

????????, ?????, ????????? (??????, 26. XI 1947). ?????? ?????? ?????? ?? ???????
????????????? ?????? (??), ? ?????????? (?????? ??????) ? ????????? ?????? (?????????) ??
????????? ?????????????? ?????? (??). ?????????????? ?????????????? ?????? ?? ?? ??????????????
????????????? ? ?????? (??) ?? ?????????????? ????. ?????? ??????, ?????? ??? ? ?????????
????????????? ?????????? ?? ?????? ?????? ?????????????? ? ?????????? (????????), ??????????
????????????? ?????, ?????? ? ?????? ? ?????????? ?????????? ?? ?????????? ??????????,
????????????? ?????????? ?? ?????????? ? ?????????? ?????????? ? ?????????????? ?????????? ?? ?????????? ??????,
????????? ?????????? ?? ?????????? ? ?????????????? ?????????? ?? ?????? ? ?????? ??? (?? ? ??????,
??) ? ?????????? ?????????? ?????????? ?????? ? ?????? ?? ?????????????? ? ?????????????????
????????????? ?????????? ?? ?????? ? ?????????? ?????????????? (INSERM) ? ?????? (?????????). ?????
????????????? ??? ??? ?? ?????????????? ? ?????????????? ?????????????????? ?????? ????? – ?? ?????
????????? ?? ?? ?????????????? (GAP43) ?????????? ?? ??? ? ?????????? ??? ? ? ?????????? ?????????
(????????, „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), ?? ?????????? ?? ?????????????? ??????????????
????????? ??? ??? ?????? ?????? ?????????, ??? ? ?????????????? ?????????? ?????????? ?????????
????? ? ?????? ?????????? ?????????? ?? ?????????? ?????? ? ??????????. ? ?? ?????? ??? ??????????
????????? ? ?????????????? ?????????, ??? ?? ?????? ?????? ? ?????? ? ??? ?????????? ?????????
????????? ?????????.

????: ? 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.

?????? ?. ???????

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