Amended Claims (Clean Copy)

1. A composition for stimulating the formation of one or more extracellular matrix components in skin or mucosa, comprising N-Octanoyl Carnosine, lipoaminoacid derivative of the tripeptide GHK (N-Palmitoyl-GHK), and the tetra-peptide GEKG (SEQ ID NO:1) at a weight ratio of 4:1:5.

2. The composition of claim 1, wherein the composition further comprises one or more carriers or excipients suitable for topical administration or subcutaneous administration.

3. The composition of claim 2, wherein the one or more extracellular matrix components are selected from the group consisting of collagen I, collagen, III, collagen V, collagen VI, collagen VII, collagen XVI, elastin, laminin, hyaluronic acid, fibrillin, heparan sulfate proteoglycan 2, and combinations thereof.

4. The composition of claim 3, wherein the composition stimulates the formation of one or more extracellular matrix components predominantly associated with skin aging selected from the group consisting of collagen I, collagen III, collagen VII, elastin, hyaluronic acid, and combinations thereof.

5. The composition of claim 3, wherein the composition stimulates the formation of collagen III to a higher degree than the formation of collagen I.

6. The composition of claim 4, wherein the composition stimulates formation of hyaluronic acid.

7. The composition of claim 2, wherein the composition is suitable for topical administration in humans on skin, aged skin, damaged skin, skin after cosmetic and dermatological procedures, atrophic skin, atrophic mucosa, wounded skin, vulva, vagina, atrophic vulva, atrophic vagina, vulvovaginal atrophy, or on skin and mucosa associated with changes in extracellular matrix components.

8. The composition of claim 6, wherein the composition is suitable for topical administration in humans on skin, aged skin, damaged skin, skin after cosmetic and dermatological procedures, atrophic skin, wounded skin, vulva, vagina, atrophic vulva, atrophic vagina, or on skin and mucosa associated with changes in extracellular matrix components.

9. The composition of claim 2, wherein the composition comprises between about 0.0001% to 10% per weight of Octanoyl Carnosine.

10. The composition of claim 1, wherein the composition comprises between about 0.0001% to 10% per weight of Octanoyl Carnosine.

11. The composition of claim 1, wherein the composition comprises about 0.004% per weight of

Octanoyl Carnosine; about 0.001% per weight of Palmitoyl-GHK, and about 0.005% per weight of GEKG, and one or more acceptable carriers or excipients suitable for topical application in humans on skin, aged skin, damaged skin, skin after cosmetic and dermatological procedures, wounded skin, atrophic skin, atrophic mucosa, atrophic vulva, atrophic vagina, or for skin and mucosa associated with changes in extracellular matrix components.

12. A pharmaceutical composition comprising the composition of claim 2 and one or more pharmaceutically acceptable carriers.

13. A cosmetic composition comprising the composition of claim 2 and one or more cosmetically acceptable carriers.