
Mus musculus

Natural Honey

Mus musculus

Abstract

The study is designed to investigate the inhibitory efficiency of natural honey through the studying of the role of honey in the inhibiting of genotoxic effects of a rodenticide zinc phosphide on somatic cells and germ cells in mice *Mus musculus* depending on cytogenetically analyzed by determining the mitotic activity , chromosomal aberration and sperm head abnormalities .

The results revealed the following :-

Absence of toxicity and mutagenicity of honey at tested concentrations , the high inhibitory effects of zinc phosphide for cell division in addition to induction of chromosomal aberration and sperm head abnormalities and the high inhibitory efficiency of all concentration of honey against the toxicity and mutagenicity of zinc phosphide .

Moutschen ,)

.(1985

. (1993)

DNA

Sobti . (1982)

Curacon (1988) El- Nahas . (In Vitro)

Astaf

Quinto et al) Ferbam . Bhunya & Behera , 1988))

(1989

Balb/c

(1999) . (1997 1995)

Consumers

Kada)

Honey (et al , 1978

. 69

Zn₃P₂

1997 1995)

. (1999

/ (600 450 300 150)

/ 80

. 32- 27 12-8 . *Mus musculus*

(1977) Allen

Stick . (1964) Evans

(1981) San

100 (1978) Au

(1975) Bruce Wyrobek

100

-: (1997) Rawat

-

$$100 \times \frac{\quad}{\quad} = \%$$

-

() () ()

4 3 5
7 / (600 450 300 150)

3 6 () . ()
7 4

/ 80

6 . ()

6

3

3

L.S.D

—

-1

-

% (9.16 19.6 20.07 18.0) (P < 0.05) (1)
/ (600 450 300 150)
. % 15.47

(P< 0.05) (1)

/ 300

(1)

()

(1)

(P> 0.05)

() -2

(P< 0.05) (2)

% 14.7

% 9.2 ()

7 (P< 0.05)

(1)

/ (52.67 34.30 50.00 33.82) ()

/ (600 300)

(2)

% 5.913 (P< 0.05)

7 % 8.813

(P< 0.05)

/ (600 450 300 150) % (63.93 54.38 78.69 75.06)

/ 300

P<) (2)

() (0.05)

%12.94 ()

7 %0.173

(P< 0.05) ()

(1)

) % (30.10 34.10 39.66 32.69)

300

/ (600 450 300 150

. /

-

(2)

(P< 0.05)

% 7.323

% 2.917

7

(P< 0.05)

(1)

/ (600 450 300 150)

% (75.78 73.90 95.78 95.17)

300

()

-3

-

(3)

(P< 0.05)

(P> 0.05)

(1)

% 19.08 %13.51

(P< 0.05)

(3)

%6.263

%8.88

(3)

(P> 0.05)

/ 150

(P< 0.05)

53.38 47.92 23.26)

(1)

/ (600 450 300 150)

% (52.62

/ 300

-

(3)

(P< 0.05)

% 0.157

()

7.03)

()

% 12.907

/ (600 450 300 150) % (6.953 6.943 6.853
 % (46.70 46.78 47.48 46.09) (1)
 / 300 / (600 450 300 150)

(3)

(P < 0.05)

(1)
 / (600 450 300 150) % (93.89 93.29 87.45 96.57)
 / 150

(1)

(2006)

(2002)

(1)

(White , 1993)

(2002)

(2002)

(3) (2)

Malhi &) (1999) (1997) (1995)

(Grover , 1987

(Shiraishi , 1987)

(1995) (Allen et al , 1994)

DNA

(1999)

(1997)

RNA

(1995)

. (1995) (Kappas et al , 1990)

Bhunya & Behera , 1988 ; Bhunya &) DNA (Alkylating)
(3) (2) . (Behera , 1989

(1)

. (1983) Glutathione

Nucleophils (Hayatsu et al , 1988)
Deflora &) Electrophils DNA
. (Ramel , 1988

(White , 1979)

Aleo (1997) Lee , Kim

barbadensis

DNA-Adduct

Polysaccharides

DNA

B(a)P

C

(Deflora & Ramel , 1988)

C

. (Alekperov , 1982)

. (Mita et al , 1982)

DNA

(1)

(3)

(2)

. (Alekperov , 1984 ; Alekperov , 1982)

Desmutagen

. (2006)

(2002)

Bioantimutagen

-1

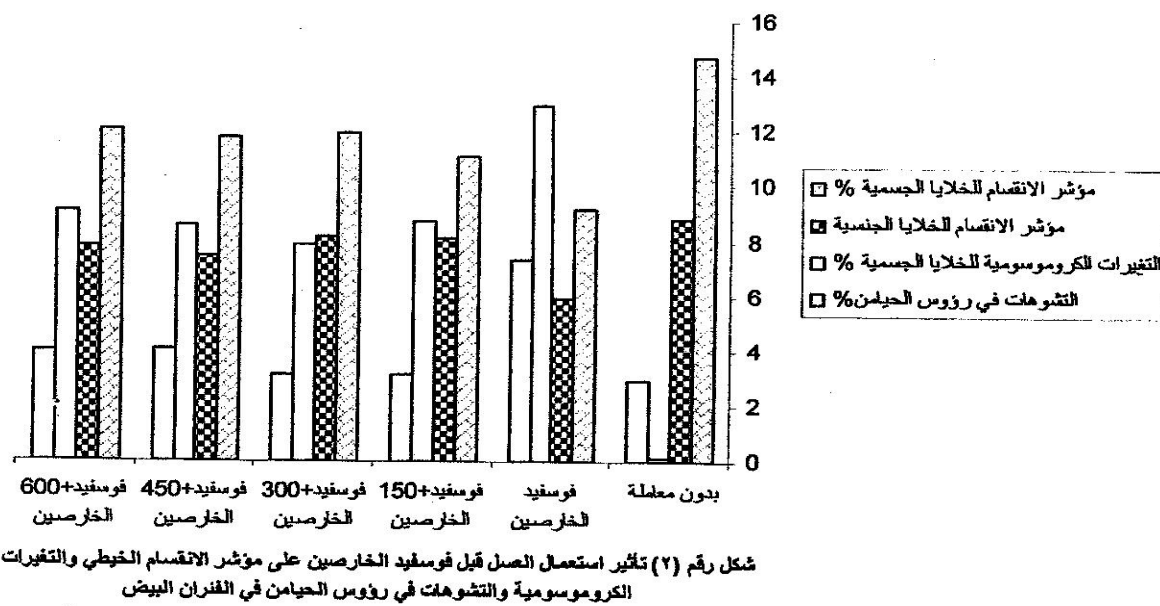
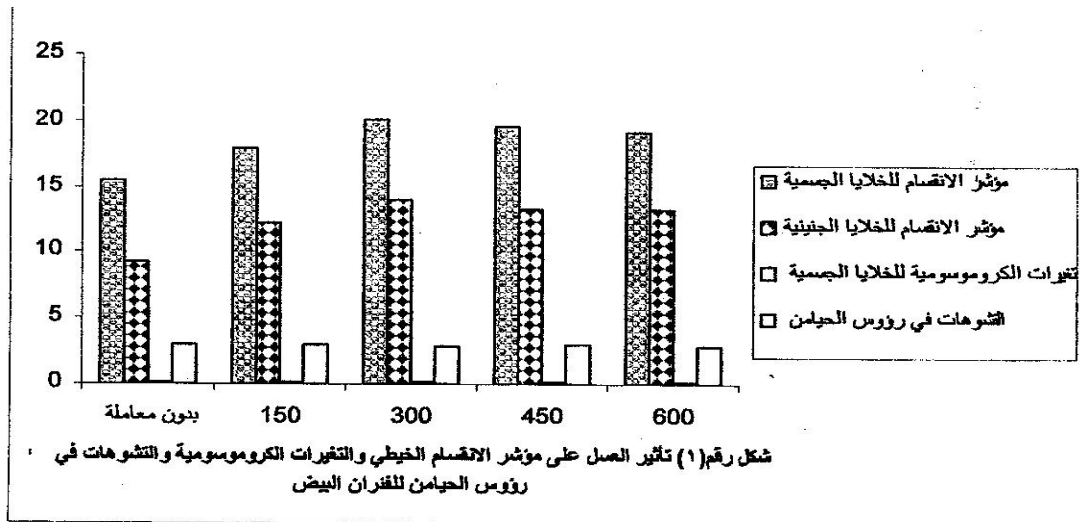
-2

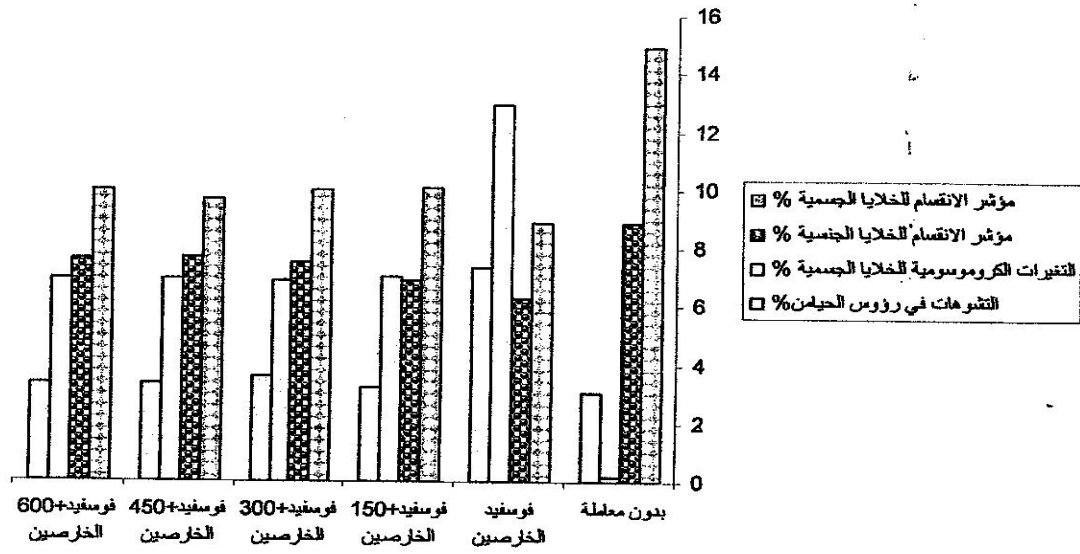
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-4

(1)

%					
				/	
95.17	32.69	75.06	33.82	150	
95.78	39.66	78.96	50.00	300	
73.90	34.10	54.38	34.03	450	
75.81	30.10	63.93	52.67	600	
90.57	46.09	23.46	19.08	150	
87.45	47.48	47.92	18.53	300	
93.29	46.78	53.38	13.51	450	
93.86	46.70	52.62	18.53	600	





شكل رقم (٣) تأثير استعمال العسل بعد فوسفيد الخارصين على مؤشر الانقسام الخيطي والتغيرات الكروموسومية والتشوهات في رؤوس الحياتن في الفئران البيض

	(1983)	-1
	.(2002)	-2
	.(1997)	-3
.Mus Musculus		
	.(1995)	-4
	.(1999)	-5
	.(2006)	-6
510.-500 :3	13	-
	(2002)	-7
	.(1993)	-8

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