Bactrocera aquilonis, Bactrocera bryoniae, Bactrocera frauenfeldi, Bactrocera jarvisi, Bactrocera kraussi, Bactrocera musae, Bactrocera neohumeralis, Bactrocera dorsalis, Bactrocera oleae, Bactrocera zonata and/or *Bactrocera cucurbitae.*

Bactrocera dorsalis is a species complex that includes the species *B. dorsalis, B. papayae, B. philippinensis, B. invadens*, and *B. carambolae*,

In a preferred embodiment the fruit fly may be a female fruit fly. In a particularly preferred embodiment the female fruit fly is a mated female fruit fly.

In a further aspect of the present invention there is provided a composition for attracting fruit flies including ethyl acetate, ethyl propionate, ethyl butyrate, hexylacetate, ethylhexanoate and (z)-3-hexenyl acetate.

In a further aspect of the present invention there is provided a composition for attracting fruit flies including ethyl acetate, ethyl propionate, ethyl butyrate, isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol.

In a further aspect of the present invention there is provided a composition for attracting fruit flies including ethyl acetate, ethyl propionate, ethyl butyrate, ethyl butyrate, hexylacetate, ethylhexanoate, (z)-3-hexenyl acetate, isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol.

In a further aspect of the present invention there is provided a device for trapping fruit flies, wherein said device includes:

a composition for attracting fruit flies including ethyl acetate, ethyl propionate, ethyl butyrate, hexyl acetate, ethyl hexanoate and (z)-3-hexenyl acetate; and

a Ladd trap modified to release the composition for attracting fruit flies.

In a further aspect of the present invention there is provided a device for trapping fruit flies, wherein said device includes:

a composition for attracting fruit flies including ethyl acetate, ethyl propionate, ethyl butyrate, isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol; and

a Ladd trap modified to release the composition for attracting fruit flies.

In a further aspect of the present invention there is provided a device for trapping fruit flies, wherein said device includes:

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A composition for attracting fruit flies, said composition including:

(i) a mixture of short chain esters consisting of two short chain ester compounds each containing 3 to 6 carbon atoms; and

(ii) a mixture of long chain esters consisting of two long chain ester compounds each containing 7 to 10 carbon atoms; or

(iii) a mixture of alcohols consisting of two alcohol compounds each containing from 1 to 8 carbon atoms;

wherein the composition substantially excludes any other short chain ester, any other long chain ester or any other alcohol;

and wherein said composition is a liquid and/or gas mixture.

2. The composition according to claim 1, wherein the short chain esters are selected from ethyl acetate, ethyl propionate and ethyl butyrate.

3. The composition according to claim 1 or claim 2, wherein the long chain esters are selected from hexyl acetate, ethyl hexanoate and (z)-3-hexenyl acetate.

4. The composition according to claim 1 or claim 2, wherein the alcohols are produced by a yeast species.

5. The composition according to claim 4, wherein the alcohols are produced by a yeast species selected from *Pichia kluyveri*, *Pichia kudriavzevii*, *Pichia terricola*, *Hanseniaspora uvarum*, *Hanseniaspora opuntiae/meyeri*, *Hanseniaspora guiHiermondii*, *Cryptococcus flavescens*, *Aureobasidium pullulan*, *Wickerhamomyces sp.*, *Starmerella bacillaris*, *Kluyveromyces sp.*, *Torulaspora sp.*, *Satumispora diversa* and *Saccharomyces cerevisiae*.

6. The composition according to any one of claims 1, 2, 4 and 5, wherein the alcohols are selected from isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol.

7. The composition according to any one of claims 1, 2 and 4 to 6, wherein the ratio of the short chain esters to the alcohols is between approximately 50:1 to 70:1 (v/v).

8. A composition for attracting fruit flies including a mixture of compounds consisting in ethyl acetate, ethyl propionate, ethyl butyrate, hexylacetate, ethylhexanoate and (z)-3-hexenyl acetate,

wherein the composition substantially excludes any other short chain ester or any other long chain ester.

9. A composition for attracting fruit flies including a mixture of compounds consisting in ethyl acetate, ethyl propionate, ethyl butyrate, isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol,

wherein the composition substantially excludes any other short chain ester or any other alcohol.

10. The composition according to any one of claims 1 to 9, wherein the composition further includes y-decalactone.

11. The composition according to any one of claims 1 to 10 wherein the fruit fly is *Dirioxa porni*, or wherein the fruit fly is of a genus selected from *Bactrocera*, *Ceratitis*, *Rhagoletis* and *Anastrepha*.

12. The composition according to claim 11, wherein the fruit fly is from a species selected from *Bactrocera tryoni*, *Bactrocera dorsalis* and *Ceratitis capitate*.

13. The composition according to claim 11 or claim 12, wherein the fruit fly is a female fruit fly.

14. The composition according to claim 13, wherein the female fruit fly is a mated female fruit fly.

15. A device for trapping fruit flies including the composition according to any one of claims 1 to 14.

16. The device according to claims 15 wherein the device further includes a Ladd trap.

17. The device according to claim 16, wherein the Ladd trap is modified to include holes in the half-spheres to provide a means for release of the composition from the device.

18. The device according to any one of claims 15 to 17, wherein the Ladd trap is coated with a suitable material to trap fruit flies.

19. A device for trapping fruit flies, wherein said device includes:

(i) a composition for attracting fruit flies, which composition includes a compound mixture consisting of ethyl acetate, ethyl propionate, ethyl butyrate, hexylacetate, ethylhexanoate and (z)-3-hexenyl acetate; and

(ii) a Ladd trap modified to release the composition for attracting fruit flies.

20. A device for trapping fruit flies, wherein said device includes:

(i) a composition for attracting fruit flies, which composition includes a compound mixture consisting of including ethyl acetate, ethyl propionate, ethyl butyrate, isoamyl alcohol, 2-methyl-1-butanol and iso-butyl alcohol; and

(ii) a Ladd trap modified to release the composition for attracting fruit flies.

21. A device for trapping fruit flies, wherein said device includes:

(i) a composition for attracting fruit flies according to any one of claims 1 to 14; and

(ii) a Ladd trap modified to release the composition for attracting fruit flies.

22. A method of attracting and/or trapping fruit flies including the step of exposing a fruit fly infested environment to a composition according to any one of claims 1 to 14 and/or a device according to any one of claims 15 to 21.

23. A method of monitoring for the presence of at least one fruit fly including positioning a device according to any one of claims 15 to 21 within an environment that requires monitoring for the presence of fruit flies.