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Subject: Brain-derived nerve factor & neurotrophins in androgenetic alopecia

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Brain-derived nerve factor and neurotrophins in androgenetic alopecia.

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Source

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Abstract

hair cycling as well as in androgenetic alopecia (AGA). However, the molecular cascades in AGA

We sought to determine the difference in the protein expression of growth factors/cytokines in balding vs. nonbalding scalp specimens from the same individuals affected with AGA.

baldness. Dermal papilla (DP) cells were isolated and cultured. Quantifying the protein expressions of growth factors and cytokines expressed by these cells was performed using

protein expression was upregulated by approximately 12-fold in supernatants obtained from balding as compared to nonbalding DP cells ( $P < 0.001$ ). Expressions of neurotrophin-3 and

insulin-like growth factor (IGF)-1 and its binding proteins as well as those of the vascular endothelial growth factor (VEGF) family were significantly downregulated in the balding scalp.

of androgens on hair follicles, serving as a negative regulatory control signal. Further studies may lead to novel pharmacologic interventions in AGA.

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