بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

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شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
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تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

MONA MAGHRABY

Ain shams University
Faculty of Women for Arts,
Science and Education.

Molecular genetic, Embryologic and Cytogenetic Studies on the effects of Bisphenol A(BPA)in Albino Rats.

Thesis submitted for the fulfillment for the Ph.D. degree. in Zoology

by

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(M.Sc. 2015)

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2020

قَالَ تَعَالَىٰ: ﴿وَقُلِ ٱعۡمَلُواْ فَسَيَرَى ٱللَّهُ عَمَلَكُمۡ
وَرَسُولُهُۥ وَٱلۡمُؤۡمِنُونَۖ وَسَتُرَدُّونَ إِلَىٰ عَٰلِمِ ٱلۡغَيۡبِ
وَٱلشَّهَٰدَةِ فَيُنَبِّئُكُم بِمَا كُنتُمۡ تَعۡمَلُونَ ١٠٥﴾

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Abstract

Bisphenol A(BPA) is an endocrine disruptor chemical which used in the manufacturing process of plastic. Exposure to low doses on long periods of BPA had many hazardous effects. The aim of the present study was to assess the effects of lowest dose of BPA(50µg/kg b.w) induced orally on the male reproductive performance and changes in the testis tissue through histological investigation . The effects of BPA on pregnant mother female rats and their fetuses morphologically and by skeletal examination. As well as the evaluation of the gene expression of the tumor suppressor gene P53 by quantitative Realtime PCR was carried out . Ninety- two albino rats were divided into three groups, group I- control group (8 male and 8 female control rats receiving corn oil only). Group II (64 male rats) which was treated with oral doses of 50 µg/ kg/ day daily for 8 weeks. Every week 8 male rats were dissected and subjected to the investigated parameters. Group III (12 female rats|) which was treated with oral doses of 50 µg/ kg/ day daily and then mated with males with (subgroup 3) which was the most affected subgroup .Then the pregnant females are treated daily till the 19th day of gestation, then dissected at the 20th day. The morphological