Mus musculus

(2)

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**Histology of the Liver of Albino Mice *Mus musculus* Exposed
Experimentally to Passive Smoking
Part (2)
The Effect of Passive Smoking on the Levels of Glycogen in Mice
Liver**

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ABSTRACT

The study aims were to investigate the effect of passive smoking on the changes in the level of glycogen in mice. The mice were exposed for (2 to 4) months to passive smoking, for 2 to 4 hour's daily. The intensity of carbohydrate and glycogen reaction by increasing the amount of smoking and histochemical stains was decreased with the lapse of time to exposure of passive smoking as compared with the group of control.

Keywords: Passive Smoking, Glycogen, Liver.

(Araujo *et al.*, 2008)

.(Jiang *et al.*, 2007)

.(Danial *et al.*, 2012; Lee *et al.*, 2011; IARC, 2002)

4000

250

.(USDHHS, 2002)

Histochemistry

.(Sumner, 1969)

Mucosubstances

(Brimacombe and Webber, 1964)

.....

.(Kiernan, 1999)

(1 :2 glycol)

.(Culling *et al.*, 1985) Ester sulfate

CooH

Hypatocytes

.(McArdle *et al.*, 2007) Amylopectin

Animal starch

-

PAS

.(Sumner,1969)

Glycoprotein

.(Sheehan and Hrapchak, 1980) Proteoglycan

Glycogen

PAS

PAS

storage disease

.(Boon *et al.*, 2006)

Paget's disease

Best's carmin

OH

Carmin acid

H

Mucin

Fibrin

.(Titford, 2009 ; Horobin, 1982)

(Smitherman *et al.*, 1972)

.(Cook, 1990)

.

(3-2)

Mus musculus

London

(13×16×30)

(27)

plastic/North Kent

. /6

(100×50×75)

(10) (2001)

(Aspin) (20)

(12-6) Alcoholic Bouin's solution

Rotary microtome (Culling *et al.*, 1985)

6

Best'scarmin PAS

(Leitz Watzler, Germany)

Sony-DSC W30/Japan

.

PAS

.(1) ()

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:1

/	/	/	/		
—	+	++	+++	++++	PAS
—	+	++	+++	++++	B.C

:

. : +++++
. : +++
. : ++
. : +
. : -

6 =

.....

PAS

(1) Magenta

(/)

PAS

(2)

(/)

(/)

.(3) (/)

(4)

(/)

(/)

.(5)

(/)

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.(6) (/

Glycogenolysis

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(Stevens and Lowe, 1997)

(Martin and King Engle, 1972)

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(Valenca *et al.*, 2008)

.

(Wang *et al.*, 2005; Nakajima *et al.*, 1996)

1:2 glycol

.

PAS

(Schiff reagent)

(Barka and Anderson, 1993)

: 1

.X 576 P.A.S.

(/)

:2

.X 576 P.A.S.

.....

(/) : 3
.X 576 P.A.S.

: 4
.X 576 B.C.

(/)

:5

.X 576 B.C.

(/)

: 6

.X 576 B.C.

.(2001)

Oryctolagus

.*cuniculus*

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