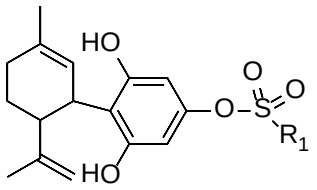
WHAT IS CLAIMED IS:

1. A compound of Formula (I):



(I)

R_1 represents a hydrogen atom, -OR^c, -NR^c_2, fluoro-substituted-(C_1-C_{20})-alkyl, a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a (C_6-C_{14})-aryl group, or a (C_5-C_{14})-heteroaryl group, wherein the latter 6 groups are each optionally substituted with one or more halogen atoms, -(C_1-C_{20})-alkyl, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, -OR^d, or –NR^d_2, wherein R^c and R^d are independently or simultaneously hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl;

and any stereoisomers or acceptable salts thereof.

2. The compound of Formula (I) of claim 1, wherein R_1 represents a hydrogen atom, fluoro-substituted-(C_1-C_{20})-alkyl, a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a (C_6-C_{14})-aryl group, a (C_5-C_{14})-heteroaryl group, wherein the latter 6 groups are each optionally substituted with one or more halogen atoms, a -(C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, -OR^d, or –NR^d_2, wherein R^c and R^d are independently or simultaneously hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl.

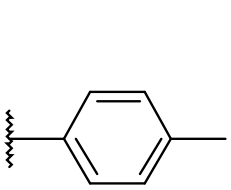
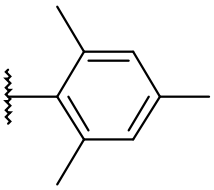
3. The compound of Formula (I) of claim 1 or 2, wherein R_1 represents a hydrogen atom, fluoro-substituted-(C_1-C_{10})-alkyl, a (C_1-C_{10})-alkyl group, a (C_2-C_{10})-alkenyl group, a (C_2-C_{10})-alkynyl group, a (C_3-C_{10})-cycloalkyl group, a (C_6-C_{10})-aryl group, a (C_5-C_{10})-heteroaryl group, wherein the latter 6 groups are each optionally

substituted with one or more halogen atoms (F, Cl, Br or I), -(C_1-C_{20})-alkyl, a (C_2-C_{20})-alkenyl group,or a (C_2-C_{20})-alkynyl group.

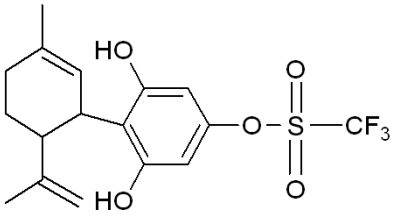
4. The compound of Formula (I) of any one of claims 1 to 3, wherein R_1 represents a hydrogen atom, fluoro-substituted-(C_1-C_6)-alkyl, a (C_1-C_6)-alkyl group, a (C_2-C_6)-alkenyl group, a (C_2-C_6)-alkynyl group, a (C_3-C_6)-cycloalkyl group, a (C_6)-aryl group, a (C_5-C_6)-heteroaryl group, wherein the latter 6 groups are each optionally substituted with one or more halogen atoms, or -(C_1-C_{20})-alkyl.

5. The compound of Formula (I) of any one of claims 1 to 4, wherein R_1 represents a hydrogen atom, fluoro-substituted-(C_1-C_6)-alkyl, a (C_1-C_6)-alkyl group, or a phenyl group, wherein the latter 2 groups are each optionally substituted with one or more halogen atoms ~~(F, Cl, Br or I)~~, or -(C_1-C_{10})-alkyl.

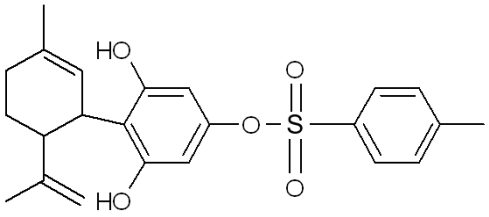
6. The compound of Formula (I) of claim 5, wherein the one or more halogen atoms is F, Cl, Br or I.

~~6~~7. The compound of Formula (I) of any one of claims 1 to ~~5~~6, wherein R_1 represents a hydrogen atom, -CF_3,  or .

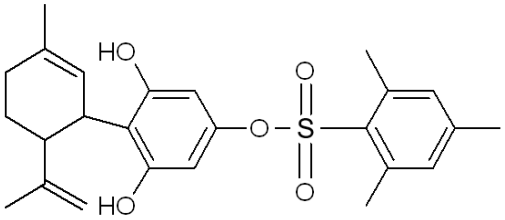
~~7~~8. The compound of Formula (I) of any one of claims 1 to ~~6~~7, wherein the compound of Formula (I) is



,

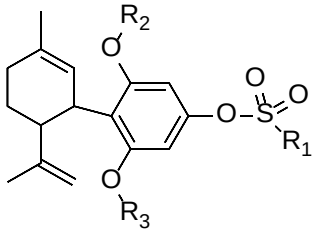


or



.

~~89~~. A compound of Formula (II):



(II)

wherein R_1 is as defined in any one of claims 1 to ~~7~~8;

R_2 and R_3 independently or simultaneously represent a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a –Si[(C_1-C_{20})-alkyl]$_3$ group, a (C_6-C_{14})-aryl group, or a (C_5-C_{14})-heteroaryl group, or an acyl group –C(=O)-R', wherein R' is a (C_1-C_{20})-alkyl group, wherein each group is each optionally substituted with one or more halogen atoms (F, Cl, Br or I), a -(C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, -OR^d, or –NR^d_2, wherein R^d is hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl, and

wherein one or more of the carbon atoms in the alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl or acyl groups of R_2 and/or R_3 is optionally replaced with a heteroatom selected from the group consisting of O, S, N, P and Si, which, where possible, is optionally substituted with one or more halogen ~~(F, Cl, Br or I)~~, or a -(C_1-C_{20})-alkyl groups;

and any stereoisomers or acceptable salts thereof.

10. The compound of Formula (II) of claim 9, wherein the one or more halogen is F, Cl, Br or I.

~~9~~11. The compound of Formula (II) of claim ~~8~~9, wherein R_2 and R_3 independently or simultaneously represent a (C_1-C_{10})-alkyl group, a (C_2-C_{10})-alkenyl group, a (C_2-C_{10})-alkynyl group, a (C_3-C_{10})-cycloalkyl group, a –Si[(C_1-C_{10})-alkyl]$_3$ group, a (C_6-C_{10})-aryl group, or a (C_5-C_{10})-heteroaryl group, or an acyl group –C(=O)-R', wherein R' is a (C_1-C_{10})-alkyl group, wherein each group is each optionally substituted with one or more halogen atoms (F, Cl, Br or I), a -(C_1-C_{10})-alkyl group, a (C_2-C_{10})-alkenyl group, a (C_2-C_{10})-alkynyl group, -OR^d, or –NR^d_2, wherein R^d is hydrogen, (C_1-C_{10})-alkyl, (C_2-C_{10})-alkenyl, or (C_2-C_{10})-alkynyl, and

wherein one or more of the carbon atoms in the alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl or acyl groups of R_2 and/or R_3 is optionally replaced with a heteroatom selected from the group consisting of O, S, N, P and Si, which, where possible, is optionally substituted with one or more halogen ~~(F, Cl, Br or I)~~, or a -(C_1-C_{10})-alkyl groups.

12. The compound of Formula (II) of claim 11, wherein with one or more halogen is F, Cl, Br or I.

~~10~~13. The compound of Formula (II) of claim ~~8~~ 9 or ~~9~~11, wherein R_2 and R_3 independently or simultaneously represent a (C_1-C_6)-alkyl group, a (C_2-C_6)-alkenyl group, a (C_2-C_6)-alkynyl group, a (C_3-C_6)-cycloalkyl group, a –Si[(C_1-C_6)-alkyl]$_3$ group, a phenyl group, or a (C_5-C_6)-heteroaryl group, or an acyl group –C(=O)-R', wherein R' is a (C_1-C_6)-alkyl group, wherein each group is each optionally substituted with one or more halogen atoms (F, Cl, Br or I), a -(C_1-C_6)-alkyl group, a (C_2-C_6)-alkenyl group, a (C_2-C_6)-alkynyl group, -OR^d, or –NR^d_2, wherein R^d is hydrogen, (C_1-C_6)-alkyl, (C_2-C_6)-alkenyl, or (C_2-C_6)-alkynyl, and

wherein one or more of the carbon atoms in the alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl or acyl groups of R_2 and/or R_3 is optionally replaced with a heteroatom

selected from the group consisting of O, S, N, P and Si, which, where possible, is optionally substituted with one or more halogen ~~(F, Cl, Br or I)~~, or a -(C_1-C_6)-alkyl groups.

14. The compound of Formula (II) of claim 13, wherein with one or more halogen is F, Cl, Br or I.

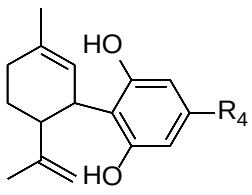
~~11~~15. The compound of Formula (II) of any one of claims ~~8~~ 9 to ~~10~~14, wherein R_2 and R_3 independently or simultaneously represent a (C_1-C_6)-alkyl group, a –Si[(C_1-C_6)-alkyl]$_3$ group, or a phenyl group.

~~12~~16. The compound of Formula (II) of any one of claims ~~8~~ 9 to ~~11~~15, wherein R_2 and R_3 independently or simultaneously represent a –Si[(C_1-C_6)-alkyl]$_3$ group.

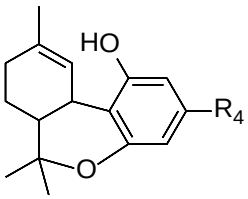
~~13~~17. The compound of Formula (II) of any one of claims ~~8~~ 9 to ~~12~~16, wherein R_2 and R_3 independently or simultaneously represent a –Si[(C_1-C_3)-alkyl]$_3$ group.

~~14~~18. The compound of Formula (II) of any one of claims ~~8~~ 9 to ~~13~~17, wherein R_2 and R_3 represent a –Si(CH_3)$_3$ group.

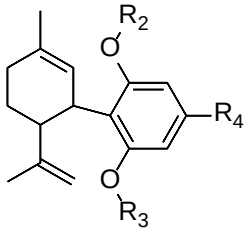
~~15~~19. A process for the preparation of compounds of Formula (III), Formula (IV), Formula (V) or Formula (VI):



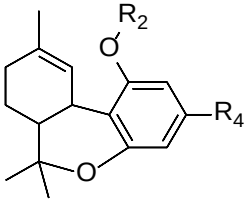
(III)



(IV)



(V)



(VI)

wherein R_2 and R_3 are as defined in any one of claims 1 to ~~14~~18,

the process comprising reacting a compound of Formula (I) or Formula (II) with:

(i) a boron containing compound such as R_4-$B(OH)_2$, R_4-$B(OR)_2$ or R_4-BF_3K, where R is H, a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, or a (C_6-C_{14})-aryl group;

(ii) a Grignard compound such as R_4-MgX; or

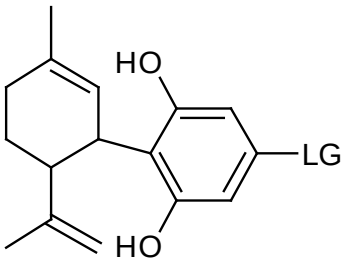
(iii) a zinc compound such as R_4-ZnX.

wherein X is a halogen atom;

R_4 represents a hydrogen atom, a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a (C_6-C_{14})-aryl group, wherein the latter 5 groups are each optionally substituted with one or more halogen atoms (F, Cl, Br or I), -(C_1-C_{20})-alkyl, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, (C_6-C_{14})-aryl group, -OR^d, or –NR^d_2, wherein R^d is hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl.

~~16~~20. The process of claim ~~15~~19, wherein a compound of Formula (III), Formula (IV), Formula (V) or Formula (VI) is a pure isomer or a mixture of isomers.

~~17~~21. A compound of Formula (IA)



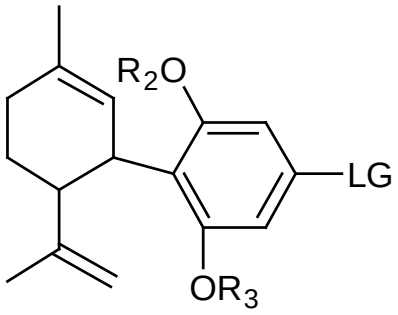
(IA),

wherein LG is a leaving group.

~~18~~22. The compound of Formula (IA) of claim 21, wherein the leaving group is a sulphonate, halide, or boronate group.

~~19~~23. The compound of Formula (IA) of claim 21, wherein the leaving group is a triflate group, tosylate group or mesylate group.

~~20~~24. A compound of Formula (IIA)



(IIA),

wherein LG is a leaving group;

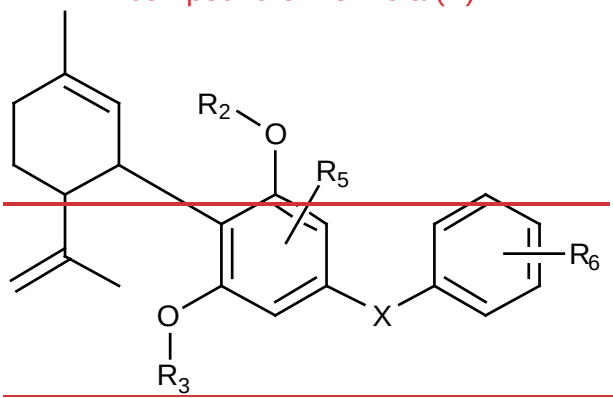
and R_2 and R_3 are as defined in any one of claims ~~8~~ 9 to ~~15~~19.

~~21~~25. The compound of Formula (IIA) of claim ~~20~~24, wherein LG is

(i) an anionic group such as sulphonates, halides or ~~-~~boronates;

(ii) MX_n wherein M is Li, Mg, Zn, Sn, B, or Si; X is halo, OH, -OR, alkyl, aryl and n is 0 to 3.

~~22. A compound of Formula (X)~~



~~(X),~~

~~R_2 and R_3 independently or simultaneously represent a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a -Si[(C_1-C_{20})-alkyl]$_3$ group, a (C_6-C_{14})-aryl group, or a (C_5-C_{14})-heteroaryl group, or an acyl group -C(=O)-R', wherein R' is a (C_1-C_{20})-alkyl group, wherein each group is each~~

optionally substituted with one or more halogen atoms (F, Cl, Br or I), a -(C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, -OR^d, or -NR^d_2, wherein R^c and R^d are independently or simultaneously hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl, and

wherein one or more of the carbon atoms in the alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heteroaryl or acyl groups of R_2 and/or R_3 is optionally replaced with a heteroatom selected from the group consisting of O, S, N, P and Si, which, where possible, is optionally substituted with one or more halogen (F, Cl, Br or I), or a -(C_1-C_{20})-alkyl groups;

R_5 and R_6 are one or more substitutents which are hydrogen, halo, -OR^c, -NR^c_2, carboxylates (-COOR, where R is H or (C_1-C_6)-alkyl), phosphates, sulfates, a (C_1-C_{20})-alkyl group, a (C_2-C_{20})-alkenyl group, a (C_2-C_{20})-alkynyl group, a (C_3-C_{20})-cycloalkyl group, a (C_6-C_{14})-aryl group, or a (C_5-C_{14})-heteroaryl group, wherein R^c and R^d are independently or simultaneously hydrogen, (C_1-C_{20})-alkyl, (C_2-C_{20})-alkenyl, or (C_2-C_{20})-alkynyl;

X is (C_1-C_{10}-alkylene) or (C_2-C_{10}-alkenylene);

and all stereoisomers, and salts thereof.