

ACRS®

Autologous Cytokine-Rich Serum



Hair loss

Medical journals have confirmed that hair loss in modern human is not self-healing. It is a progressive, chronic and highly recurrent disease. In addition, hair loss is also induced by contaminants from business entertainment, unbalanced diet, air pollution and environmental hormones. These contaminants increase inflammatory substances in the blood, resulting in symptoms of hair loss. In recent years, pre-mature hair loss has become a growing trend.

Medical research indicates that the inflammatory substances IL-1 α and IL-1 β in the blood increase the susceptibility of the male hormone DHT (Dihydrotestosterone). When DHT binds to the androgen receptor, they cause extensive apoptosis of dermal papilla cells, resulting in hair root shrinkage and eventual breakage.

The main options for hair loss treatment are medication and hair transplant. However, as neither option possesses the key technology for "inflammation" alleviation, the results of the treatments are relatively limited and produces negative side effects.

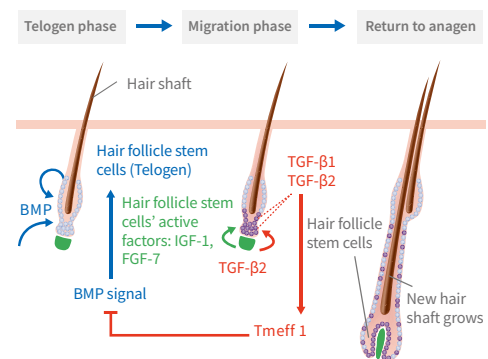
ACRS®-HPR Therapy

Environmental pollution and immune system imbalance are the main causes of irreversible growth of DHT.

HPR Therapy is a treatment that balances the immune system of hair follicle tissue. Using German ACRS technology, it increases autologous IL-1Ra concentration to block IL-1 α and IL-1 β expression, thereby reducing inflammation of follicle dermal papilla cells and the stress of DHT proliferation, regenerate a healthy hair follicle environment.

Follicle regeneration

Awake hair follicles' telogen phase



Introduction to HPR Therapy

- Inflammation immunotherapy from Germany
- Autologous cytokines, safe with no side effects
- IL-1Ra proliferation technology: ACRS

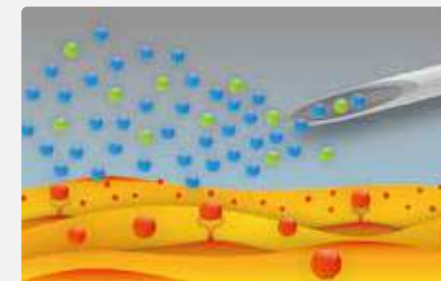
ACRS – The HPR biologically active principle

Our body controls inflammatory processes via special messengers (cytokines). These messengers dock onto corresponding points of dermal papilla cells in the hair follicle and transmit their message: “trigger inflammation” or “stop inflammation.”

In case of hair loss, the balance of anti-inflammatory and pro-inflammatory messengers is disrupted in the hair dermal papilla cells.



Due to an imbalance of the body's cytokines, the Inflammatory macrophages will release mature **Interleukin-1 (IL-1 α and IL-1 β)** and causes apoptosis of dermal papilla cells, inflammation and follicular atrophy.



The natural antagonist of **interleukin-1** is the **interleukin-1 receptor antagonist (IL-1Ra)** which is called “inflammatory cytokine-inhibiting protein”.



The ACRS contains increased concentrations of the **natural antagonist (IL-1Ra)** as well as important **growth factors** from the patient's own blood.

The **IL-1Ra** occupies IL-1 cytokine receptor on hair follicle and dermal papilla cells so that the **damaging inflammatory cytokine IL-1** is prevented access to these cell areas.

The **natural antagonist (IL-1Ra)** has a pronounced anti-inflammatory effect and supports – jointly with the **growth factors** – the regeneration of damaged dermal papilla and stimulate the hair regrowth.

Balance is restored – the inflammation subsides.

● Interleukin-1 (IL-1 α and IL-1 β) ● Interleukin-1 receptor antagonist (IL-1Ra) ● Growth factors

Indications for HPR Therapy

Hair loss prevention

- Male-pattern baldness
- Telogen effluvium
- Menopause hair loss
- After parturition hair loss
- Hair transplant inflammation

Scalp keratin /oil control

- Excessive keratin production of the scalp
- Hair follicle damage due to dyeing and long-term use of hair care products
- Excessive oil and dandruff
- Limp and thin hair

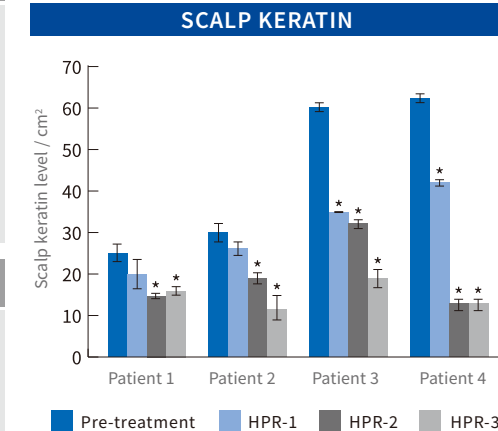
Scalp Immunomodulatory

- Seborrhoeic dermatitis of the scalp
- Itchy scalp
- Scalp redness

HPR Therapy benefits

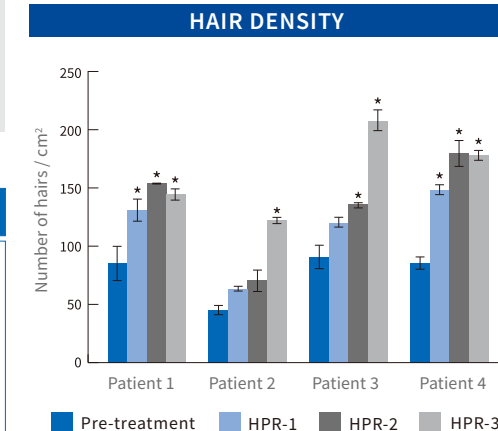
- Stimulate hair growth
- Prevent hair loss
- Prevent scalp inflammation
- Scalp oil control
- Decrease keratin production
- Increase hair volume
- Thicken hair roots
- Regenerate a new hair follicle environment.

HPR clinical test data



Improve expression of scalp keratin

Data represent mean \pm SE.
*P < 0.05, significantly different from the post-treatment values.

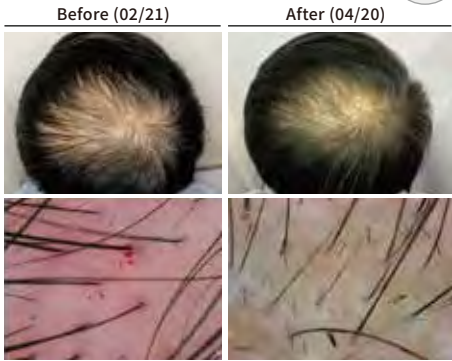


Increase hair density

Data represent mean \pm SE.
*P < 0.05, significantly different from the post-treatment values.

HPR Therapy clinical case

Case 1 Number of treatments: 3 times
male-pattern baldness (Age 31)



Before
Long-term irregular living and business entertainment has led to scalp inflammation as well as extensive hair loss and sensitive scalp symptoms.

After
HPR immediately reduces the inflammation of sensitive scalp and stimulates hair follicle regeneration.

Decrease keratin production, Scalp oil control

Case 3 Number of treatments: 2 times
Seborrhoeic dermatitis of the scalp

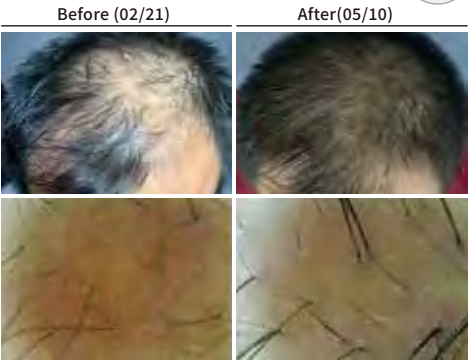


Before
An increase of inflammatory factor expression damaged hair follicle tissue, exacerbating scalp inflammation, and keratosis pilaris.

After
HPR can deeply condition the sensitivity of inflamed scalp and restore healthy scalp function.

Prevent scalp inflammation, Scalp oil control

Case 2 Number of treatments: 4 times
Male-pattern baldness (Age 45)

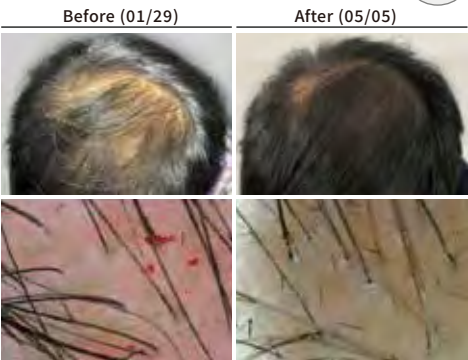


Before
Inflammatory factors induce an increase of DHT levels, which results in the thinning of hair roots and the death of hair follicle stem cells.

After
HPR inhibits the expression of inflammatory factors, strengthens hair roots and regenerates hair follicle stem cell functions.

Stimulate hair growth, Increase hair volume

Case 4 Number of treatments: 4 times
Telogen effluvium



Before
High-pressure working causes a high level of the inflammatory factors accumulation in the scalp, which led to hair follicle inflammation as well as hair loss symptom.

After
HPR improve the scalp inflammation symptom by inhibits the secretion of inflammatory factors and restored the hair follicle cell environment.

Regenerate a new hair follicle environment.

Sanakin®



Doctor's stamp

ACRS®

If you have any questions about ACRS treatment, please kindly contact us, visit our website or simply write us an Email.

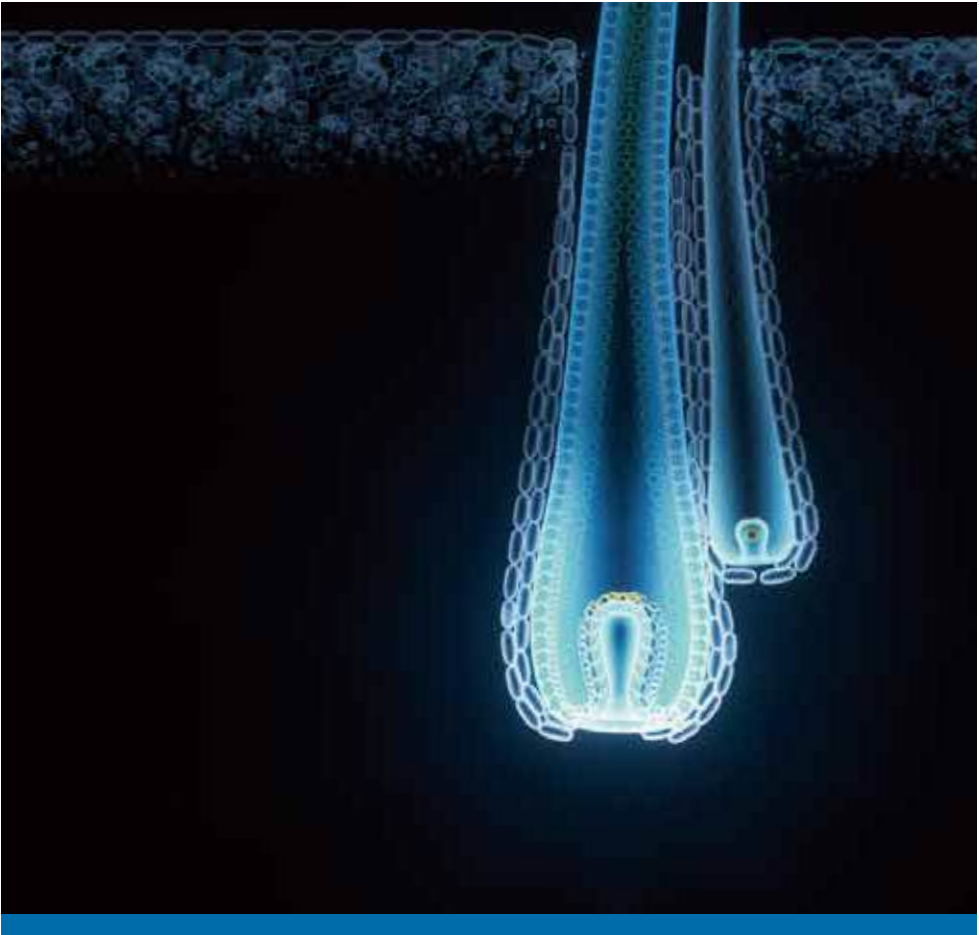
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Sanakin®

ACRS-HPR Therapy

Hair Papilla Regenerative Therapy

Reducing the inflammation of follicle dermal papilla cells and restoring a healthy immune system to the scalp.



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