Dorsal blade of the dentate gyrus with no degenerating cells. Bis-benzimide, Hoechst 33342 staining. Rats pre-treated with (R, S)-4-phosphonophenylglycine 15-20 minutes prior to homocysteic acid administration, perfusion one day later. Direct magnification 200x. The microphotographs were made using the microscope OLYMPUS AX70 Provis with digital camera OLYMPUS DP70.

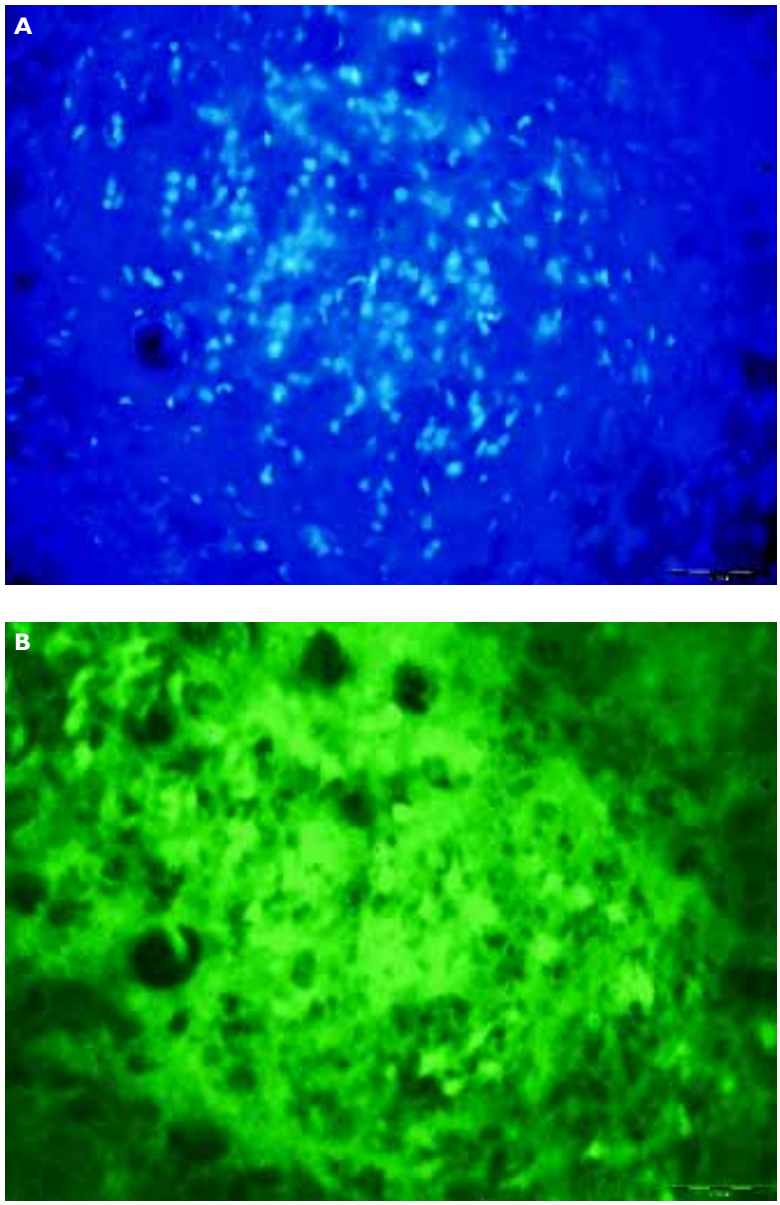

Figure 9 – A: Hilus of the dentate gyrus with gliosis. Bis-benzimide, Hoechst 33342 staining. Homocysteic acid treated rats, perfusion six days later. B: Hilus of the dentate gyrus with degenerating cells. Fluoro-Jade B staining Homocysteic acid treated rats, perfusion six days later. Direct magnification 200x.
The microphotographs were made using the microscope OLYMPUS AX70 Provis with digital camera OLYMPUS DP70.