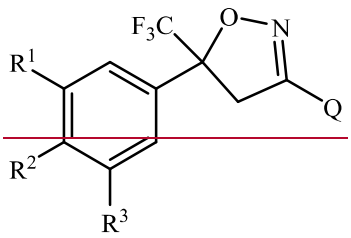
CLAIMS

What is claimed is:

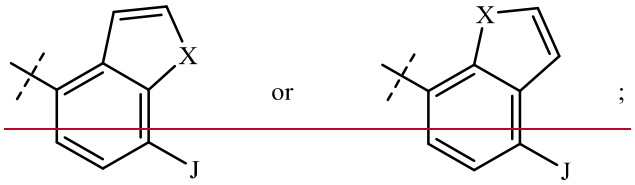
~~1. A Compound selected from Formula **1**,~~



1

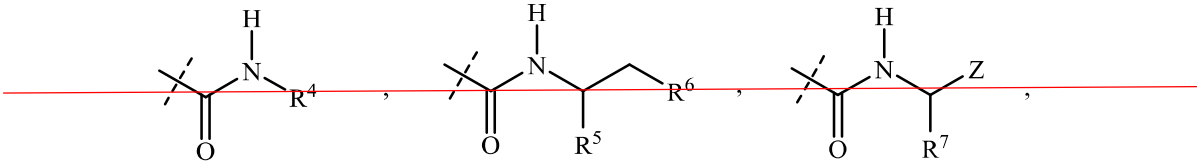
~~wherein~~

~~Q is~~

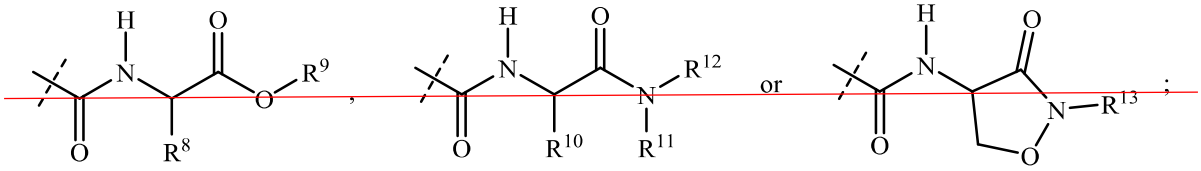


Q-1 Q-2

~~J is~~



J-1 J-2 J-3



J-4 J-5 J-6

~~R^1 is H, Cl or CF_3;~~

~~R^2 is H, F or Cl;~~

~~R^3 is Cl or CF_3;~~

~~X is O or S;~~

~~R^4 is H, methyl or CH_2CN;~~

~~R^5 is C_1-C_4 alkyl;~~

~~R^6 is OR^{14} or $S(O)_nR^{15}$;~~

~~R^7 is H or C_1-C_4 alkyl;~~

~~R^8 is H or C_1-C_4 alkyl;~~

~~R^9 is H; or C_1-C_4 alkyl, unsubstituted or substituted with substituents independently selected from halogen, cyano, OR^{16}, $S(O)_nR^{17}$ and CO_2R^{18};~~

~~R^{10} is C_1-C_4 alkyl;~~

~~R^{11} is H or C_1-C_4 alkyl;~~

~~R^{12} is H; or C_1-C_4 alkyl, unsubstituted or substituted with substituents independently selected from halogen, cyano, OR^{16}, $S(O)_nR^{17}$ and CO_2R^{18};~~

~~R^{13} is H, C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

~~R^{14} is H, C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

~~R^{15} is H, C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

~~each R^{16} is independently C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

~~each R^{17} is independently C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

~~each R^{18} is independently C_1-C_4 alkyl or C_1-C_4 haloalkyl;~~

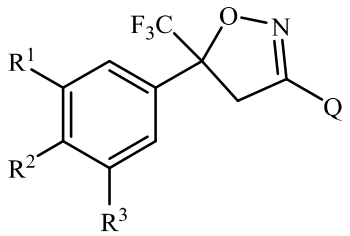
~~Z is pyridinyl, pyrimidinyl, pyrazinyl or pyridazinyl, each unsubstituted or substituted with R^{19};~~

~~each R^{19} is independently halogen, cyano, nitro, C_1-C_4 alkyl, C_1-C_4 haloalkyl, C_1-C_4 alkoxy, C_1-C_4 haloalkoxy, C_1-C_4 alkylthio, C_1-C_4 haloalkylthio, C_1-C_4 alkylsulfinyl, C_1-C_4 haloalkylsulfinyl, C_1-C_4 alkylsulfonyl, C_1-C_4 haloalkylsulfonyl, C_2-C_5 alkoxycarbonyl, C_2-C_5 alkylaminocarbonyl and C_3-C_5 dialkylaminocarbonyl; and~~

~~each n is independently 0, 1 or 2;~~

~~provided that (i) when J is J-3 and Z is 2-pyridinyl, then R^7 is C_1-C_2 alkyl; and (ii) when J is J-5, R^{10} is methyl, and R^{11} is H, then R^{12} is other than CH_2CF_3; or~~

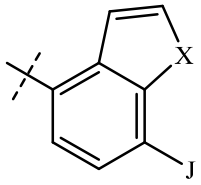
~~2~~1. A Compound selected from Formula **1'**,



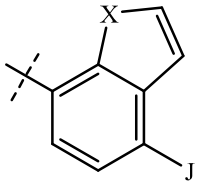
1'

wherein

Q is



or



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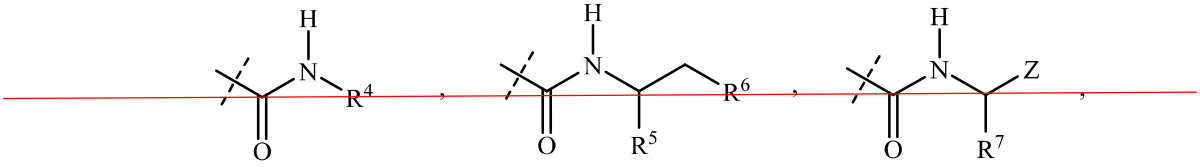
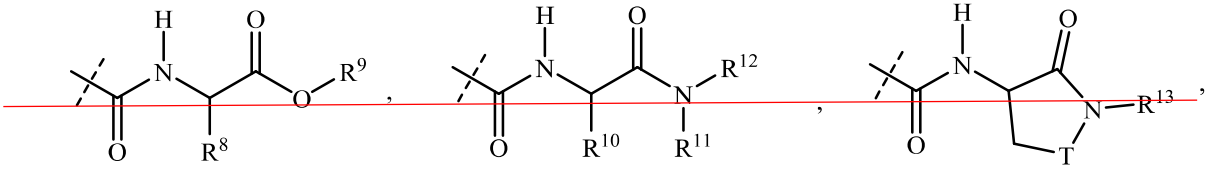
Q-1 Q-2

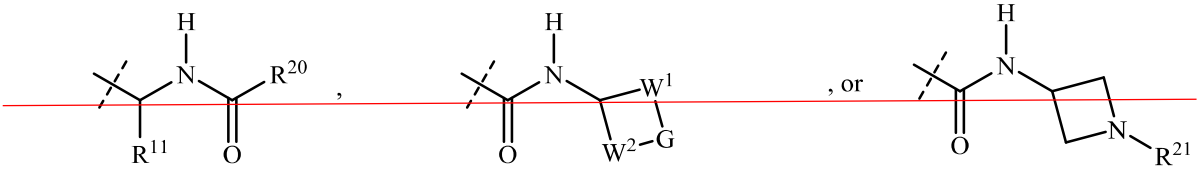
J is



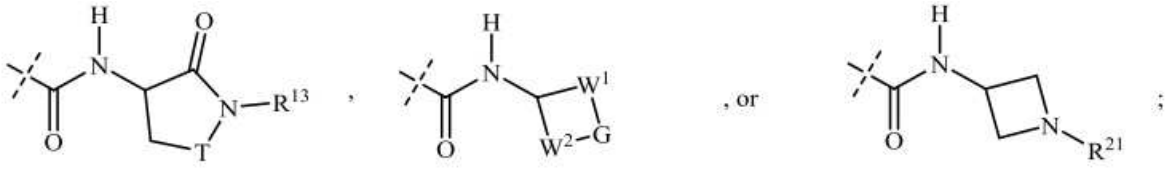
J-1 J-2 J-3



J-4 J-5 J-6



J-7 J-8 J-9



J-6 J-8 J-9

;

10

R^1 is H, Cl or CF_3;

R^2 is H, F or Cl;

R^3 is Cl or CF_3;

X is O or S;

~~R^4 is H; or C_1–C_4 alkyl substituted with one cyano, CH_2(cyclopropyl) substituted with one cyano, cyclopropyl unsubstituted or substituted with one cyano, or $C(O)NHR^{17}$; or is $CH=NOR^{14}$.~~

~~R^5 is C_1–C_4 alkyl;~~

~~R^6 is OR^{14} or $S(O)_nR^{15}$;~~

~~R^7 is H or C_1–C_4 alkyl;~~

~~R^8 is H or C_1–C_4 alkyl;~~

~~R^9 is H; or C_1–C_4 alkyl, unsubstituted or substituted with substituents independently selected from halogen, cyano, OR^{16}, $S(O)_nR^{17}$ and CO_2R^{18};~~

~~R^{10} is C_1–C_4 alkyl;~~

~~R^{11} is H or C_1–C_4 alkyl;~~

~~R^{12} is H; C_3-C_4 cycloalkyl or C_1–C_4 alkyl, unsubstituted or substituted with substituents independently selected from halogen, cyano, OR^{16}, $S(O)_nR^{17}$ and CO_2R^{18}; or is OR^{16}.~~

R^{13} is H, C_1–C_4 alkyl or C_1–C_4 haloalkyl;

T is O or CO;

~~R^{14} is H, C_1–C_4 alkyl or C_1–C_4 haloalkyl;~~

~~R^{15} is H, C_1–C_4 alkyl or C_1–C_4 haloalkyl;~~

~~each R^{16} is independently C_1–C_4 alkyl or C_1–C_4 haloalkyl;~~

~~each R^{17} is C_1–C_4 alkyl;~~

~~each R^{18} is independently C_1–C_4 alkyl or C_1–C_4 haloalkyl;~~

~~Z is pyridinyl, pyrimidinyl, pyrazinyl or pyridazinyl, each unsubstituted or substituted with R^{19};~~

~~each R^{19} is independently halogen, cyano, nitro, C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_1–C_4 alkoxy, C_1–C_4 haloalkoxy, C_1–C_4 alkylthio, C_1–C_4 haloalkylthio, C_1–C_4 alkylsulfinyl, C_1–C_4 haloalkylsulfinyl, C_1–C_4 alkylsulfonyl, C_1–C_4 haloalkylsulfonyl, C_2–C_5 alkoxycarbonyl, C_2–C_5 alkylaminocarbonyl and C_3–C_5 dialkylaminocarbonyl;~~

~~R^{20} is H, C_1–C_6 alkyl, C_3-C_6 cycloalkyl, C_4-C_8 cycloalkyl alkyl;or C_1-C_4 haloalkyl);~~

G is O or $S(O)_n$;

W^1 is C_1-C_3 alkylenyl;

W^2 is C_1-C_3 alkylenyl;

R^{21} is C_1-C_4 alkyl, or $S(O)_nR^{22}$;

R^{22} is fluoro, C_1–C_4 alkyl, C_1–C_4 haloalkyl, C_1–C_6 alkoxy, C_1–C_6 haloalkoxy,

amino or C_1–C_6 alkylamino;

each n is independently 0, 1 or 2~~;~~.

~~provided that (i) when J is J-3 and Z is 2-pyridinyl, then R^7 is C_1–C_2 alkyl; and (ii) when J is J-5, R^{10} is methyl, and R^{11} is H, then R^{12} is other than CH_2CF_3.~~

~~3~~2. The Compound of claim 1~~ or 2~~ wherein R^1 is H or Cl, R^2 is H or F and R^3 is Cl.

~~4. The Compound of any one of claims 1 to 3 wherein X is O or S.~~

~~5. The Compound of any one of claims 1 to 4 wherein Q is Q-1 or Q-2.~~

~~6. The Compound of any one of claims 1 to 5 wherein J is J-1, J-3, J-5, J-7 or J-8.~~

~~7. The Compound of any one of claims 1-6 wherein J is J-1.~~

~~8. The Compound of any one of claims 1-7 wherein R^4 is C_1–C_4 alkyl substituted with one cyano, or cyclopropyl unsubstituted or substituted with cyano.~~

~~9. The Compound of any one of claims 1-6 wherein J is J-3.~~

~~10. The Compound of any one of claims 1-6 and 9 wherein R^7 is H and Z is Z is pyridinyl, pyrimidinyl, pyrazinyl or pyridazinyl.~~

~~11. The Compound of any one of claims 1-6 wherein J is J-5.~~

~~12. The Compound of any one of claims 1-6 and 11 wherein R^{10} is C_1–C_4 alkyl.~~

~~13. The Compound of any one of claims 1-6 wherein J is J-7.~~

~~14. The Compound of any one of claims 1-6 and 13 wherein R^{11} is H.~~

~~15~~3. The Compound of any one of claims 1~~-6~~ or 2 wherein J is J-8.

~~16~~4. The Compound of any one of claims 1~~-6-3 and 15~~ wherein and G is $S(O)_n$ and n is 0, 1, or 2.

~~17~~5. The Compound of claim 1~~ or 2~~, wherein the Compound is at least one selected from 4-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]-n-(1,1-dioxido-3-thietanyl)-7-benzofurancarboxamide; ~~N-[[4-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]-7-benzofuranyl]methyl]acetamide; N-[[4-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thien-7-yl]methyl]acetamide; N-[(1S)-2-amino-1-methyl-2-oxoethyl]-7-[5-(3,5-dichlorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thiophene-4-carboxamide; 7-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]-N-(2-pyrimidinylmethyl)benzo[b]thiophene-4-carboxamide; N-[(1R)-2-amino-1-methyl-2-oxoethyl]-7-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thiophene-4-carboxamide; N-cyclopropyl-7-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thiophene-4-carboxamide;~~ or 7-[5-(3,5-dichloro-4-fluorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-

isoxazolyl]-N-(1,1-dioxido-3-thietanyl)benzo[b]thiophene-4-carboxamide; ~~N-cyclopropyl-7-[5-(3,5-dichlorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thiophene-4-carboxamide; or N-(1-cyanoethyl)-7-[5-(3,5-dichlorophenyl)-4,5-dihydro-5-(trifluoromethyl)-3-isoxazolyl]benzo[b]thiophene-4-carboxamide.~~

~~18~~6. A composition comprising a Compound of Claim 1 ~~or Claim 2~~ and at least one additional component selected from the group consisting of surfactants, solid diluents and liquid diluents said composition optionally further comprising at least one additional biologically active Compound or agent, selected from insecticides, fungicides, bactericides, nematocides or herbicides.

~~19~~7. A method for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biologically effective amount of a Compound of Claim 1~~ or Claim 2~~, wherein the environment is selected from a plant, animal, and seed, provided that the method is not method of medical treatment of a human or animal body by therapy.

~~20~~8. A treated seed comprising a Compound of Claim 1~~ or Claim 2~~ in an amount of from~~ about~~ 0.0001 to 1 % by weight of the seed before treatment.