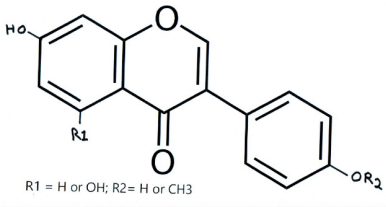
such as plant matter consistent with the Red Clover source. These isoflavones are also anti-inflammatory and tend to couple to the same receptor sites as anti-inflammatory hormones in the cascade, thereby reducing the need for endogenous biosynthesis, and allowing a shift in hormonal synthesis away from these hormones toward the lower end of the steroidal hormone cascade. Other sources of each of the preferred isoflavones are known, and chemical synthesis of each compound disclosed herein is possible, although for economic reasons and the balance of constituent compounds, the Red Clover natural source is preferred.

[0014] A second component is pharmaceutical grade alpha-lipoic acid administered in a selected form that has high potency and physiological availability. Specifically, the preferred form of alpha lipoic acid is highly enriched in the (R +) enantiomer (RLA) and acts as a cofactor for enzyme complexes. The preferred formulation is substantially free of the (L) enantiomer¸ at a minimum, has smaller percentage of the (L) enantiomer compared to the (R) enantiomer. A particularly preferred source is an enhanced RLA having increased bioavailability, limited inactive components, and at least 85-90% of the R-enantiomer.

[0015] The third component is L-dopamine or a precursor of L-dopamine (L-3,4-dihydroxyphenylalanine) specially selected for bioactivity and is preferably derived from a natural source. Preferably, the source is naturally derived from Mucuna pruriens extract that contains L-dopa. In the presence of the other constituents of the compositions of the disclosure, L dopamine has several beneficial effects on restoration of balance to the human steroidal hormonal cascade. Catechol-O-methyltransferase (COMT) catabolizes L-dopa and degrades estradiol. Mucuna Pruriens also provides a bioavailable L-dopa precursor that is metabolized to yield measurable increases, or preservation of nominally normal, concentrations of estradiol in vivo. Estradiol is a precursor of 2-methoxy estradiol (2-ME), regulates blood pressure blood pressure and acts as a neuroprotective agent.

[0015a] In one aspect, the present disclosure refers to a composition comprising a physiologically active dose of: (1) an R(+) enantiomer of alpha lipoic acid; (2) a plant-based source containing a dopamine precursor; and (3) a combination of isoflavones having the formula: 

and combinations thereof.

[0015b] In another aspect, the present disclosure refers to the composition as disclosed herein for use as a medicament.

[0016] The methods of the disclosure include treatment methods for a group of conditions characterized by persistent abnormalities in the human steroidal hormone cascade. The methods include co-administration of the compositions described herein, as well as formulation of the disclosed compositions using selected ingredients, co-factors, excipients, and precursors. The methods include targeted alterations to the human steroidal hormone cascade including down regulation, or reductions in in vivo concentrations of at least

CLAIMS

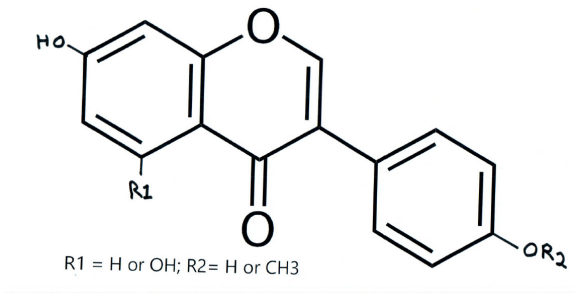
WHAT IS CLAIMED IS:

1. A composition comprising a physiologically active dose of:

(1) an R(+) enantiomer of alpha lipoic acid;

(2) a plant-based source containing a dopamine precursor; and

(3) a combination of isoflavones having the formula:



and combinations thereof.

2. The composition of claim 1, wherein the isoflavone combination is further comprised of an isoflavone compound having R1 = H and R2 = CH_3 and R1 = OH and R2 = CH_3 and combinations thereof.

3. The composition of claim 1, wherein the isoflavone combination is further comprised of an isoflavone having R1 = H and R2 = H and R1= H and R2 = OH and combinations thereof.

4. The composition of claim 1, wherein the isoflavone combination is further comprised of naturally occurring, non—isoflavone constituents of red clover.

5. The composition of claim 1, wherein the plant-based source is further comprised of non—dopamine constituents naturally occurring in Mucuna Pruriens.

6. The composition of claim 1, wherein the dopamine precursor is present in a plant species selected from the group consisting of the genus listed in Table 1 and combinations thereof.

7. The composition of claim 1, wherein each of the alpha lipoic acid, the plant-based dopamine precursor, and the isoflavone combination are combined in a single dosage form with a concentration of the plant-based dopamine precursor of at least 2 mg active ingredient.

8. The composition of claim 1, wherein each of the alpha lipoic acid, the plant-based dopamine precursor, and the isoflavone combination are combined in a single dosage form having a content of the plant-based dopamine precursor of between approximately 2 mg and 6 mg active ingredient 5mg and 30mg.

9. The composition of claim 1, wherein each of the alpha lipoic acid and the plant-based dopamine precursor are combined in a single dosage form having a content of the isoflavone combination of between 100-500 mg.

10. The composition of claim 1, wherein each of the alpha lipoic acid, the plant-based dopamine precursor, and the isoflavone combination are combined in a single dosage form with a total isoflavone content comprised of combination of biochanin A and formononetin of at least 240 milligrams.

11. The composition of claim 1, wherein each of the alpha lipoic acid, the plant-based dopamine precursor, and the isoflavone combination are combined in a single dosage form having a total isoflavone content of at least 300 milligrams.

12. The composition of claim 1, wherein composition is further comprised of natural plant tissue from Red Clover.

13. The composition of claim 1, wherein the dopamine precursor is substantially comprised of an L-form of dopamine and is substantially free of a D-form of dopamine.

14. The composition of claim 1, further comprising a peripheral nervous system decarboxylase inhibitor.

15. The composition of claim 1, further comprising composition B6.

16. The composition of claim 1, wherein the dose of the alpha lipoic acid is at least 85 % enriched for the (R) (+) enantiomer.

17. The composition of 16 wherein the alpha lipoic acid is a sodium salt thereof.

18. The composition of any of claims 1 -17 for use as a medicament.