What is claimed is:

1. A method of reducing hair loss and/or facilitating hair growth or hair regrowth comprising the steps of applying to skin of a mammal in need of such treatment a safe and effective amount of a composition comprising from about 0.1% to about 100% by weight of an admixture, comprising:

   a. from about 0.01% to about 99.98% by weight of the admixture of an acid selected from the group consisting of intermediates of the Kreb cycle, non-Kreb cycle intermediate alpha-keto acid, derivatives thereof, salts thereof and mixtures thereof;

   b. from about 0.01% to about 99.98% by weight of the admixture of an antioxidant; and

   c. from about 0.01% to about 99.98% by weight of the admixture of a fatty acid mixture or fatty acid mixture source comprising at least 7 unsaturated or saturated fatty acids selected from the group consisting of butyric acid, caproic acid, caprylic acid, capric acid, lauric acid, myristic acid, myristoleic acid, palmitic acid, palmitoleic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, arachidic acid, gadoleic acid, pentadecanoic acid, margaric acid, margaroleic acid, behenic acid, dihomolinoleic acid, arachidonic acid and lignoceric acid.

2. The method of claim 1, wherein the acid is an alpha-keto acid.

3. The method of claim 1, wherein the alpha-keto acid is selected from the group consisting of pyruvic acid, alpha- ketoglutaric acid, alpha-ketoisovaleric acid, alpha-ketoisocaproic acid, salts thereof and mixtures thereof.

4. The method according to claim 3, wherein the alpha-keto acid is a pyruvic acid selected from the group consisting of pyruvic acid, lithium pyruvate, sodium pyruvate, potassium pyruvate, magnesium pyruvate, calcium pyruvate, zinc

pyruvate, manganese pyruvate, methyl pyruvate, salts thereof, prodrugs thereof, and mixtures thereof.

5. The method according to claim 4, wherein the pyruvic acid is sodium pyruvate.

6. The method according to claim 1, wherein the antioxidant is selected from the group consisting of a Vitamin A; a Vitamin C; a tocopherol; prodrugs of Vitamin A, prodrugs of Vitamin C, and prodrugs of Vitamin E; salts of Vitamin A, salts of Vitamin C, and salts of Vitamin E; flavonoids; polyphenols; and mixtures thereof.

7. The method according to claim 6, wherein the antioxidant is a Vitamin E selected from the group consisting of alpha-tocopherol, beta-tocopherol, gamma-tocopherol, delta-tocopherol, tocoquinone, tocotrienol, esters thereof and mixtures thereof.

8. The method according to claim 7, wherein the Vitamin E is selected from the group consisting of esters of tocopherol, esters of beta-tocopherol, esters of gamma-tocopherol, esters of delta-tocopherol, esters of tocoquinone, esters of tocotrienol and mixtures thereof.

9. The method according to claim 8, wherein the Vitamin E is selected from the group consisting of an acetate ester of tocopherol, acetate ester of beta-tocopherol, acetate ester of gamma-tocopherol, acetate ester of delta-tocopherol, acetate ester of tocoquinone, acetate ester of tocotrienol and mixtures thereof.

10. The composition of according to claim 1 wherein the fatty acids are present in the fatty acid mixture by weight as follows: about 0.2%-0.4% butyric acid, about 0.1% caproic acid, about 0.3%-0.8% caprylic acid, about 2.2%-3.5% capric acid, about 0.9%-5.5% lauric acid, about 2.8%-8.5% myristic acid, about 0.1%-0.6% myristoleic acid, about 23.2%-24.6% palmitic acid, about 1.8%-3.0% palmitoleic acid, about 6.9%-9.9% stearic acid, about 36.0%-36.5% oleic acid, about 20%-

20.6% linoleic acid, about 7.5-7.8% linolenic acid, about 1.1%-4.9% arachidic acid, and about 3.3%-6.4% gadoleic acid.

11. The composition of according to claim 1 wherein the fatty acids are present in the fatty acid mixture by weight as follows: about 0.3% myristic acid, about 19% palmitic acid, about 0.5% palmitoleic acid, about 13% stearic acid, about 44.4% oleic acid, about 21.3% linoleic acid, and about 0.5% linolenic acid.

12. The method according to claim 1, being in the form of a suitable topical carrier.

13. The method according to claim 12, wherein the topical carrier is in the form of an ointment, paste, gel, jelly, serum, aerosol spray, non-aerosol spray, foam, cream, lotion, solution, suspension.

14. The method according to claim 13, wherein the composition is in the form of a lotion or suspension.

15. A method of reducing hair loss and/or facilitating hair growth or hair regrowth comprising the steps of applying to the scalp of a mammal in need of such treatment a safe and effective amount of a composition comprising from about 5% to about 50% of an admixture, comprising:

    a. from about 0.01% to about 99.98%by weight of the admixture of an acid selected from the group consisting of pyruvic acid, a salt thereof and mixtures thereof;

    b. from about 0.01% to about 99.98% by weight of the admixture of a tocopherol or a ester thereof; and

    c. from about 0.01% to about 99.98% by weight of the admixture of a fatty acid mixture source, the fatty acid mixture source being an oil mixture comprising:

i. from about 0.01% to about 99.98% by weight of the fatty acid mixture of olive oil;

ii. from about 0.01% to about 99.98% by weight of the fatty acid mixture of cocoa butter; and

iii. from about 0.01% to about 99.98% by weight of the fatty acid mixture of cottonseed oil.

16. A method of reducing hair loss and/or facilitating hair growth or hair regrowth comprising the steps of applying to the scalp of a mammal in need of such treatment a safe and effective amount of a composition comprising from about 5% to about 50% by weight of an admixture, comprising:

a. from about 20% to about 70% by weight of the admixture of an acid selected from the group consisting of pyruvic acid, a salt thereof and mixtures thereof;

b. from about 20% to about 70% by weight of the admixture of an antioxidant; and

c. from about 20% to about 70% by weight of the admixture of a fatty acid mixture or fatty acid mixture source

wherein the ratio of the pyruvic acid component to the fatty acid mixture is from 0.01:1 (or about 0.01:1) to 1:0.01 (about 1:0.01); the ratio of the pyruvic acid component to the antioxidant component is from 0.01:1 (or about 0.01:1) to 1:0.01 (or about 1:1.01); and the ratio of the fatty acid mixture component to the antioxidant component is from 0.01:1 (or about 0.01:1) to 1:0.01 (or about 1:0.01).

17. The method of claim 16, wherein the ratio of the pyruvic acid component or the fatty acid component to the antioxidant component is from 1:1 to 1:0.5.

18. A hair growth composition, comprising:
    a. optionally, a safe and effective amount of at least one hair regrowth active;
    b. from 5% to 10%, by weight of the composition of an acid;
    c. from 5% to 10%, by weight of the composition of an antioxidant; and
    d. from 5% to 10%, by weight of the composition of a fatty acid mixture or fatty acid mixture source, the fatty acid mixture or fatty acid mixture source being an oil mixture comprising:
        i) from 0.01% to 99.98%, by weight of the fatty acid mixture of a first oil;
        ii) from 0.01% to 99.98%, by weight of the fatty acid mixture of a second oil; and
        iii) from 0.01% to 99.98%, by weight of the fatty acid mixture of a third oil.

19. A hair regrowth composition, comprising
    a. a safe and effective amount of at least one hair growth active; and
    b. from about 0.1% to about 99% of an admixture, comprising:
        i. from about 0.01% to about 99.98% by weight of the admixture of an acid selected from the group consisting of intermediates of the Kreb cycle, non-Kreb cycle intermediate alpha-keto acid, derivatives thereof and mixtures thereof;
        ii. from about 0.01% to about 99.98% by weight of the admixture of an antioxidant; and
        iii. from about 0.01% to about 99.98% by weight of the admixture of a fatty acid mixture or fatty acid mixture source comprising at least 7 unsaturated or saturated fatty acids selected from the group

consisting of butyric acid, caproic acid, caprylic acid, capric acid, lauric acid, myristic acid, myristolcic acid, palmitic acid, palmitoleic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, arachidic acid, gadoleic acid, pentadecanoic acid, margaric acid, margaroleic acid, behenic acid, dihomolinoleic acid, arachidonic acid and lignoceric acid.

What is claimed is:

1. A method of reducing hair loss and/or facilitating hair growth or hair regrowth comprising the steps of applying to skin of a mammal in need of such treatment a safe and effective amount of a composition comprising from about 0.1% to about 100% by weight of an admixture, comprising:

a. from about 0.01% to about 99.98% by weight of the admixture of an acid selected from the group consisting of intermediates of the Kreb cycle, non-Kreb cycle intermediate alpha-keto acid, derivatives thereof, salts thereof and mixtures thereof;

b. from about 0.01% to about 99.98% by weight of the admixture of an antioxidant; and

c. from about 0.01% to about 99.98% by weight of the admixture of a fatty acid mixture or fatty acid mixture source comprising at least 7 unsaturated or saturated fatty acids selected from the group consisting of butyric acid, caproic acid, caprylic acid, capric acid, lauric acid, myristic acid, myristoleic acid, palmitic acid, palmitoleic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, arachidic acid, gadoleic acid, pentadecanoic acid, margaric acid, margaroleic acid, behenic acid, dihomolinoleic acid, arachidonic acid and lignoceric acid.

2. The method of claim 1, wherein the acid is an alpha-keto acid.

3. The method of claim 1, wherein the alpha-keto acid is selected from the group consisting of pyruvic acid, alpha-ketoglutaric acid, alpha-ketoisovaleric acid, alpha-ketoisocaproic acid, salts thereof and mixtures thereof.

4. The method according to claim 3, wherein the alpha-keto acid is a pyruvic acid selected from the group consisting of pyruvic acid, lithium pyruvate, sodium pyruvate, potassium pyruvate, magnesium pyruvate, calcium pyruvate, zinc pyruvate, manganese pyruvate, methyl pyruvate, salts thereof, prodrugs thereof, and mixtures thereof.

5. The method according to claim 4, wherein the pyruvic acid is sodium pyruvate.

6. The method according to claim 1, wherein the antioxidant is selected from the group consisting of a Vitamin A; a Vitamin C; a tocopherol; prodrugs of Vitamin A, prodrugs of Vitamin C, and prodrugs of Vitamin E; salts of Vitamin A, salts of Vitamin C, and salts of Vitamin E; flavonoids; polyphenols; and mixtures thereof.

7. The method according to claim 6, wherein the antioxidant is a Vitamin E selected from the group consisting of alpha-tocopherol, beta-tocopherol, gamma-tocopherol, delta-tocopherol, tocoquinone, tocotrienol, esters thereof and mixtures thereof.

8. The method according to claim 7, wherein the Vitamin E is selected from the group consisting of esters of tocopherol, esters of beta-tocopherol, esters of gamma-tocopherol, esters of delta-tocopherol, esters of tocoquinone, esters of tocotrienol and mixtures thereof.

9. The method according to claim 8, wherein the Vitamin E is selected from the group consisting of an acetate ester of tocopherol, acetate ester of beta-tocopherol, acetate ester of gamma-tocopherol, acetate ester of delta-tocopherol, acetate ester of tocoquinone, acetate ester of tocotrienol and mixtures thereof.

10. The method according to claim 1 wherein the fatty acids are present in the fatty acid mixture by weight as follows: about 0.2%-0.4% butyric acid, about 0.1% caproic acid, about 0.3%-0.8% caprylic acid, about 2.2%-3.5% capric acid, about 0.9%-5.5% lauric acid, about 2.8%-8.5% myristic acid, about 0.1%-0.6% myristoleic acid, about 23.2%-24.6% palmitic acid, about 1.8%-3.0% palmitoleic acid, about 6.9%-9.9% stearic acid, about 36.0%-36.5% oleic acid, about

20%-20.6% linoleic acid, about 7.5-7.8% linolenic acid, about 1.1%-4.9% arachidic acid, and about 3.3%-6.4% gadoleic acid.

11. The method according to claim **1** wherein the fatty acids are present in the fatty acid mixture by weight as follows: about 0.3% myristic acid, about 19% palmitic acid, about 0.5% palmitoleic acid, about 13% stearic acid, about 44.4% oleic acid, about 21.3% linoleic acid, and about 0.5% linolenic acid.

12. The method according to claim **1**, being in the form of a suitable topical carrier.

13. The method according to claim **12**, wherein the topical carrier is in the form of an ointment, paste, gel, jelly, serum, aerosol spray, non-aerosol spray, foam, cream, lotion, solution, suspension.

14. The method according to claim **13**, wherein the composition is in the form of a lotion or suspension.