glymed+

EPIGENETICS: Creating Positive Changes in the Skin

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INTRODUCTION

For years, scientists believed a person's genes were set in stone. However, epigenetics has proven that outside influences can turn genes on or off like light switches, affecting the person's health and appearance without changing their genetic makeup. This phenomenon explains why identical twins can look different, depending on their environment and lifestyle.

The development of epigenetic science has completely transformed the professional skincare industry. By harnessing the power of epigenetics, scientists have unlocked the potential

to create advanced ingredients that not only improve the skin but also prevent any negative changes. Leading professional skincare brands like GlyMed Plus utilize these cutting-edge ingredients to create revolutionary formulations that achieve unparalleled results.

Incorporating GlyMed's epigenetic-based products into your practice will empower you to maximize your clients' skin health and establish a reputation as an outstanding skincare professional.



WHAT is EPIGENETICS?

Epigenetics is the study of how external factors can change the way the body reads DNA sequences. These readings determine whether the body produces certain proteins and other molecules, thus altering the gene expression or phenotype.

Epigenetic changes can occur in three ways:

01 DNA Methylation

This chemical reaction occurs when small molecules called methyl groups attach to specific pieces of DNA. These chemical "marks" block proteins from reading the gene and carrying that information to other parts of the body.

02 Histone Modification

In chromosomes, DNA is wrapped around basic proteins called histones. Chemical groups can alter how tightly or loosely these histones pack together. If a chemical group makes them compact, it prohibits proteins from accessing the DNA, turning the gene "off." If chemical groups loosen the histones, proteins can read the DNA, turning the gene "on."

03 Non-coding RNA

DNA gives the body instructions to produce coding RNA and non-coding RNA. Coding RNA creates proteins, while non-coding RNA breaks down coding RNA to stop proteins from forming. Environmental exposures and behaviors can alter non-coding RNA, modifying gene expression.

The epigenetic changes caused by these three methods are collectively known as the epigenome.



WHAT TRIGGERS EPIGENETIC CHANGES

Various behaviors and environmental factors can alter gene expression, including:



The epigenetic changes brought on by these external factors can dramatically impair your client's skin. For example, UV radiation can stimulate chemical reactions that instruct fibroblasts to produce less collagen accelerating skin aging.

HOW EPIGENETICS RELATES TO SKINCARE

The skin is the body's first line of defense against harsh environmental aggressors, making it more susceptible to epigenetic changes. These modifications can weaken the stratum corneum, allowing dirt, bacteria and impurities to wreak havoc on the skin. To help your clients enjoy optimal health and beauty, their skin needs products that will help correct, heal and protect it from epigenetic changes.

Scientists have used epigenetics to create ground-breaking ingredients that impact cellular health and change gene expression over time. Through topical application, these revolutionary ingredients can reverse epigenetic changes and reset gene DNA patterns daily to prevent unwanted outcomes. For example, advanced drone technology can delay facial muscle contractions to reduce wrinkle formation.

Additionally, epigenetic ingredients can stimulate positive changes in the skin, instructing it to "act younger" by producing more collagen and accelerating skin renewal. By turning aging mechanisms off and turning younger-acting skin mechanisms on, these cutting-edge ingredients can optimize gene expression, resulting in glowing, youthful skin.

HOW GLYMED PLUS UTILIZES

GlyMed Plus uses highly specialized epigenetic peptides to care for specific areas of the skin. By working on the cellular level, these proprietary ingredients influence gene expression to achieve the best possible outcome.

Clients who cannot tolerate or feel intimidated by aggressive treatments can receive the same benefits from these epigenetic peptides. For clients who want advanced treatments like active peels, these proprietary ingredients can enhance your services to achieve even better results.

GLYMED'S

EPIGENETIC PEPTIDES





PERFECTION PEPTIDE

Acetyl Sh-heptapeptide-1

This protective heptapeptide protects DNA against oxidative stress by activating Nrf2.

- Stimulates the skin's self-defense mechanisms
- Fights extrinsic and chronological aging
- Neutralizes free radicals
- Empowers antioxidant capacity

Available in: <u>Peptide Serum</u> and <u>Professional Peptide Perfection Exfoliator</u>

02

BIO-RENEWAL PEPTIDE

Hexanoyl Dipeptide-3 Norleucine Acetate

This biologically-active tripeptide reactivates the natural desquamation process for a fresher and more vibrant complexion.

- Speeds up cell renewal
- Reduces wrinkle depth
- Smooths the skin's micro-texture
- Intensely hydrates the skin

Available in: Bio-Renewal Serum

ROYAL PEPTIDE

Pentapeptide-48

Inspired by the royal jelly created by honeybees, this pentapeptide accelerates the proliferation of cell turnover and protein repair within the skin.

- Promotes the upregulation of aged skin cells
- Activates protein turnover through proteasome stimulation
- Maintains skin cells' regenerative potential

Available in: <u>Age Delay Cream</u> and <u>Atraxi Peptide</u>



CONCLUSION

Epigenetics offers limitless possibilities for you as a skincare professional. By harnessing GlyMed's revolutionary products for home care and in-clinic treatments, you'll have the power to transform your client's skin on the cellular level. Say goodbye to unwanted epigenetic changes and hello to a radiant, youthful complexion!

Ready to give your clients mind-blowing results? Open a <u>GlyMed Professional Account</u> today!



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