

????????, ?????, ????????? (?????, 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), ?? ?????????? ?? ?????????????????? ?????????????? ?????????? ??? ???? ?????? ?????? ?????? ??????, ??? ? ?????????????? ?????????? ?????????? ?????? ? ?????? ?????? ?????????? ?? ?????????? ?????? ? ??????????. ? ?? ?????? ??? ?????????? ?????????? ? ?????????????? ?????????, ??? ?? ?????? ?????? ? ?????? ? ??? ?????????? ?????????? ?????????? ??????????

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