CLAIMS

1. A pharmaceutical composition comprising an electron transport chain inhibitor and a pharmaceutically acceptable excipient, wherein the pharmaceutical composition is formulated for topical administration.

2. The pharmaceutical composition of claim 1, wherein the electron transport chain inhibitor is an inhibitor of electron transport chain complex I, II, III, or IV.

3. The pharmaceutical composition of claim 1, wherein the electron transport chain inhibitor is metformin, phenformin, buformin, rotenone, epiberberine, piericidin A, amytal, capsaicin, haloperidol, risperidone, bupivacaine, lidocaine, halothane, dantrolene, phenyloin, clofibrate, fenofibrat, sodium malonate, thenoyltrifluoroacetone, cyclophosphamide, ketoconazole, antimycin A, acetaminophen, isoflurane, sevoflurane, cephaloridine, cefazolin, or cefalotin; or a pharmaceutically acceptable salt thereof.

4. The pharmaceutical composition of claim 2, wherein the electron transport chain inhibitor is an inhibitor of electron transport chain complex I or III.

5. The pharmaceutical composition of claim 4, wherein the electron transport chain inhibitor is metformin, phenformin, buformin, rotenone, epiberberine, piericidin A, amytal, capsaicin, haloperidol, risperidone, bupivacaine, lidocaine, halothane, dantrolene, phenyloin, clofibrate, fenofibrat, antimycin A, acetaminophen, isoflurane, or sevoflurane.

6. The pharmaceutical composition of claim 5, wherein the electron transport chain inhibitor is rotenone, phenformin, or antimycin A.

7. Use of an electron chain transport inhibitor in the manufacture of a medicament for promoting hair growth.

8. Use of an electron chain transport inhibitor in the manufacture of a medicament for treating a condition or disorder affecting hair growth.

9. The use of claim 8, wherein the condition or disorder is baldness or alopecia.

10. The use of claim any one of claims 7-9, wherein the electron transport chain inhibitor is an inhibitor of electron transport chain complex I, II, III, or IV.

11. The use of claim 10, wherein the electron transport chain inhibitor is metformin, phenformin, buformin, rotenone, epiberberine, piericidin A, amytal, capsaicin, haloperidol, risperidone, bupivacaine, lidocaine, halothane, dantrolene, phenyloin, clofibrate, fenofibrat, sodium malonate, thenoyltrifluoroacetone, cyclophosphamide, ketoconazole, antimycin A, acetaminophen, isoflurane, sevoflurane, cephaloridine, cefazolin, or cefalotin; or a pharmaceutically acceptable salt thereof.

12. The use of claim any one of claims 7-9, wherein the electron transport chain inhibitor is an inhibitor of electron transport chain complex I or III.

13. The use of claim 12, wherein the electron transport chain inhibitor is metformin, phenformin, buformin, rotenone, epiberberine, piericidin A, amytal, capsaicin, haloperidol, risperidone, bupivacaine, lidocaine, halothane, dantrolene, phenyloin, clofibrate, fenofibrat, antimycin A, acetaminophen, isoflurane, or sevoflurane.

14. The use of claim 13, wherein the electron transport chain inhibitor is rotenone, phenformin, or antimycin A.