

APPENDIX

List of Tables:

Table 1. Number of cells stained in the three areas of the brain. Grading scale: ↑↑↑ high, ↑↑ moderate, ↑ low, - absence of stained cells.

# cells stained	Hippocampus	Cerebellum	Watershed Cortex
Iba1	↑↑↑	↑↑	↑↑
GFAP	-	↑↑↑	↑↑
Hsp70	↑↑↑	↑↑↑	↑
ATF-1	↑↑↑	↑↑↑	↑↑
Casp-3	↑↑↑	↑↑	-
FloroJade B	-	-	-
Tau	-	-	-
Alum	↑↑↑	↑↑	↑

Table 2. Intensity of cell staining in the three areas of the brain. Grading scale: +++ high, ++ moderate, + low, - no staining.

Intensity of staining	Hippocampus	Cerebellum	Watershed Cortex
Iba1	+++	+++	+++
GFAP	+	++	++
Hsp70	++	+++	++
ATF-1	+++	+++	+++
Casp-3*	+ / +++	++	-
FloroJade B	-	-	-
Tau	-	-	-
Alum	++	+++	++

* a subpopulations of neurons in the hippocampus showed intense punctate staining

Table 3. Degree of microglial activation. Grading scale: +/- inactivated resting, +/++ moderately activated.

	Hippocampus	Cerebellum	Watershed Cortex
Iba1	+ / ++	+ / -	+ / -

List of Figures::

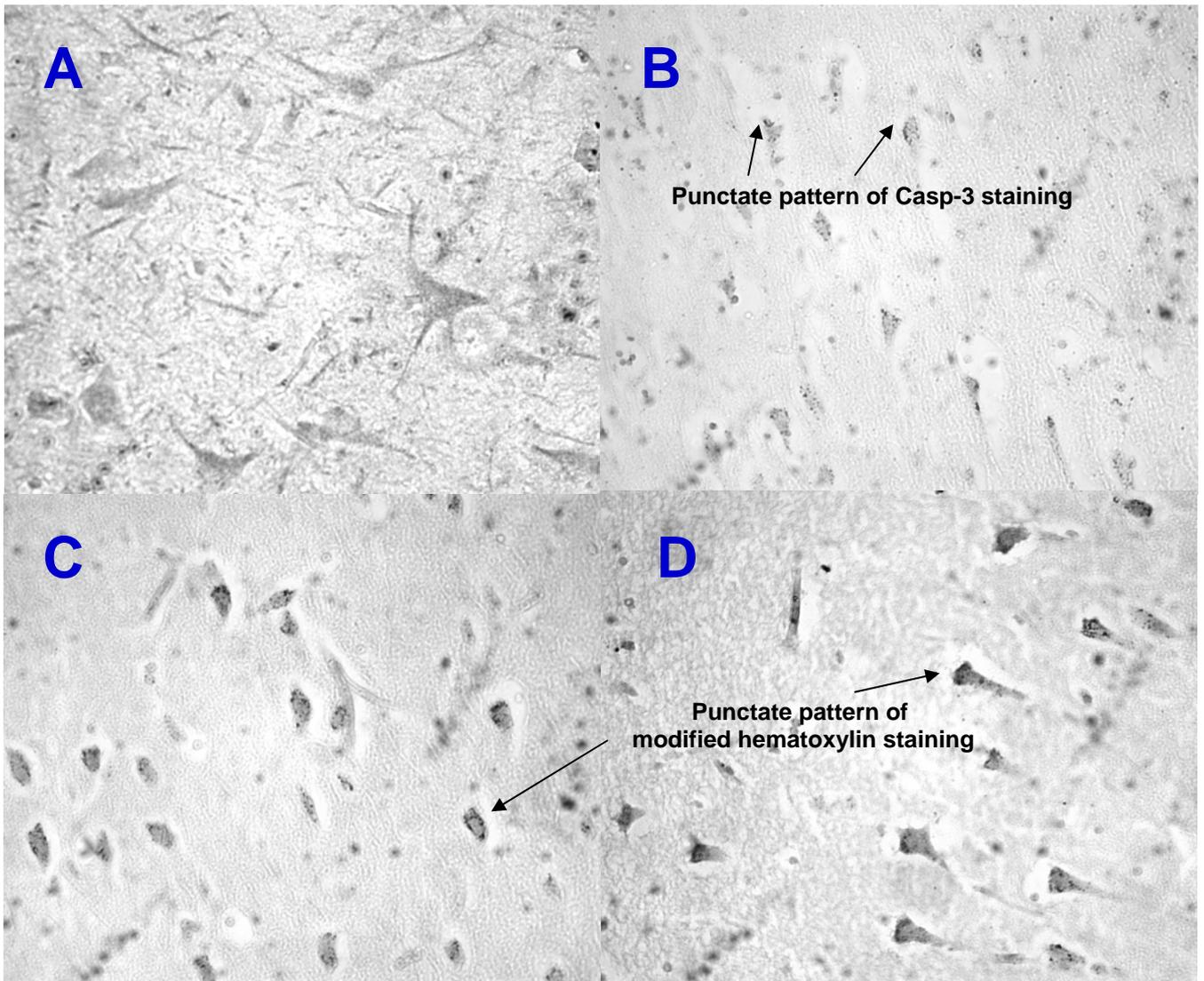


Figure 1. Hippocampus. Caspase-3 (A-B) and modified hematoxylin (C-D) staining of pyramidal neurons.

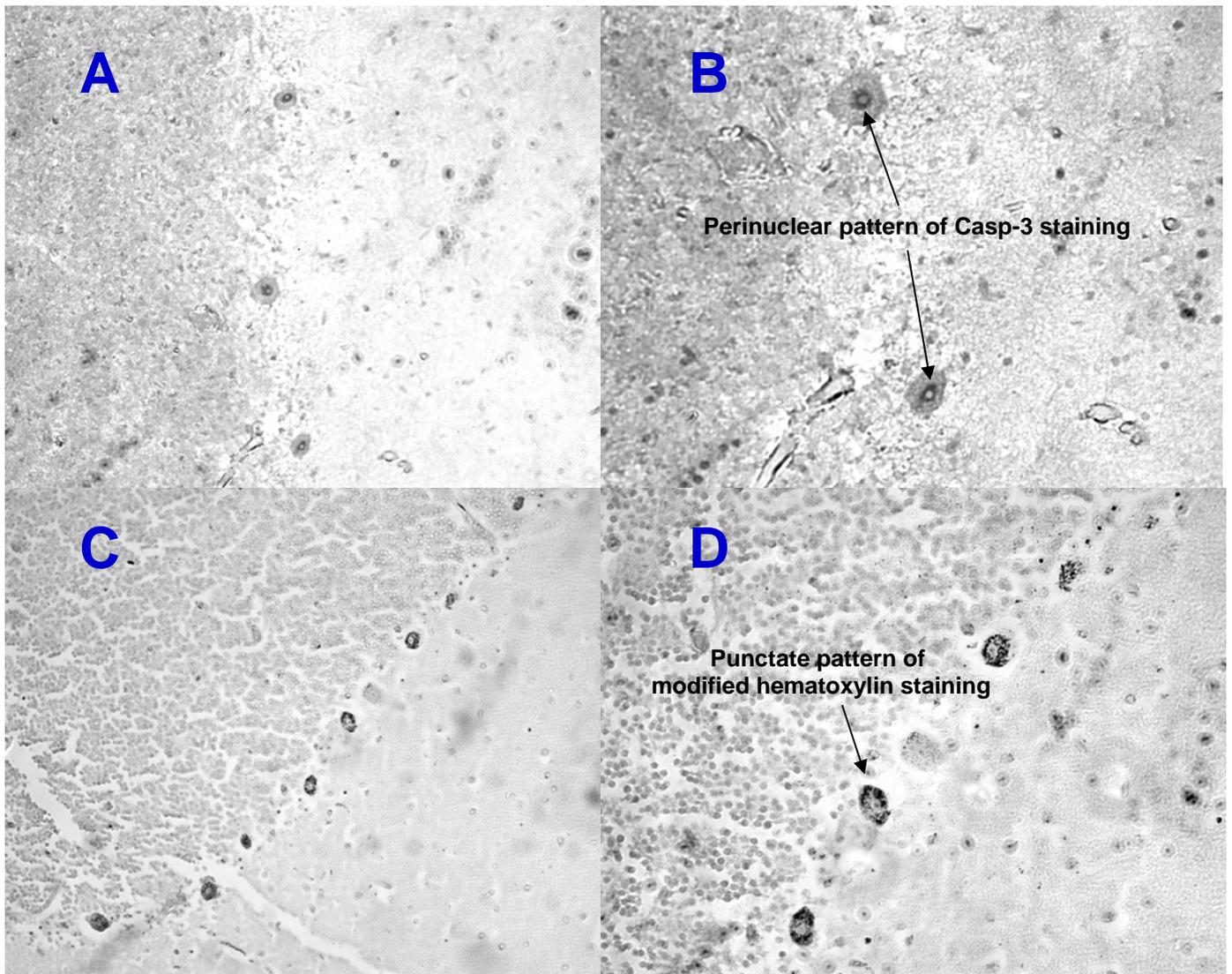


Figure 2. Cerebellum. Casp-3 (A-B) and modified hematoxylin (C-D) staining of Purkinje cells.

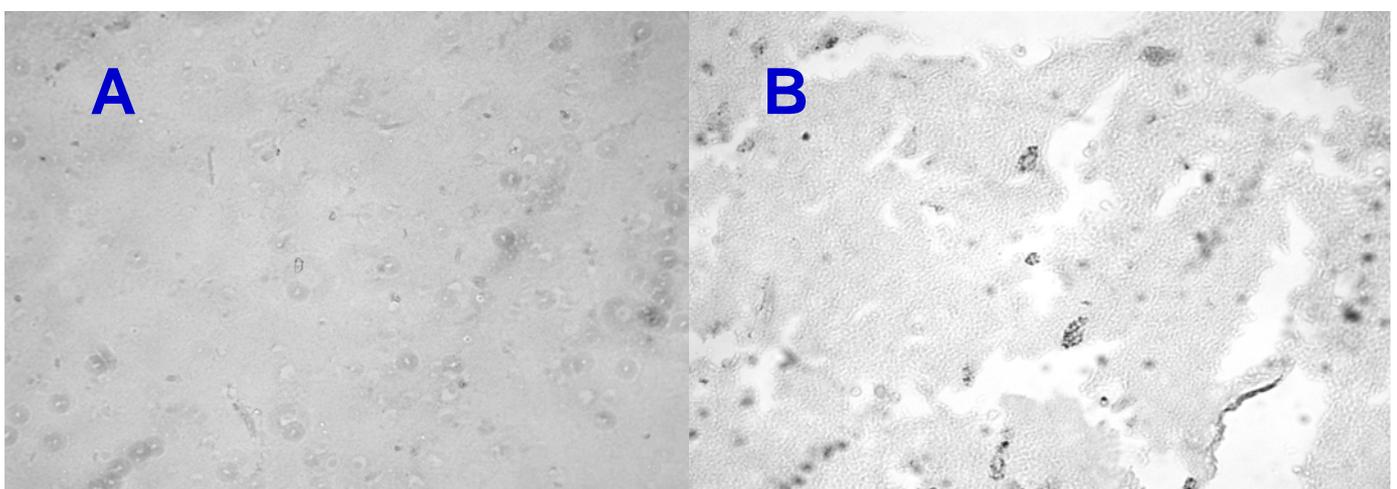


Figure 3. Watershed cortex. Casp-3 (A) modified hematoxylin (B) staining of neurons.

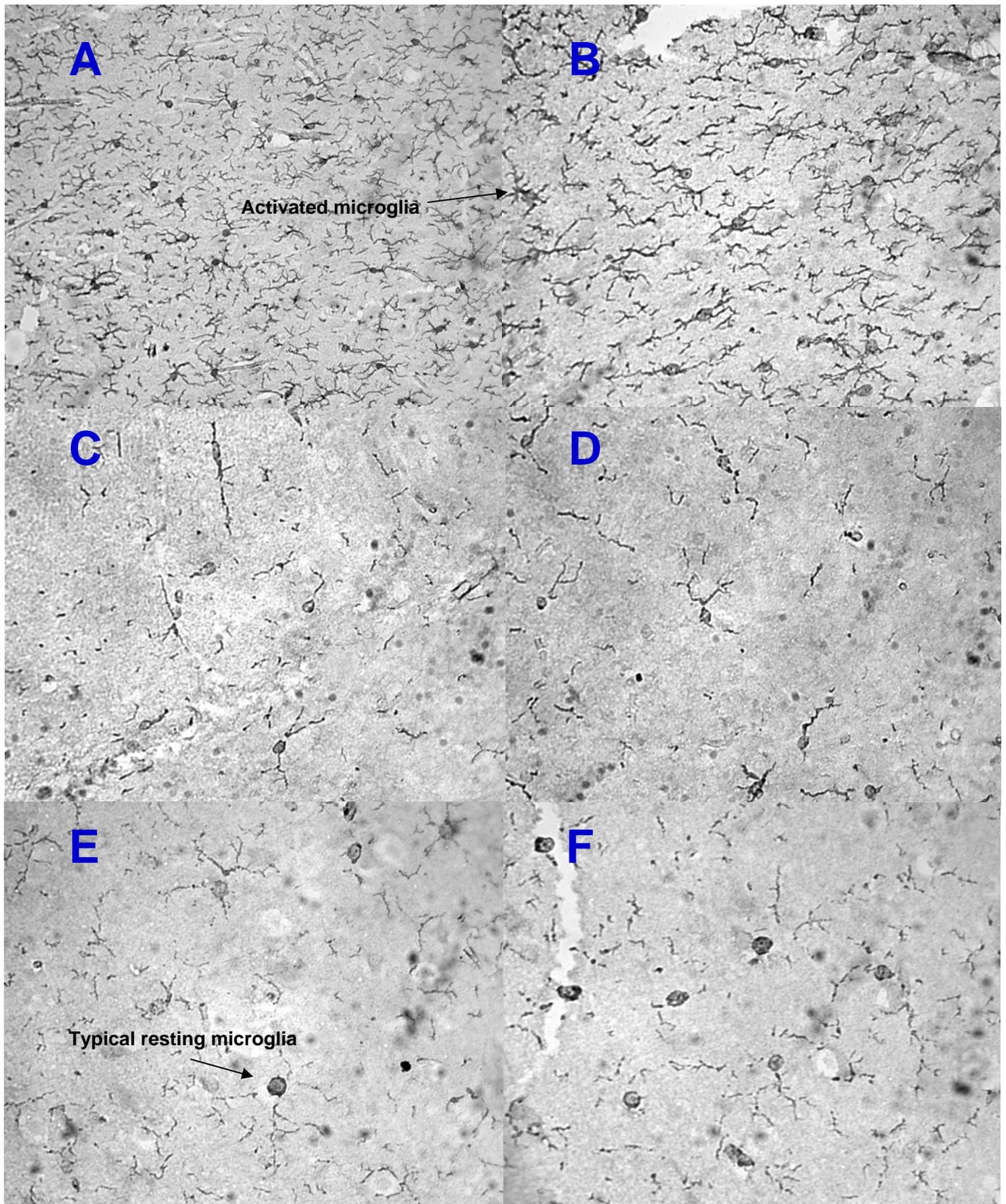


Figure 4. Iba-1 staining of microglia in the hippocampus (A-B), cerebellum (C-D) and watershed cortex (E-F). Note the round cell body in resting microglia.

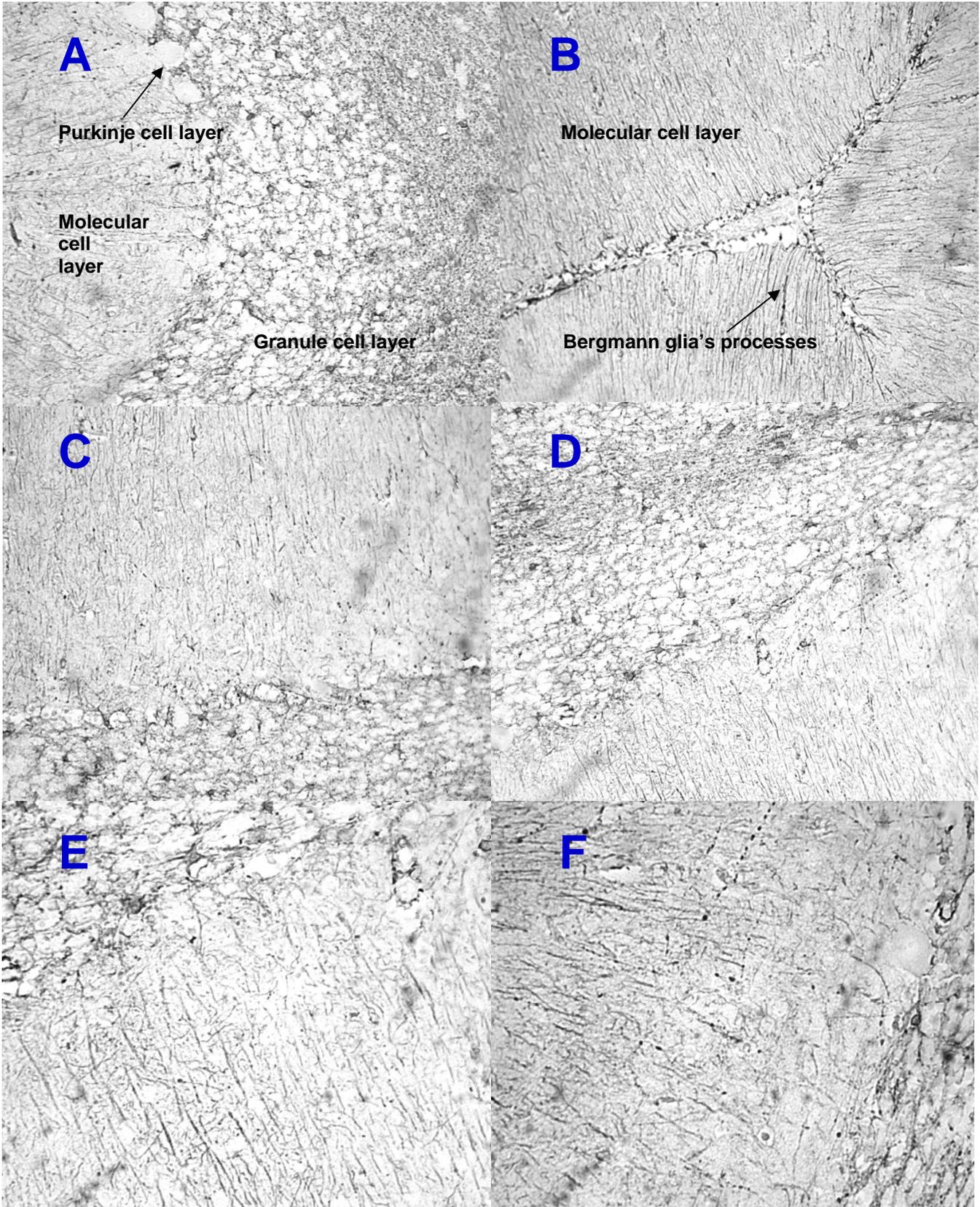


Figure 5. GFAP staining of astrocytes in the cerebellum. Note the continuous immunostaining of the processes of the characteristic cerebellar radial astrocytes (Bergmann glia), found throughout the granule and Purkinje layers, with their processes extending out through the molecular layer.

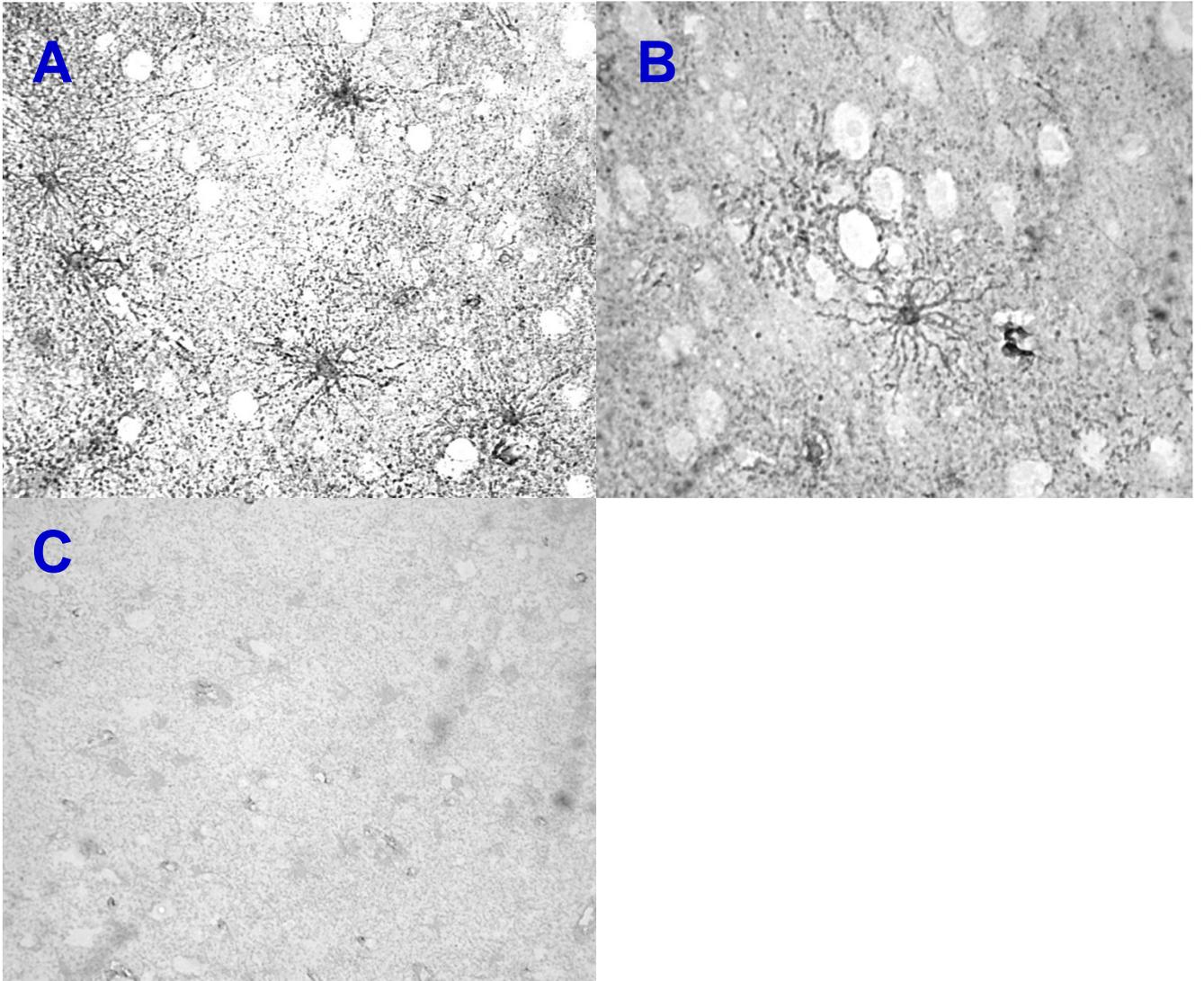


Figure 6. GFAP staining of astrocytes in the watershed cortex (A-B) and hippocampus(C).

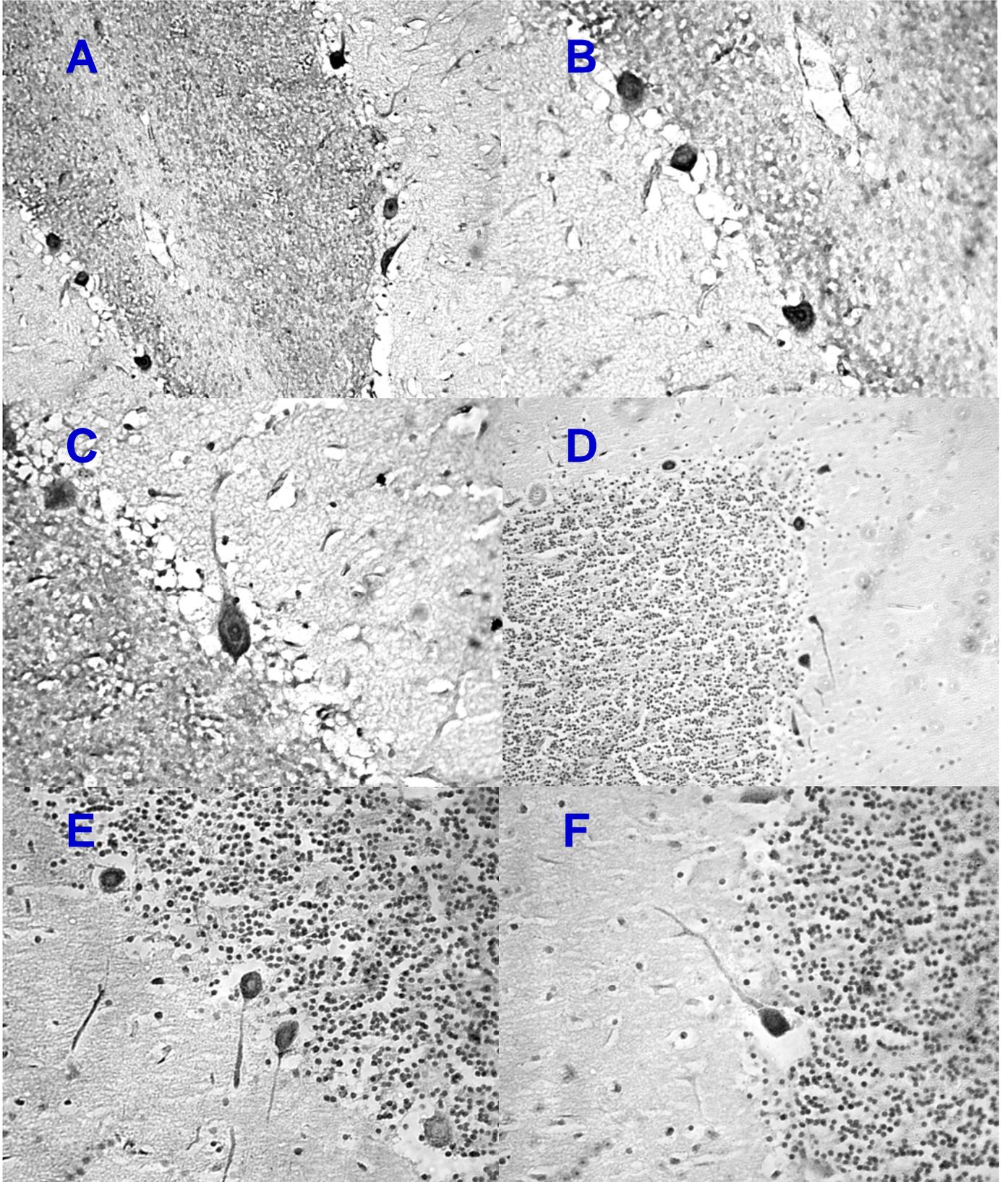


Figure 7. Cerebellum. ATF-1 (A-C) and Hsp70 (D-F) staining of Purkinje cells.

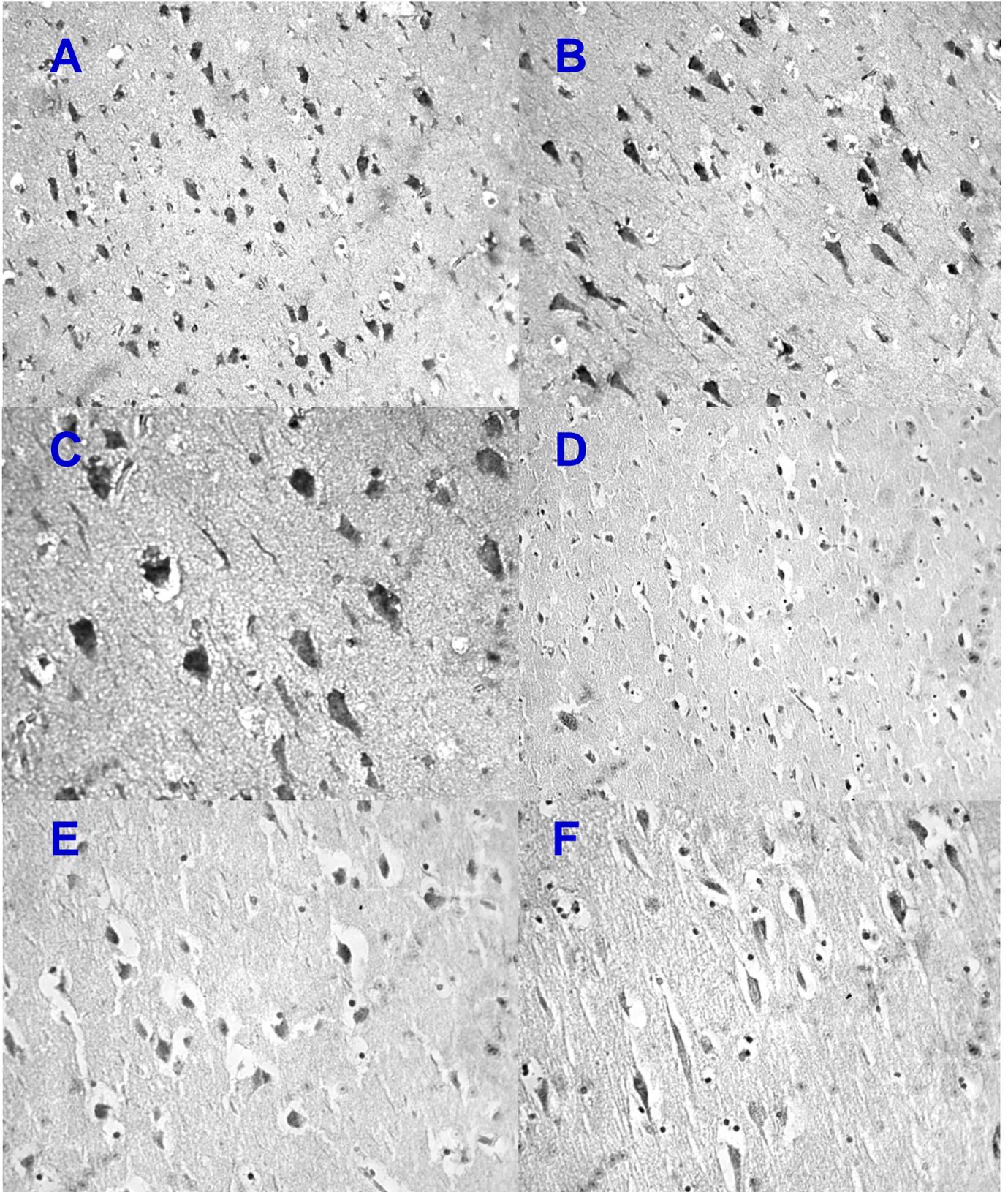


Figure 8. Hippocampus. ATF-1 (A-C) and Hsp70 (D-F) staining of pyramidal neurons.

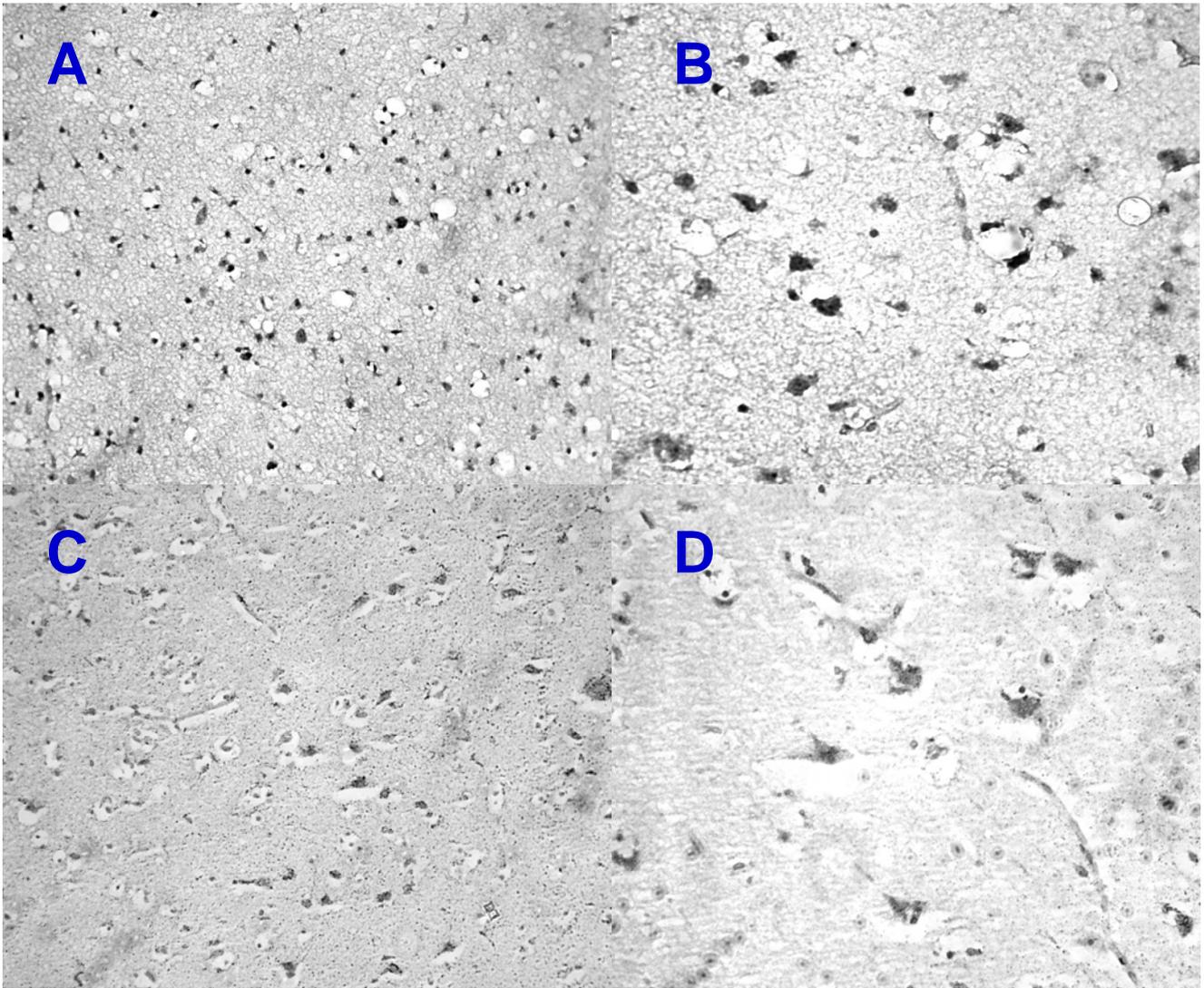


Figure 10. Watershed cortex. ATF-1 (A-B) and Hsp70 (C-D) staining of neurons.