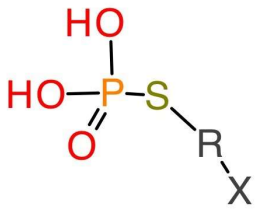
CLAIMS

1. A skin and/or hair depigmentation composition comprising

(i) a depigmentation effective amount of a thiophosphate derivative of formula I:



Formula I

or pharmaceutically acceptable salts thereof obtained from an inorganic acid or an organic acid wherein:

R is a C_1-C_{18} saturated or unsaturated, linear, branched, cyclic or aromatic hydrocarbon group,

X is selected from the group comprising OH, di-isopropylamine, di-phenylamine, di-ethylamine, di-methylamine

and

(ii) acceptable carriers for topical, oral and/or parenteral administrations.

2. The skin and/or hair depigmentation composition of claim 1, wherein

R is benzene ring or -CH_2-CH_2-.

3. The skin and/or hair depigmentation composition of claim 1, wherein

R is -CH_2-CH_2-.

4. The skin and/or hair depigmentation composition of claim 1, wherein said thiophosphate derivative is selected from the group comprising 2-di-isopropylaminoethanethiophosphate, 2- diphenylaminoethanethiophosphate, 2-dimethylaminoethanethiophosphate, and para-phenol-thiophosphate or pharmaceutically acceptable salts thereof.

5. The skin and/or hair depigmentation composition of claim 1, wherein said thiophosphate derivative is selected from the group comprising 2-di-

isopropylaminoethanethiophosphate, 2-diphenylaminoethanethiophosphate and para-phenol-thiophosphate.

6. The skin and/or hair depigmentation composition of claim 1, wherein said thiophosphate derivative is selected from the group comprising 2-di-isopropylaminoethanethiophosphate, and 2-diphenylaminoethanethiophosphate.

7. The skin and/or hair depigmentation composition of any one of claims 1 to 7, wherein said skin and hair are a mammal skin and hair, preferably human skin and hair.

8. The skin and/or hair depigmentation composition of any one of claims 1 to 8, wherein said depigmentation composition is in a suitable form for topical application, selected from the group comprising a lotion, a cream, a gel, a solution, a spray, a patch, a cleanser, a powder, an ointment, a wax, a lipstick, a soap, a shampoo, a bath gel, a bath oil, a bath bubble, a hydroalcoholic solution, a suspension, a scrub, a saturated pad, a skin or hair conditioning agent; or in a suitable form for oral administration to human comprising a tablet, a capsule, a powder, a syrup, a gel, a suspension, an aquous or non-aquous solution; or in a suitable form for parenteral administration comprising an injectable solution (for intra-dermal, sub-cutaneous, intra- muscular or intra-venous injections), inhalation spray, suppository or transdermal patch.

9. The skin and/or hair depigmentation composition of any one of claims 1 to 9, wherein said composition further comprises a skin and/or hair benefit agent selected from the group comprising alpha-hydroxy acids, beta-hydroxy acids, polyhydroxy acids, nicotinamide, kojic acid, arbutin, deoxyarbutin, depigmenting oligopeptides, soybean extract, licorice extract, phyllanthus emblica extract, Bellis perennis extract, glabridin, polyphenol antioxidants, thiolic antioxidants, cysteamine hydrochloride, hydroquinone, methimazole, pyridines, t-butyl hydroquinone, Vitamin C derivatives, Vitamin E derivatives, Vitamin B derivatives, dioic acids, retinoids, 4-substituted resorcinol derivatives, tranexamic acid or its derivatives, corticosteroids and mixtures thereof.

10. A cosmetic composition comprising the skin and/or hair depigmentation composition of any one of claims 1 to 9for preventing and/or reducing pigmentation of normal skin and/or normal hair.

11. A skin depigmentation composition of any one of claims 1 to 9 for use in a method for preventing and/or reducing skin pigmentation in non-cosmetic pigmentation disorders related to an abnormal excessive production of melanin and/or abnormal increased number of melanocytes.

12. The skin depigmentation composition for use in a method for preventing and/or reducing skin pigmentation disorders of claim 11, wherein said non-cosmetic pigmentation disorders are selected from the group comprising hyperpigmentation, melasma, postinflammatory hyperpigmentation, drug induced hyperpigmentation, light induced hyperpigmentation and chemical induced hyperpigmentation.

13. A method for preventing and/or reducing pigmentation of normal skin and/or hair, comprising topically applying the cosmetic composition of claim 10 to the skin and/or hair of the subject in need thereof.