Wrinkles • Lifting • Brightening • Tightening • Volume Reduction • Firming and Shaping

Biocosmetical
Noble Stemcell Technology
Bio Innovation Holdings Limited ("BIH") is the partner of BIH Stemmediacare Lab in Korea which is dedicated for last 10 years in research and development of stem cell conditioned media technology oriented bio-cosmeticals and anti-aging solutions and BIH represents its innovative biocosmeceuticals (Bio Stem CM) distributionship and marketing in global market since 2000.

Stemmedicare lab is producing patented conditioned media from Amnionotic fluid derived fetal mesenchamal stemcell (AFSC-CM) and it has composed with 12% of 38 types of collagen and 1300 kinds more of cytokains, growth factors and bio-microproteins which is working as communication channel among cell-to-cell. Stemmedicare lab were awarded by Korean bio-science ministry 3 times as the best bio technology by its highest concentration of bio–protein conditioned media and move towards to anti-cancer, disease solutions in therapeutic filed.

“…during the course of stem cell technology research and development, we were, and are still infinitely, amazed by our new discoveries of production of cell restorative agents called AFSC – CM – that’s the beauty of science and the greatest reward of our dedications. Now it’s time to make this anti-aging technology available to the professionals and consumers for the benefit of aesthetic and therapeutic solution.”

Theresa Jang,
Business Managing Director

AF-MSC-SM

Pure Protein Complex isolated from culture media of human amniotic fluid-derived fetal stem cells containing various growth factors and small peptides involved in cell proliferation and regeneration secreted from fetal stem cells in amniotic fluid.

Synthetic Conditioned Media (SCM)
The complex of various synthetic peptides similar to the peptides contained in AF-MSC-CM related to cell proliferation, regeneration and wound healing by activating stem cells in the skin.

Identification of all proteins of AF-MSC CM

Functional Grouping of all Proteins

Selection of key peptides by function and efficacy

Application on each cosmetic products by mixing of key peptides complex (SCM) with NATURAL composition of AF-MSC-CM

containing more than 1,357 kinds of proteins with NATURAL botanical composition

active antioxidants

no preservatives

nanosome liposomised
IN 2015, KFDA PROOF

BIH is pleased to share with you great news regarding our Hair Grow Control Solution, which has just received objective proof from the FDA lab in Korea on its effect is on par with Minoxidil 5%, the most effective hair growth drug in the international medical field. Enclosed you can find the advanced Hair Growth Control efficacy test results (draft) issued by the KCL - GLP Test Institute appointed by the KFDA.

we compare with our Hairgrow control solution (AFSC-CM 3%) with Minoxidil 5% for its hairgrowth efficacy within short period of time (15days).

We are proud to say that the results clearly indicate that our advanced Hair Growth Control is much more effective compared with Minoxidil 5%, the test shows our 3% AFSC-CM is as effective as 5% minoxidil and our current hairgrowth control solution contain 6-8% concentration of AFSC-CM.

As for Skin rejuvenation effect, we also got same. KFDA designated- official lab report, our AFSC-CM is 14times more effective than well acknowledged popular anti-aging functioned cosmetic ingredients such as Adenosine and 5 times higher effective than TGF Beta in regards with collagen synthesis formation strength.

we also found recently our AFSC-CM has average 38kinds of collagen type ,1300kinds of cytokain , growth factors and our lab develop new patented technology to make highest ratio of concentration of conditioned media during culturing procedure.

Hair Growth Efficacy Test (Boosting of Hair Anagen)

Enhancement of Collagen Synthesis

Collagen synthesis evaluation of Human Amniotic Fluid Cell Conditioned Media (ASCE I) using Procollagen Type I-peptide EIA kit in human fibroblast cell (CCD-98Sk). TGF-ß : 5ng/ml ; Adenosine (ADNS) : 0.04%. Statistically significant difference is indicated by *p<0.05 when compared with control. Parenthesis () indicates total protein quantity (ug/ml). Values are expressed as Mean ± Standard Error.
### Key Peptides of SCM

<table>
<thead>
<tr>
<th>Recombinant Peptides</th>
<th>Description in COSINS</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexapeptide-9</td>
<td>Hexapeptide-9 is a synthetic peptide containing Glutamine, Glycine and Proline residues</td>
<td>Skin, Hair</td>
</tr>
<tr>
<td>Oligopeptide-6</td>
<td>Oligopeptide-6 is a synthetic peptide consisting of alanine, arginine, aspartic acid, asparagine, glutamine, glycine, histidine, isoleucine, leucine, lysine, phenylalanine and threonine</td>
<td>Skin, Hair, Body</td>
</tr>
<tr>
<td>HEXAPEPTIDE-3</td>
<td>HEXAPEPTIDE-3 is a synthetic peptide consisting of Alanine, Aspartamine, Leucine, Lysine, Proline and Threonine</td>
<td>Skin, Hair, Body</td>
</tr>
<tr>
<td>Tripeptide-3</td>
<td>Tripeptide-3 is a synthetic peptide containing glycine, serine and valine residues</td>
<td>Body</td>
</tr>
<tr>
<td>Hexapeptide-2</td>
<td>Hexapeptide-2 is a synthetic peptide containing Alanine, Aspartamine, Leucine, Lysine, Proline and Threonine</td>
<td>Skin(Whitening)</td>
</tr>
<tr>
<td>OLIGOPEPTIDE-68</td>
<td>OLIGOPEPTIDE-68 is the synthetic peptide containing 12 amino acids consisting of arginine, histidine, arginine, glutamine, glycine, histidine, isoleucine, leucine, serine, threonine, tryptophan and tyrosine</td>
<td>Skin(Whitening)</td>
</tr>
<tr>
<td>OLIGOPEPTIDE-49</td>
<td>OLIGOPEPTIDE-49 is a synthetic 35 amino acid peptide consisting of alanine, arginine, aspartic acid, glutamine, histidine, isoleucine, leucine, lysine, proline, and threonine</td>
<td>Skin</td>
</tr>
<tr>
<td>OLIGOPEPTIDE-48</td>
<td>OLIGOPEPTIDE-48 is a synthetic 40 amino acid peptide consisting of alanine, arginine, aspartic acid, glutamine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, and valine</td>
<td>Hair</td>
</tr>
<tr>
<td>OLIGOPEPTIDE-47</td>
<td>OLIGOPEPTIDE-47 is a synthetic 35 amino acid peptide consisting of alanine, arginine, aspartic acid, glutamine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, and proline</td>
<td>Skin, Hair</td>
</tr>
<tr>
<td>OLIGOPEPTIDE-46</td>
<td>OLIGOPEPTIDE-46 is a synthetic 50 amino acid peptide consisting of alanine, arginine, aspartic acid, asparagine, glutamine, glycine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, proline, serine, threonine, and valine</td>
<td>Skin, Hair, Body</td>
</tr>
<tr>
<td>PENTAPEPTIDE-18</td>
<td>PENTAPEPTIDE-18 is a synthetic peptide consisting of alanine, glycine, histidine, histidine, isoleucine, leucine, lysine, methionine, phenylalanine, and threonine</td>
<td>Skin(Whitening)</td>
</tr>
<tr>
<td>HEXAPEPTIDE-10</td>
<td>HEXAPEPTIDE-10 is a synthetic peptide containing Alanine, Isoleucine, Lysine, Serine and Valine residues</td>
<td>Hair</td>
</tr>
</tbody>
</table>

### Application for Products

<table>
<thead>
<tr>
<th>Applications</th>
<th>SCM (Key Peptides)</th>
<th>Product Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin (Whitening)</td>
<td>SCM-WH (Hexapeptide-2, OLIGOPEPTIDE-68, PENTAPEPTIDE-18, Oligopeptide-6, HEXAPEPTIDE-3, PENTAPEPTIDE-18)</td>
<td>White Radiance Solution, Pigment Control, Recovery Hydra Pump, Recovery Essence</td>
</tr>
<tr>
<td>Hair (Growth, anti-hair loss)</td>
<td>SCM-HG (Hexapeptide-9, Oligopeptide-6, HEXAPEPTIDE-3, OLIGOPEPTIDE-48, OLIGOPEPTIDE-47, OLIGOPEPTIDE-46, HEXAPEPTIDE-10)</td>
<td>Hair Grow Control, Hair Follicle Revive Solution, Hair Tonic Essence</td>
</tr>
<tr>
<td>Body (Slimming)</td>
<td>SCM-SL (Oligopeptide-6, HEXAPEPTIDE-3, PENTAPEPTIDE-18, OLIGOPEPTIDE-46)</td>
<td>Hair Grow Control, Hair Follicle Revive Solution, Hair Tonic Essence</td>
</tr>
</tbody>
</table>
**Magic Filler Cream**
Magic Filler Cream is specifically formulated for mature skin. The magical active ingredients do not simply uplift and smooth out wrinkles simultaneously by improving the skin’s elasticity, but also prevent the formation of wrinkles.

**Recovery Hydra Pump**
One of the signature products in Home Care Series for skin cell recovery. Apart from moisturizing effect, it also enhance self-repair mechanism of cells, which is perfect remedy for skins after laser, peeling or microneedle therapy.

**White Radiance Solution**

**Age Reverse Solution**
Enhanced synthesis of Collagen III. Increase collagen synthesis with activation of TGF-beta. Powerful Moisturizing Effect & Protection Effect

**Recovery Mask**
The unique bio-cellulose mask sheet filled with CRAs provide skin moisturizing and cooling effects, reduce redness and swells and at the same time improves skin vitality and elasticity.

**Hair Tonic Essence (Male, Female)**
Fast, immediate and easy volume-up effect
Since follicle cells are vulnerable to changes of both internal and external environment of many kinds, it is crucial to maintain the vitality and regeneration abilities of follicle cells to keep your hair in perfect condition and volume. This essence is designed to balance sebum and moisture level, protect scalp from microbial and free-radicals.

**Post-Treatment Recovery Solution**
- Total Wound Healing Solution
- Maximize the laser treatment effects
- Increase patient’s satisfaction by reducing the pain and downtime

**Aqua BB Cream**
Make-up base + Foundation + Sun Cream (SPF 20)
- Moisturizing
- Sun Protection : SPH 20/PA+
- Antimicrobial & Relaxing Effect : Phytoncide
- Intensive Moisturizing Effect : Illite
- Skin Firming & Elastin Care : Algae Extract
- DAY Care Program

**Magic Whitening Cream**
- Immediate Whitening / Brightening Effect
- Long-Term Whitening Effect
- Extensive Hydration / Radiance / Moisturizing Effect
**STEP I - Cleansing**

**Hair Revitalizing Shampoo & Conditioner**
- Oxygen supply to the scalp
- Elimination of aging exfoliating
- Keep the balance of oil-water
- Cleaning of toxic substances (toxin, heavy metal, the residue of other hair products)
- Protect the scalp from the polluted environment

**STEP II - Treatment**

**Hair Glow Control**
- Addition of various peptides and amino acids (Nutrition & Vitality)
- Inhibition of 5 alpha-reductase & DHT blocking effect
- Enhanced Hair Regeneration and Growth Effect
- Increased Sebum Control and Antimicrobial Effect

**STEP III - After-care**

**Hair Styling Tonic**
- Fast + Immediate + Easy Volume-up Effect
- Patent & KFDA - Anti Hair Loss Hair Regrowth
- Volume Styling-Long-lasting Hair Styling
- Hair Care - Peptides + Vitamins

**STEP IV - Homecare**

**BIO STEM CM Hair Tonic Essence**
For Male & For Female
- Relaxation, Intensive soothing
- Hair Regeneration and Growth
- Sebum Control, Antimicrobial
- Nutrition, Vitality

**Grey Hair Reverse Solution**
- Activation of Keratinocyte
- Activation of Hair Follicle Stem Cell : Maintenance of Stemness and Population
- Return to normal condition of Melanocyte Stem Cell : Activation of Wnt / β-cat pathway
- Promotion of Melanocyte differentiation
Clinical Test

Wound Healing
Age: 40 Gender: Man Treatment Period: 2 weeks

Stretch Mark Control
Age: 22 Gender: Woman Treatment Period: 1 months

Scar Control
Age: 38 Gender: Woman Treatment Period: 3 weeks

Hair Grow Solution
Age: 25 Gender: Man Treatment Period: 4 months

Hair Grow Solution
Age: 35 Gender: Man Treatment Period: 3 months

Hair Grow Solution
Age: 59 Gender: Man Treatment Period: 6 months