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(????????, „The 43-kDa neuronal growth-associated protein (GAP-43) is present in plasma membranes of rat
astrocytes", Proceedings of the Academy of Natural Sciences of Philadelphia, 1988, 85; ? A. da Cunha,
„Regulation of immunoreactive GAP-43 expression in macroglia is cell type specific", *The Journal of Cell Biology*,
1990, 111), ?????? ?????? ? ?????? ?????? ?????? ? ?????? ?????? ????????????????????? (???)
????????????? ?????????? ?????????????? ?????????? (IL-1, TGF- β 1) ??? ?????????? ?????????????? ??? ?
????????????? (? A. da Cunha, „Transforming growth factor-beta 1 (TGF- β 1) expression and regulation in rat
cortical astrocytes", *Journal of Neuroimmunology*, 1992, 36), ?? ?????????? ? ?????????????? ??????????????
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????: ? H. L. Sadoff, „ In vitro production of bacitracin by proteolysis of vegetative *Bacillus licheniformis* cell
protein", *J. Bacteriol.*, 1977, 131; ???????, „Gliosis in human brain: relationship to size but not other properties of
astrocytes", *Brain Research*, 1993, 600; „Neuropathogenesis of HIV-1 infection: interactions between interleukin-
1 and transforming growth factor- β 1", *Molecular Psychiatry*, 1997, 2; ???????, „Cytokine signals propagate
through the brain", *Molecular Psychiatry*, 2000, 5.

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*????? ?? ????????? ? ?????? II ??? ? ?????? ????????????????? (2013)