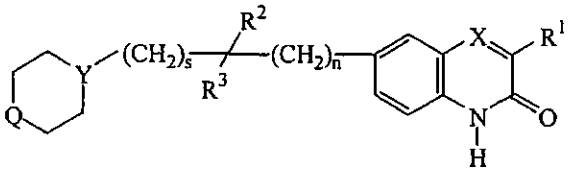
CLAIMS

1. A compound of formula (I),



(I)

the *N*-oxide forms, the addition salts and the stereo-chemically isomeric forms thereof, wherein

n is 0 or 1;
s is 0 or 1;

X is –N= or -CR^4=, wherein R^4 is hydrogen or taken together with R^1 may form a bivalent radical of formula -CH=CH-CH=CH-;

Y is –N< or –CH<;

Q is –NH-, -O-, -C(O)-, -CH_2-CH_2- or -CHR^5-,
wherein R^5 is hydrogen, hydroxy, C_{1-6}alkyl, arylC_{1-6}alkyl, C_{1-6}alkyloxycarbonyl, C_{1-6}alkyloxyC_{1-6}alkylamino or haloindazolyl;

R^1 is C_{1-6}alkyl or thienyl;

R^2 is hydrogen or

R^3 is hydrogen, C_{1-6}alkyl or a radical selected from

- NR^6R^7	(a-1),
-O-H	(a-2),
-O-R^8	(a-3),
-S- R^9	(a-4), or
—C≡N	(a-5),

wherein

R^6 is –CHO, C_{1-6}alkyl, hydroxyC_{1-6}alkyl, C_{1-6}alkylcarbonyl, di(C_{1-6}alkyl)aminoC_{1-6}alkyl, C_{1-6}alkylcarbonylaminoC_{1-6}alkyl,

piperidinylC_{1-6}alkyl, piperidinylC_{1-6}alkylaminocarbonyl, C_{1-6}alkyloxy, C_{1-6}alkyloxyC_{1-6}alkyl, thienylC_{1-6}alkyl, pyrrolylC_{1-6}alkyl, arylC_{1-6}alkylpiperidinyl, arylcarbonylC_{1-6}alkyl, arylcarbonylpiperidinylC_{1-6}alkyl, haloindozolylpiperidinylC_{1-6}alkyl, or arylC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^7 is hydrogen or C_{1-6}alkyl;

R^8 is C_{1-6}alkyl, C_{1-6}alkylcarbonyl or di(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^9 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl;

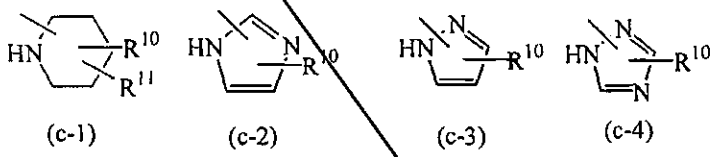
or R^3 is a group of formula

$-(CH_2)_t$-Z- (b-1),

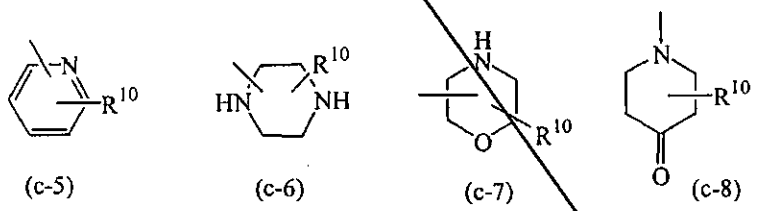
wherein

t is 0, 1 or 2;

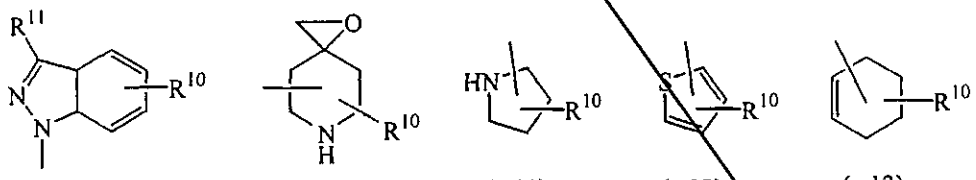
Z is a heterocyclic ring system selected from



(c-1) (c-2) (c-3) (c-4)

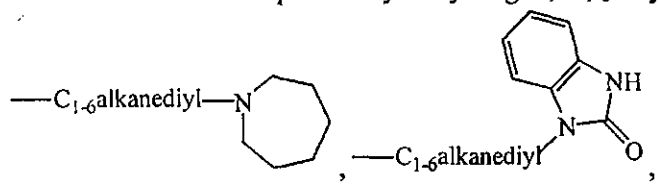


(c-5) (c-6) (c-7) (c-8)



(c-9) (c-10) (c-11) (c-12) (c-13)

wherein each R^{10} independently is hydrogen, C_{1-6}alkyl, aminocarbonyl, hydroxy,



C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, di(phenylC_{2-6}alkenyl), piperidinylC_{1-6}alkyl, C_{3-10}cycloalkyl, C_{3-10}cycloalkylC_{1-6}alkyl, aryloxy(hydroxy)C_{1-6}alkyl, haloindazolyl, arylC_{1-6}alkyl, arylC_{2-6}alkenyl, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino;

each R^{11} independently is hydrogen, hydroxy, piperidinyl or aryl;

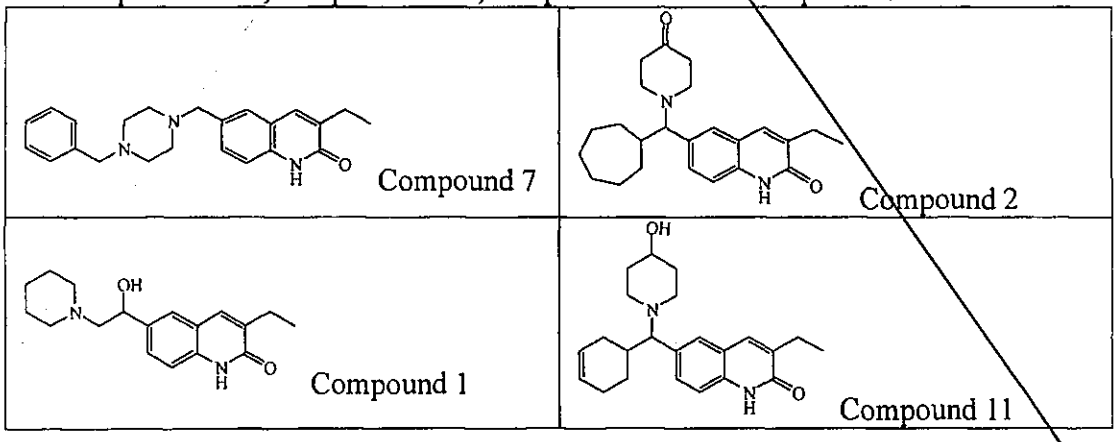
aryl is phenyl or phenyl substituted with halo, C_{1-6}alkyl or C_{1-6}alkyloxy;

with the proviso that 6-(cyclohexyl-1*H*-imidazol-1-ylmethyl)-3-methyl-2(1*H*)-quinoxalinone is not included.

2. A compound as claimed in claim 1 wherein X is –N= or -CH=; R^1 is C_{1-6}alkyl; R^3 is hydrogen, C_{1-6}alkyl, a radical selected from (a-1), (a-2), (a-3) or (a-4) or a group of formula (b-1); R^6 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl or C_{1-6}alkyloxyC_{1-6}alkyl; R^7 is hydrogen; R^8 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl; t is 0 or 2; Z is a heterocyclic ring system selected from (c-1), (c-5), (c-6), (c-8), (c-10), (c-12) or (c-13); each R^{10} independently is hydrogen, C_{1-6}alkyl, hydroxy, C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino; each R^{11} independently is hydrogen or hydroxy; and aryl is phenyl.

3. A compound as claimed in claim 1 and 2 wherein n is 0; X is CH; Q is –NH-, -CH_2-CH_2- or -CHR^5-, wherein R^5 is hydrogen, hydroxy, or arylC_{1-6}alkyl; R^1 is C_{1-6}alkyl; R^2 is hydrogen; R^3 is hydrogen, hydroxy or a group of formula (b-1); t is 0; Z is a heterocyclic ring system selected from (c-8) or (c-13); each R^{10} independently is hydrogen; and aryl is phenyl.

4. A compound as claimed in claim 1, 2 and 3 wherein the compound is selected from compound No 7, compound No 2, compound No 1 and compound No 11.



5. A compound as claimed in claim 1 wherein R^3 is a radical selected from (a-1), (a-2), (a-3) or (a-4).

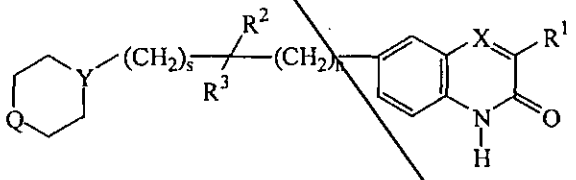
6. A compound as claimed in claim 1 wherein Z is a heterocyclic ring system other than the heterocyclic ring system of formula (c-2) or (c-4).

7. A compound as claimed in claim 6 wherein Z is a heterocyclic ring system selected from (c-1), (c-5), (c-6), (c-8), (c-10), (c-12) or (c-13).

8. A compound as claimed in any one of claims 1 to 7 for use as a medicine.

9. A pharmaceutical composition comprising pharmaceutically acceptable carriers and as an active ingredient a therapeutically effective amount of a compound as claimed in any one of claims 1 to 7.

10. Use of a compound for the manufacture of a medicament for chemosensitization or radiosensitization, wherein said compound is a compound of formula (I)



(I)

the *N*-oxide forms, the pharmaceutically acceptable addition salts and the stereochemically isomeric forms thereof, wherein

n is 0 or 1;
s is 0 or 1;

X is –N= or -CR^4=, wherein R^4 is hydrogen or taken together with R^1 may form a bivalent radical of formula -CH=CH-CH=CH-;

Y is –N< or –CH<;

Q is –NH-, -O-, -C(O)-, -CH_2-CH_2- or -CHR^5-,
wherein R^5 is hydrogen, hydroxy, C_{1-6}alkyl, arylC_{1-6}alkyl, C_{1-6}alkyloxycarbonyl, C_{1-6}alkyloxyC_{1-6}alkylamino or haloindazolyl;

R^1 is C_{1-6}alkyl or thienyl;

R^2 is hydrogen or taken together with R^3 may form =O;

R^3 is hydrogen, C_{1-6}alkyl or a radical selected from

$-NR^6R^7$ (a-1),

-O-H (a-2),

$-O-R^8$ (a-3),

$-S-R^9$ (a-4), or

—C≡N (a-5),

wherein

R^6 is –CHO, C_{1-6}alkyl, hydroxyC_{1-6}alkyl, C_{1-6}alkylcarbonyl, di(C_{1-6}alkyl)aminoC_{1-6}alkyl, C_{1-6}alkylcarbonylaminoC_{1-6}alkyl, piperidinylC_{1-6}alkyl, piperidinylC_{1-6}alkylaminocarbonyl, C_{1-6}alkyloxy, C_{1-6}alkyloxyC_{1-6}alkyl, thienylC_{1-6}alkyl, pyrrolylC_{1-6}alkyl, arylC_{1-6}alkylpiperidinyl, arylcarbonylC_{1-6}alkyl, arylcarbonylpiperidinylC_{1-6}alkyl, haloindozolylpiperidinylC_{1-6}alkyl, or arylC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^7 is hydrogen or C_{1-6}alkyl;

R^8 is C_{1-6}alkyl, C_{1-6}alkylcarbonyl or di(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^9 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl;

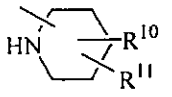
or R^3 is a group of formula

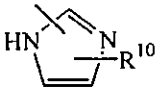
$-(CH_2)_t-Z-$ (b-1),

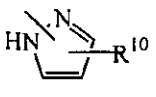
wherein

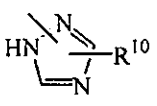
t is 0, 1 or 2;

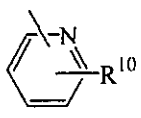
Z is a heterocyclic ring system selected from

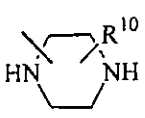

(c-1)

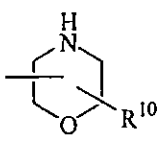

(c-2)

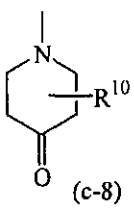

(c-3)

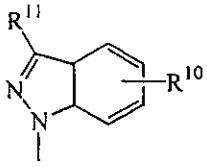

(c-4)

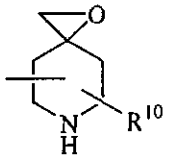

(c-5)

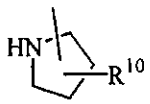

(c-6)

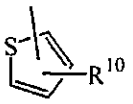

(c-7)

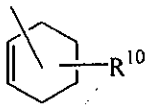

(c-8)


(c-9)

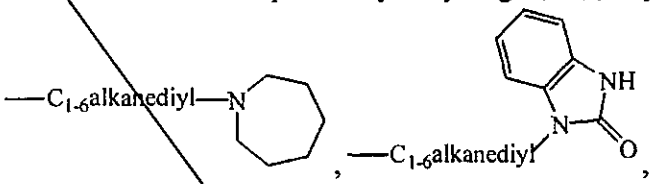

(c-10)


(c-11)


(c-12)


(c-13)

wherein each R^{10} independently is hydrogen, C_{1-6}alkyl, aminocarbonyl, hydroxy,



C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, di(phenylC_{2-6}alkenyl), piperidinylC_{1-6}alkyl, C_{3-10}cycloalkyl, C_{3-10}cycloalkylC_{1-6}alkyl, aryloxy(hydroxy)C_{1-6}alkyl, haloindazolyl, arylC_{1-6}alkyl, arylC_{2-6}alkenyl, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino;

each R^{11} independently is hydrogen, hydroxy, piperidinyl or aryl;

aryl is phenyl or phenyl substituted with halo, C_{1-6}alkyl or C_{1-6}alkyloxy.

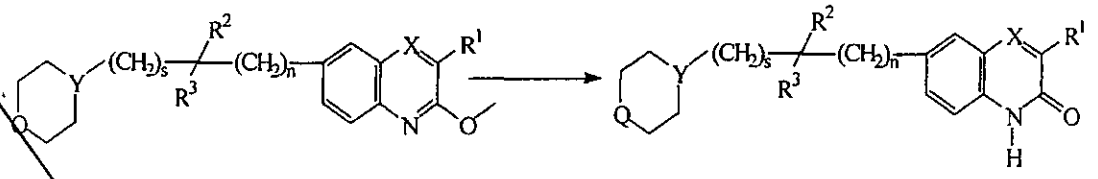
11. Use as claimed in claim 10 wherein the medicament is for chemosensitization.

12. Use as claimed in claim 10 wherein the medicament is for radiosensitization.

13. A combination of a compound as claimed in any one of claims 1 to 7 with a chemotherapeutic agent.

14. A process for preparing a compound as claimed in claim 1, characterized by

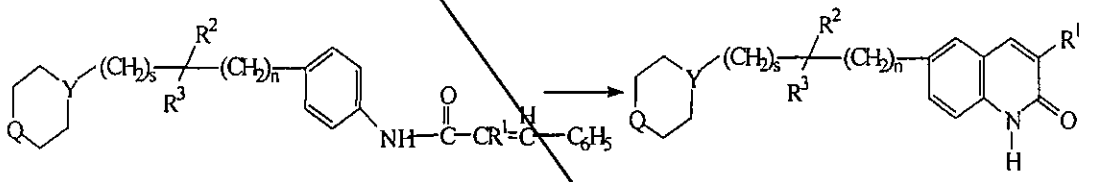
a) the hydrolysis of intermediates of formula (VIII), according to art-known methods, by submitting the intermediates of formula (VIII) to appropriate reagents, such as, tinchloride, acetic acid and hydrochloric acid, in the presence of a reaction inert solvent, e.g. tetrahydrofuran.



(VIII) (I)

with R^1 to R^3, s, n, X, Y and Q as defined in claim 1;

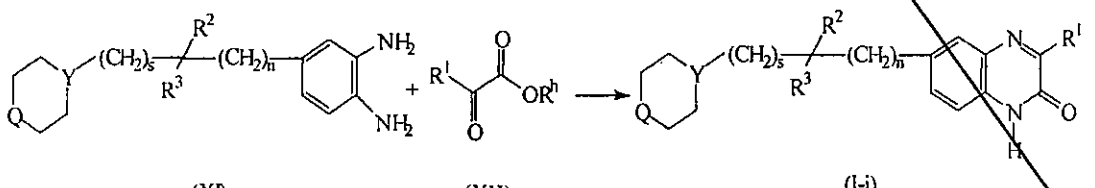
b) the cyclization of intermediates of formula (X), according to art-known cyclizing procedures into compounds of formula (I) wherein X is CH herein referred to as compounds of formula (I-j), preferably in the presence of a suitable Lewis Acid, e.g. aluminum chloride either neat or in a suitable solvent such as, for example, an aromatic hydrocarbon, e.g. benzene, chlorobenzene, methylbenzene and the like; halogenated hydrocarbons, e.g. trichloromethane, tetrachloromethane and the like; an ether, e.g. tetrahydrofuran, 1,4-dioxane and the like or mixtures of such solvents.



(X) (I-j)

with R^1 to R^3, s, n, Y and Q as defined in claim 1;

c) the condensation of an appropriate ortho-benzenediamine of formula (XI) with an ester of formula (XII) wherein R^h is C_{1-6}alkyl, into compounds of formula (I), wherein X is N, herein referred to as compounds of formula (I-i), in the presence of a carboxylic acid, e.g. acetic acid and the like, a mineral acid such as, for example hydrochloric acid, sulfuric acid, or a sulfonic acid such as, for example, methanesulfonic acid, benzenesulfonic acid, 4-methylbenzenesulfonic acid and the like.



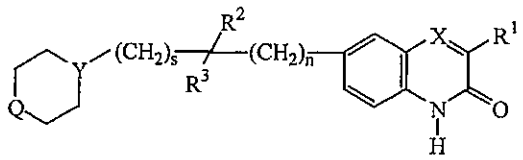
(XI) (XII) (I-i)

with R^1 to R^3, s, n, Y and Q as defined in claim 1.

15. Use of a compound as claimed in any one of claims 5 to 7 for the manufacture of a medicament for the treatment of cancer.

CLAIMS

1. A compound of formula (I),



(I)

an *N*-oxide form, an addition salt or a stereo-chemically isomeric form thereof, wherein

n is 0 or 1;
s is 0 or 1;

X is –N= or -CR^4=, wherein R^4 is hydrogen or taken together with R^1 may form a bivalent radical of formula -CH=CH-CH=CH-;

Y is –N< or –CH<;

Q is –NH-, -O-, -C(O)-, -CH_2-CH_2- or -CHR^5-,
wherein R^5 is hydrogen, hydroxy, C_{1-6}alkyl, arylC_{1-6}alkyl, C_{1-6}alkyloxycarbonyl, C_{1-6}alkyloxyC_{1-6}alkylamino or haloindazolyl;

R^1 is C_{1-6}alkyl or thienyl;

R^2 is hydrogen;

R^3 is hydrogen, C_{1-6}alkyl or a radical selected from

- NR^6R^7	(a-1),
-O-H	(a-2),
-O-R^8	(a-3),
-S- R^9	(a-4), and
—C≡N	(a-5),

wherein
R^6 is –CHO, C_{1-6}alkyl, hydroxyC_{1-6}alkyl, C_{1-6}alkylcarbonyl, di(C_{1-6}alkyl)aminoC_{1-6}alkyl, C_{1-6}alkylcarbonylaminoC_{1-6}alkyl, piperidinylC_{1-6}alkyl, piperidinylC_{1-6}alkylaminocarbonyl, C_{1-6}alkyloxy, C_{1-6}alkyloxyC_{1-6}alkyl, thienylC_{1-6}alkyl, pyrrolylC_{1-6}alkyl, arylC_{1-6}alkylpiperidinyl, arylcarbonylC_{1-6}alkyl, arylcarbonylpiperidinylC_{1-6}alkyl,

haloindozolylpiperidinylC_{1-6}alkyl, or arylC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^7 is hydrogen or C_{1-6}alkyl;

R^8 is C_{1-6}alkyl, C_{1-6}alkylcarbonyl or di(C_{1-6}alkyl)aminoC_{1-6}alkyl; and

R^9 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl;

or R^3 is a group of formula

$-(CH_2)_t$-Z- (b-1),

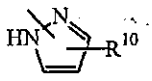
wherein

t is 0, 1 or 2;

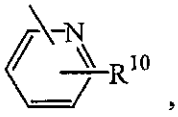
Z is a heterocyclic ring system of formula



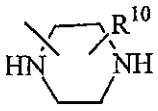
(c-1)



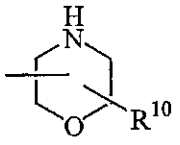
(c-3)



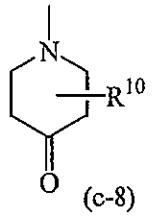
(c-5)



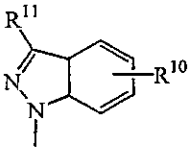
(c-6)



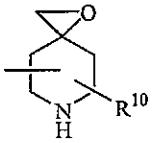
(c-7)



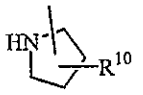
(c-8)



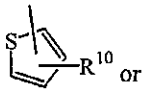
(c-9)



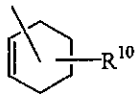
(c-10)



(c-11)

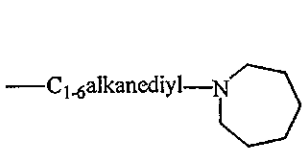


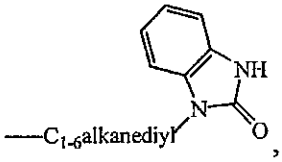
(c-12)



(c-13)

wherein each R^{10} independently is hydrogen, C_{1-6}alkyl, aminocarbonyl, hydroxy,





C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, di(phenylC_{2-6}alkenyl), piperidinylC_{1-6}alkyl, C_{3-10}cycloalkyl, C_{3-10}cycloalkylC_{1-6}alkyl, aryloxy(hydroxy)C_{1-6}alkyl, haloindazolyl, arylC_{1-6}alkyl, arylC_{2-6}alkenyl, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino;

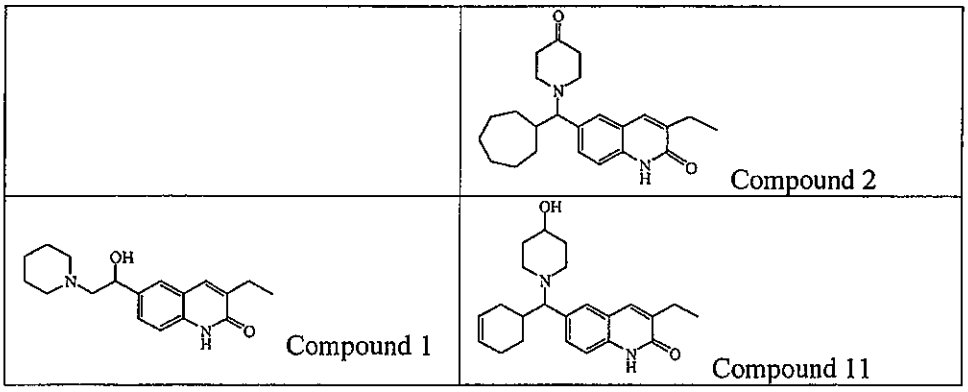
each R^{11} independently is hydrogen, hydroxy, piperidinyl or aryl;

aryl is phenyl or phenyl substituted with halo, C_{1-6}alkyl or C_{1-6}alkyloxy.

2. The compound according to claim 1 wherein X is –N= or -CH=; R^1 is C_{1-6}alkyl; R^3 is hydrogen, C_{1-6}alkyl, a radical selected from (a-1), (a-2), (a-3) and (a-4), or a group of formula (b-1); R^6 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl or C_{1-6}alkyloxyC_{1-6}alkyl; R^7 is hydrogen; R^8 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl; t is 0 or 2; Z is a heterocyclic ring system of formula (c-1), (c-5), (c-6), (c-8), (c-10), (c-12) or (c-13); each R^{10} independently is hydrogen, C_{1-6}alkyl, hydroxy, C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino; each R^{11} independently is hydrogen or hydroxy; and aryl is phenyl.

3. The compound according to claim 1 or 2 wherein n is 0; X is CH; Q is –NH-, $-CH_2-CH_2-$ or $-CHR^5-$, wherein R^5 is hydrogen, hydroxy, or arylC_{1-6}alkyl; R^1 is C_{1-6}alkyl; R^3 is hydrogen, hydroxy or a group of formula (b-1); t is 0; Z is a heterocyclic ring system of formula (c-8) or (c-13); each R^{10} independently is hydrogen; and aryl is phenyl.

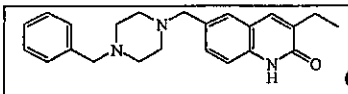
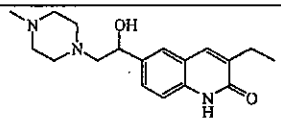
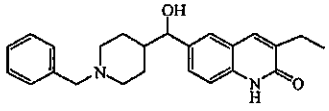
4. The compound according to any one of claims 1 to 3 wherein the compound is selected from compound 2, compound 1 and compound 11 as defined below



5. The compound according to claim 1, wherein R^3 is a radical selected from (a-1), (a-2), (a-3) and (a-4).

6. The compound according to claim 1, wherein Z is a heterocyclic ring system of formula (c-1), (c-5), (c-6), (c-8), (c-10), (c-12) or (c-13).

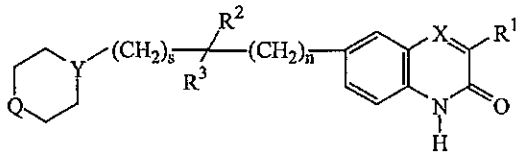
7. A compound selected from compound 7, compound 14 and compound 27 as defined below

 Compound 7	 Compound 14
 Compound 27	

8. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound according to any one of claims 1 to 7.

9. A process of preparing a pharmaceutical composition according to claim 8 wherein the pharmaceutically acceptable carriers and a compound according to any one of claims 1 to 7 are intimately mixed.

10. Use of a compound for the manufacture of a medicament for chemosensitization or radiosensitization, wherein the compound is a compound of formula (I)



(I)

an *N*-oxide form, a pharmaceutically acceptable addition salt or a stereo-chemical isomeric forms thereof, wherein

n is 0 or 1;
s is 0 or 1;

X is –N= or -CR^4=, wherein R^4 is hydrogen or taken together with R^1 may form a bivalent radical of formula -CH=CH-CH=CH-;

Y is –N< or –CH<;

Q is –NH-, -O-, -C(O)-, $-CH_2-CH_2-$ or $-CHR^5-$,
wherein R^5 is hydrogen, hydroxy, C_{1-6}alkyl, arylC_{1-6}alkyl, C_{1-6}alkyloxycarbonyl, C_{1-6}alkyloxyC_{1-6}alkylamino or haloindazolyl;

R^1 is C_{1-6}alkyl or thienyl;

R^2 is hydrogen or taken together with R^3 may form =O;

R^3 is hydrogen, C_{1-6}alkyl or a radical selected from

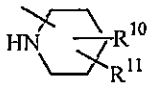
- NR^6R^7 (a-1),
- -O-H (a-2),
- $-O-R^8$ (a-3),
- $-S-R^9$ (a-4), and
- —C≡N (a-5), wherein

R^6 is –CHO, C_{1-6}alkyl, hydroxyC_{1-6}alkyl, C_{1-6}alkylcarbonyl, di(C_{1-6}alkyl)aminoC_{1-6}alkyl, C_{1-6}alkylcarbonylaminoC_{1-6}alkyl, piperidinylC_{1-6}alkyl, piperidinylC_{1-6}alkylaminocarbonyl, C_{1-6}alkyloxy, C_{1-6}alkyloxyC_{1-6}alkyl, thienylC_{1-6}alkyl, pyrrolylC_{1-6}alkyl, arylC_{1-6}alkylpiperidinyl, arylcarbonylC_{1-6}alkyl, arylcarbonylpiperidinylC_{1-6}alkyl, haloindozolylpiperidinylC_{1-6}alkyl, or arylC_{1-6}alkyl(C_{1-6}alkyl)aminoC_{1-6}alkyl; and
R^7 is hydrogen or C_{1-6}alkyl;
R^8 is C_{1-6}alkyl, C_{1-6}alkylcarbonyl or di(C_{1-6}alkyl)aminoC_{1-6}alkyl; and
R^9 is di(C_{1-6}alkyl)aminoC_{1-6}alkyl;

or R^3 is a group of formula

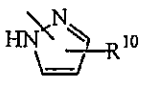
$-(CH_2)_t-Z-$ (b-1),

wherein
t is 0, 1 or 2;
Z is a heterocyclic ring system of formula

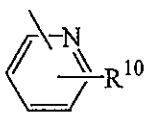


(c-1)

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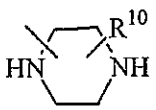


(c-3)



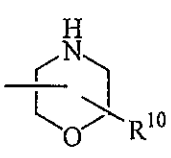
(c-5)

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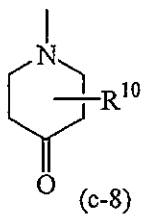
(c-6)

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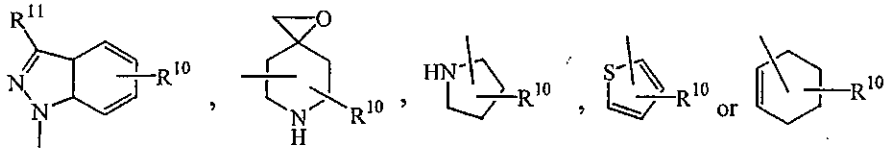
(c-7)

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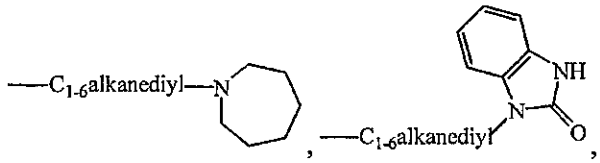
(c-8)

,



(c-9) (c-10) (c-11) (c-12) (c-13)

wherein each R^{10} independently is hydrogen, C_{1-6}alkyl, aminocarbonyl, hydroxy,



C_{1-6}alkyloxyC_{1-6}alkyl, C_{1-6}alkyloxyC_{1-6}alkylamino, di(phenylC_{2-6}alkenyl), piperidinylC_{1-6}alkyl, C_{3-10}cycloalkyl, C_{3-10}cycloalkylC_{1-6}alkyl, aryloxy(hydroxy)C_{1-6}alkyl, haloindazolyl, arylC_{1-6}alkyl, arylC_{2-6}alkenyl, morpholino, C_{1-6}alkylimidazolyl, or pyridinylC_{1-6}alkylamino;
each R^{11} independently is hydrogen, hydroxy, piperidinyl or aryl;
aryl is phenyl or phenyl substituted with halo, C_{1-6}alkyl or C_{1-6}alkyloxy.

11. Use according to claim 10 wherein the medicament is for chemosensitization.

12. Use according to claim 10 wherein the medicament is for radiosensitization.

13. A combination of a compound according to any one of claims 1 to 7 with a chemotherapeutic agent.

14. Use of a compound according to any one of claims 1 to 7 for the manufacture of a medicament for the treatment of cancer.