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[1]陈太邦,赵建华,王永飞,等.体外树突状细胞通过NT-3上调P-ERK1/2的表达促进神经干/祖细胞分化[J].第三军医大学学报,2012,34(23):2368-2372.

Chen Taibang, Zhao Jianhua, Wang Yongfei, et al. Dendritic cells promote neural stem/progenitor cells differentiation through NT-3 up-regulating p-ERK1/2 in vitro[J]. J Third Mil Med Univ, 2012, 34(23): 2368-2372.

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	神经营养素-3 (Neurotrophin-3, NT-3) 在DCs调控NSPCs分化中可能的作用机制。 方法 实验共设5组,分别为 NSPCs组、NSPCs/DCs组、NSPCs+NT-3组、NSPCs/DCs+抗NT-3组和DCs组。共培养24、48、72 h后,ELISA法检测各组上清液 中NT-3含量;7 d后荧光免疫细胞化学法检测各组NSPCs分化情况。Western blot检测各组NSPCs磷酸化的细胞外调节蛋白激 酶 (extracellular regulated protein kinases,ERK1/2)表达。 结果 NSPCs/DCs组上清液中NT-3含量较NSPCs组、 NSPCs/DCs+抗NT-3组和DCs显著升高(P<0.05)。NSPCs/DCs组和NSPCs+NT-3组B-tubulin-Ⅲ阳性细胞数较NSPCs组和 NSPCs/DCs+抗NT-3组显著增高(P<0.05),而NSPCs组和NSPCs/DCs+抗NT-3组GFAP阳性细胞较NSPCs/DCs组和NSPCs+NT-3 组显著增高(P<0.05)。NSPCs/DCs组和NSPCs+hT-3组NSPCs中的p-ERK1/2的表达较其余两组增高(P<0.05)。 结 NSPCs与DCs共培养能显著促进NSPCs分化为神经元,可能与共培养后NT-3表达量增高,通过其特异性受体TrkC激活 下游信号通路MEK-ERK有关。	
Abstract:	Objective To observe the effect of dendritic cells (DCs) on neural stem/progenitor cells (NSPCs) differentiation <i>in vitro</i> , and to explore the possible mechanism of neurotrophin-3 (NT-3) in NSPCs differentiation regulated by DCs. Methods Primary NSPCs and DCs generated from SD rats were separately cultured and then co-cultured by using transwell chambers, respectively. There are five experimental groups including a NSPCs group, a DCs group, a NSPCs/DCs group, a NSPCs+NT-3 group and a NSPCs/DCs+anti-NT-3 group. After 7 d, fluorescence immunocytochemistry was used to detect NSPCs differentiation, and Western blot assay was used to detect the expression of phosphorylated extracellular signal-regulated protein kinases (p-ERK1/2) of NSPCs. Results The ELISA results showed that the NT-3 content in the cell supernatant of the NSPCs/DCs group was significantly increased compared with the NSPCs group, DCs group and NSPCs/DCs+anti-NT-3 group ( <i>P</i> <0.05). Seven days after induction of differentiation, the proportions of B-tubulin-III-positive cells in the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs group and NSPCs/DCs+anti-NT-3 group ( <i>P</i> <0.05), while the proportions of glial fibrillary acidic protein (GFAP)-positive cells in the NSPCs/DCs group and NSPCs+NT-3 group were significantly lower than those of the NSPCs/DCs group and NSPCs/DCs+anti-NT-3 group ( <i>P</i> <0.05). The Western blotting results showed that the levels of p-ERK1/2 in the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs group and NSPCs+NT-3 group were significantly higher than those of the NSPCs/DCs+anti-NT-3 group ( <i>P</i> <0.05). Conclusion Co-culture of DCs an	

to its specific receptor TrkC in co-culture system.

备注/Memo: -