

CLAIMS

1. A composition comprising an effective amount of three or more PPAR agonists selected from the group consisting of glyceryl linoleate, glyceryl linolenate, xymenynic acid, and *Pterocarpus Marsupium* bark extract.
2. The composition of claim 1, wherein the composition contains the following PPAR agonists: glyceryl linoleate, glyceryl linolenate, xymenynic acid, and *Pterocarpus Marsupium* bark extract.
3. The composition of claim 1, wherein the effective amount of glyceryl linoleate is about 75% to about 94% by weight of the composition.
4. The composition of claim 1, wherein the effective amount of glyceryl linolenate is about 5% to about 10% by weight of the composition.
5. The composition of claim 1, wherein the effective amount of xymenynic acid is about 5% to about 10% by weight of the composition.
6. The composition of claim 1, wherein the effective amount of *Pterocarpus Marsupium* bark extract is about 1% to about 5% by weight of the composition.
7. A topical formulation comprising a composition of an effective amount of the following PPAR agonists: glyceryl linoleate, glyceryl linolenate, xymenynic acid, and *Pterocarpus Marsupium* bark extract, and pharmaceutically or cosmetically acceptable excipients, wherein the formulation is suitable for topical administration.
8. The topical formulation of claim 7, wherein glyceryl linoleate is in an amount of about 0.375% to about 4.7% by weight of the topical formulation.
9. The topical formulation of claim 7, wherein glyceryl linolenate is in an amount of about 0.025% to about 0.5% by weight of the topical formulation.
10. The topical formulation of claim 7, wherein xymenynic acid is in an amount of about 0.025% to about 0.5% by weight of the topical formulation.
11. The topical formulation of claim 7, wherein *Pterocarpus Marsupium* bark extract is in an amount of about 0.005% to about 0.25% by weight of the topical formulation.

12. A method of inducing skin barrier repair comprising topically administering a topical formulation of claim 7.
13. The method of claim 12, wherein inducing skin barrier repair results in the biosynthesis of barrier lipids and proteins in the skin selected from the group consisting of ceramides, filaggrin, trans-glutaminase 1, TGFB1, keratins, LCE1D, CERS3, CDH1, FOXO1, HSP27, involucrin, loricrin, beta-glucocerebrosidase, aquaporin 3, ABCA12, ADRP, FIAF, and combinations thereof.
14. The method of claim 12, wherein inducing skin barrier repair results in the modulation of the expression of barrier genes in the skin selected from the group consisting of ceramides, filaggrin, trans-glutaminase 1, TGFB1, keratins, LCE1D, CERS3, CDH1, FOXO1, HSP27, involucrin, loricrin, beta-glucocerebrosidase, aquaporin 3, ABCA12, ADRP, FIAF and combinations thereof.
15. A method of improving aging skin comprising topically administering a topical formulation of claim 7.
16. The method of claim 15, wherein the improvement of aging skin is selected from the group consisting of smoothness, hydration and texture.
17. A method of preventing skin damage comprising topically administering a topical formulation of claim 7.
18. A method of improving the look of skin comprising topically administering a topical formulation of claim 7.
19. A method of calming and soothing irritated skin comprising topically administering a topical formulation of claim 7.
20. A method of treating atopic dermatitis (eczema) comprising topically administering a topical formulation of claim 7.
21. A method of treating photo-damage and hyperpigmentation comprising topically administering a topical formulation of claim 7.
22. A method of improving skin barrier function comprising topically administering a topical formulation of claim 7.

23. A method of improving skin surface texture comprising topically administering a topical formulation of claim 7.
24. A method of providing desquamation comprising topically administering a topical formulation of claim 7.
25. A method of improving skin brightening comprising topically administering a topical formulation of claim 7.
26. A method of mitigating irritation comprising topically administering a topical formulation of claim 7.
27. A method of supporting the skin's natural ability to defend itself against environmental stressors comprising topically administering a topical formulation of claim 7.
28. A method of stimulating hair growth comprising topically administering a topical formulation of claim 7.
29. A method of maintaining healthy hair comprising topically administering a topical formulation of claim 7.
30. A method of increasing hair density and volume comprising topically administering a topical formulation of claim 7.
31. A method of improving the look and feel of hair comprising topically administering a topical formulation of claim 7.
32. A method of treating acne comprising topically administering a topical formulation of claim 7.
33. A method of decreasing inflammation and irritation caused by acne lesions comprising topically administering a topical formulation of claim 7.
34. A method of inhibiting P. acnes comprising topically administering a topical formulation of claim 7.
35. A method of preventing follicle clogging comprising topically administering a topical formulation of claim 7.

36. A method of reducing the number of acne lesions comprising topically administering a topical formulation of claim 7.