

SPRING DERMATOLOGY & SKIN CARE EXPO CONFERENCE

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Gail K Naughton

Histogen Inc., USA

Naturally secreted growth factors for aesthetics: Stimulating skin and hair follicle stem cells

Involvement in regulating many cellular processes, growth factors signal proliferation and differentiation in cells throughout the body. Growth factors such as VEGF and KGF have long been known to play an important role in tissue regeneration. The study of these cell-signaling processes has led to the development of life-saving therapies and, more recently, the role of growth factors in the aging process has been evaluated. Histogen has developed a novel composition containing naturally-secreted multipotent growth factors and soluble matrix proteins which have been shown to stimulate both mature cells and stem cells in the skin. The ability of this growth factor composition, applied topically to facial skin, to aid in the reversal of photodamage and other signs of aging has been examined in multiple clinical studies. One study of a formulation containing a high concentration of growth factors resulted in statistically significant ($p < 0.02$) improvement in the appearance of skin brightness, firmness, and radiance at day 14. Significant improvement in fine lines, pigmentation, evenness and photodamage was seen at day 90.1 histogens unique manufacturing process also results in upregulation of growth factors, such as follistatin, which have been shown to be important in hair viability and hair follicle stem cell proliferation. A purified form of the multipotent growth factor composition

has been developed as an injectable for hair growth. Three clinical trials of a hair stimulating complex (hsc) predecessor have been completed, showing statistically and cosmetically significant efficacy and excellent safety profile. Clinical data to date supports the superiority of hsc against current treatments, with hair growth appearing to remain two years after treatment, temporal recession restoration, and effectiveness in men over 40 and in female patients. Naturally-secreted growth factors represent an important new category in aesthetics, and have been shown across clinical studies to stimulate skin and hair follicle stem cells with anti-aging benefits.

Speaker Biography

Gail k Naughton has been in tissue engineering research for 30 years, holds over 105 patents, and founded two regenerative medicine companies. Her current venture, histogen, is focused on novel products from hypoxia-induced stem cells. She is the company's CSO, CBDO and invented its core technology. She was the Founder/Co-Inventor at advanced tissue sciences, where she oversaw the design and development of the world's first up-scaled manufacturing facility for tissue engineered products, established major corporate development partnerships, and brought four products from concept through market launch. At histogen, she developed a new skin care product, regenica, which was recently acquired by allergan. She has been extensively published and a frequent speaker in the field of tissue engineering. In 2000, she received the 27th annual national inventor of the year award by the intellectual property owners association in honor of her pioneering work in regenerative medicine.

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Notes:



Baseline

18 Weeks