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The possible protective effect of stem cells on hypoxia model induced by NaNO_2 on male albino rats

Thesis submitted for the degree of Master of Histology and Histochemistry (M.Sc.) in zoology

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

قالوا

سبحانك لا علم لنا
إلا ما علمتنا إنك أنت
العليم العظيم

صدق الله العظيم

سورة البقرة الآية: ٣٢

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List of Abbreviations

ADP	Adenosine diphosphate
ADSCs	Adipose derived stem cells
ATP	Adenosine triphosphate
CAT	Catalase
CRP	c-reactive protein
DNA F%	DNA fragmentation percentage
GCA	Germ cell apoptosis
GPx	glutathione peroxides
GR-	Glucocorticoid receptor-
GSH-Px	glutathione peroxidase
GSHR	Glutathione-Disulfide human Reductase
HH	Hypoxic hypoxia
HI	Hypoxic-ischemic
HIF	Hypoxia-inducible factor
HIV	Human immunodeficiency virus
HNE	4-hydroxynon-2-enal
IL-1	Interleukin-1
IR	ischemia/ reperfusion
MCP-1	Monocyte chemoattractant protein-1
MDA	Malondialdehyde
MSCs	Mesenchymal stem cells