

***Musca domestica* L. (Diptera : Muscidae)**

(2008/2/25 2007/10/1)

Musca domestica L.

400 % 94

Azadirachta excelsa Jack

.

Pimpinella anisum L.

400 % 50

.% 40

Cinnamomum zeylanicum L.

. *Solanum nigrum* L.

Biological Effect of Four Plant Extracts admixed with the Diet of the Third Instar Larvae on Growth and Development of the Larvae, Pupae and Adults of House Fly, *Musca domestica* L. (Diptera: Muscidae)

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ABSTRACT

The effect of four plant extracts, mixed with diet of the 3rd instar larvae of *Musca domestica* L., on the growth and development were studied and the results revealed that, *Azadirachta excelsa* Jack leaves extract at 400 ppm concentration caused 94% mortality after 7 days of treatment in larval, pupal and adult stages, in addition to causing morphogenetic aberrations in pupae and adults, similar to that caused by insect growth regulators. *Pimpinella anisum* L. seed extract (400 ppm) caused 50% mortality after 7 days in larval, pupal and adult stages. Bark extract of *Cinnamomum zeylanicum* L. had a low effect (40% mortality) in larval, pupal and adult stages, which *Solanum nigrum* L. leaves extract had no effect.

Musca domestica L.

.(Chavasse et al., 1999)

Azadirachta excelsa Jack (1995) Schmutterer
Tunc *Epilachna varivestis*
Pimpinella anisum L. (2000)
(2005) Mustafa
Culex pipiens molestus F.
Cinnamomum zeylanicum L. (1985) Grainge
(2000) *Cochliomyia hominivorax*
Azadirachta indica A. Juss
(2007) Ghoneim

.....

A. indica.

Margosan – O

Azadirachta excelsa Jack

Cinnamomum zeylanicum L.

Pimpinella anisum L.

Solanum nigrum L.

M. domestica

:

M. domestica

(30 x 30 x 30)

.% 75 ± 70

° 2 ± 27

)

200

22

600

.

³

1200

5

³

20 (

.(West, 1951)

% 10

:

A. excelsa

Solanum nigrum

2005

Cinnamomum zeylanicum

Pimpinella anisum

(Schmidt et al., 1998)

% 80

(1 - 0.5)

24

Lyophilizer

(° 50 – 30

)

% 80

1:1

% 80

400 200 100 50

:

12

3 5 3 100

24

(1925) Abbott

0.05

: (1979) Darwazeh and Mulla

$$100 \times \frac{T - 100}{C} =$$

= T

= C

% 94

A. excelsa

(1)

P. anisum

400

% 50

S. nigrum

C. zeylanicum

A. excelsa

(2)

400 200

50 400 200 100

% 94 60

A. excelsa

1)

.....

.(

.(3)

.(1)

.(1)

200 .(3)

1)

400

1)

(

(

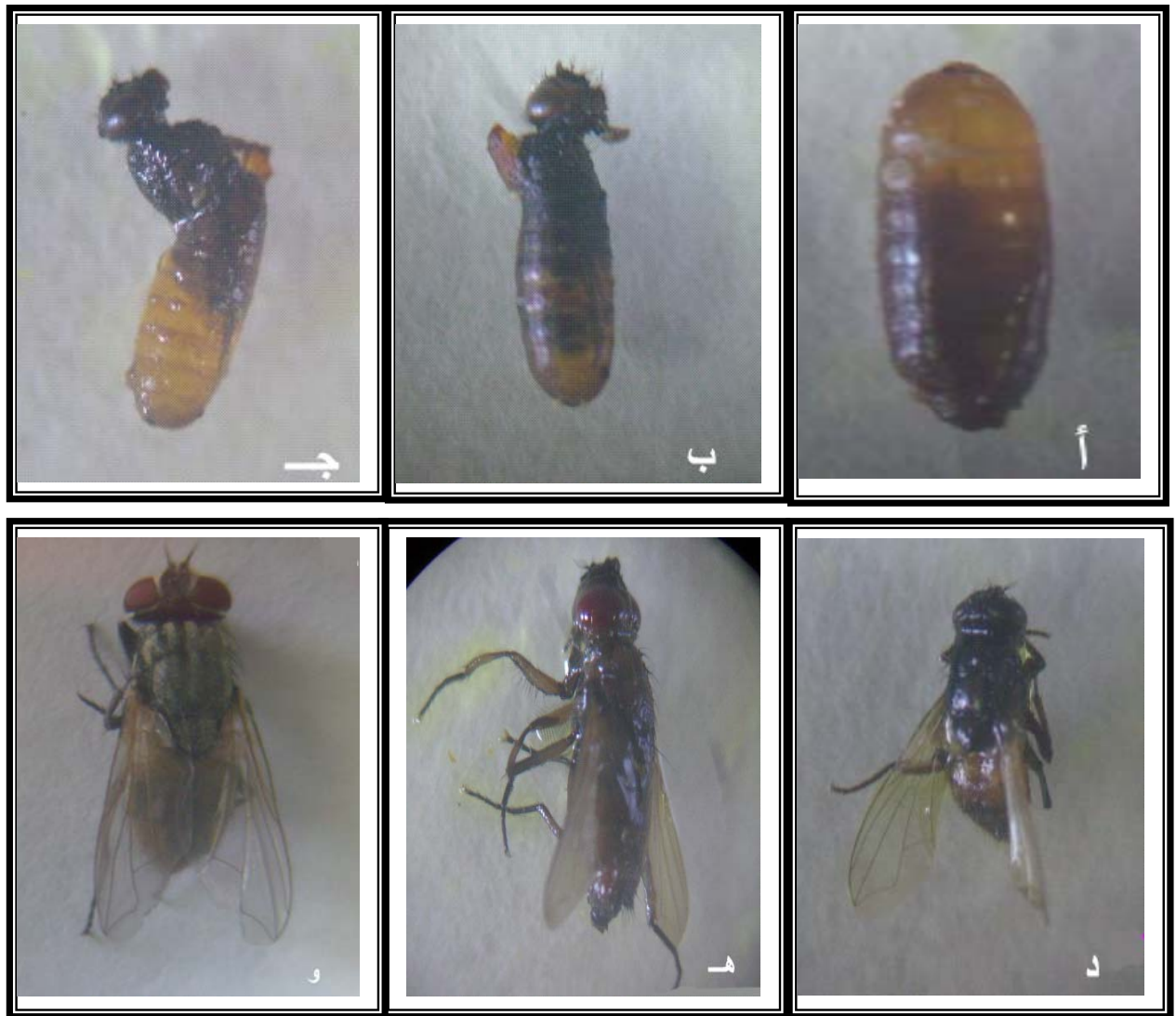
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()				
400	200	100	50	
94	60	50	20	<i>A. excelsa</i> ()
50	40	36	0	<i>P. anisum</i> ()
40	20	14	0	<i>C. zeylanicum</i> ()
0	0	0	0	<i>S. nigrum</i> ()

A. excelsa : 2

					ppm
20	10	0	5	5	50
50	25	0	10	15	100
60	30	10	5	15	200
94	47	15	9	23	400



:1

. . *A. excelsa*

.....

: 3

A. excelsa

					ppm
0g	0g	0g	4f	6c	50
0g	0g	0g	12e	8b	100
2h	2h	4f	10e	12a	200
6c	11a	6c	14d	11a	400

.%5

A. excelsa

(1)

400

.(2)

400 200

A. excelsa

(2006)

Cetin

80

/ 20 10

Novaluron

(1984) Awad and Mulla

%

Cyromazine

P. anisum

% 50

400

% 100

(Mustafa, 2005)

10

Culex pipiense molestus F.

C. zeylanicum

(Grainge *et al.*, 1985)

Cochliomyia hominivorax Linn

S. nigrum

(2005) Jebanesan Rajkumar

Anopheles stephensi L.

Solanum trilobatum L.

.2000

Musca domestica L. (Dipera : Muscidae)

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