CLAIMS

1. A method of stimulating hair growth in a skin of a patient in need thereof, comprising: administering to the skin of the patient a composition comprising hyaluronic acid in a concentration of about 1 mcg/mL to about 250 mcg/mL.

2. The method of claim 1, wherein the hyaluronic acid comprises an average molecular weight in a range of about 4,000 Da to 10,000 Da or in a range of about 20 KDa to 1350 KDa.

3. The method of claim 1, wherein the hyaluronic acid is cross-linked and optionally wherein the cross-linked hyaluronic acid density is about 20% or greater.

4. The method of claim 1, wherein the hyaluronic acid is present in a concentration of about 25 mcg/mL to about 250 mcg/mL.

5. The method of claim 1, wherein the hyaluronic acid is present in a concentration of about 50 mcg/mL to about 250 mcg/mL.

6. The method of claim 1, wherein the hyaluronic acid is present in a concentration of about 100 mcg/mL to about 250 mcg/mL.

7. The method of claim 1, wherein the hyaluronic acid has a concentration of about 100 ug/mL or less.

8. The method of claim 1, wherein the administering comprises injecting the composition into a dermal layer of the skin.

9. The method of claim 8, wherein the composition is injected about 400 microns to about 2 mm deep into the skin.

10. The method of claim 8, wherein the composition is administered in a plurality of injections in an amount of about 400 injections/cm^2 skin to about 650 injections/cm^2 skin.

11. The method of claim 1, further comprising applying iontophoresis to the skin.

12. The method of claim 1, further comprising applying electroporation to the skin.

13. The method of claim 1, further comprising applying laser ablation to the skin.

14. The method of claim 1, further comprising applying radiofrequency thermal ablation to the skin.

15. The method of claim 1, further comprising applying a microneedle device to the skin.

16. The method of claim 1, wherein the composition further comprises a CD44-binding ligand.

17. The method of claim 16, wherein the CD44-binding ligand is osteopontin.

18. A method of administering a composition for hair growth to a patient in need of treatment for hair loss comprising: injecting the composition into the skin of the patient, wherein the composition comprises hyaluronic acid in a concentration of about 1 mcg/mL to about 250 mcg/mL.

19. The method of claim 18, wherein the hyaluronic acid comprises an average molecular weight in a range of about 4,000 Da to 10,000 Da or in a range of about 20 KDa to 1350 KDa.

20. The method of claim 18, wherein the hyaluronic acid is cross-linked and optionally wherein the cross-linked hyaluronic acid density is about 20% or greater.

21. The method of claim 18, wherein the hyaluronic acid is present in a concentration of about 25 mcg/mL to about 250 mcg/mL.

22. The method of claim 18, wherein the hyaluronic acid is present in a concentration of about 50 mcg/mL to about 250 mcg/mL.

23. The method of claim 18, wherein the hyaluronic acid is present in a concentration of about 100 mcg/mL to about 250 mcg/mL.

24. The method of claim 18, wherein the hyaluronic acid has a concentration of about 100 ug/mL or less.

25. The method of claim 18, wherein the administering comprises injecting the composition into a dermal layer of the skin.

26. The method of claim 25, wherein the composition is injected via a needle, and wherein the needle is inserted 400 microns to about 2 mm into the skin before injection.

27. The method of claim 26, wherein the needle is a microneedle.

28. The method of claim 18, wherein the composition further comprises a CD44-binding ligand.

29. The method of claim 28, wherein the CD44-binding ligand is osteopontin.