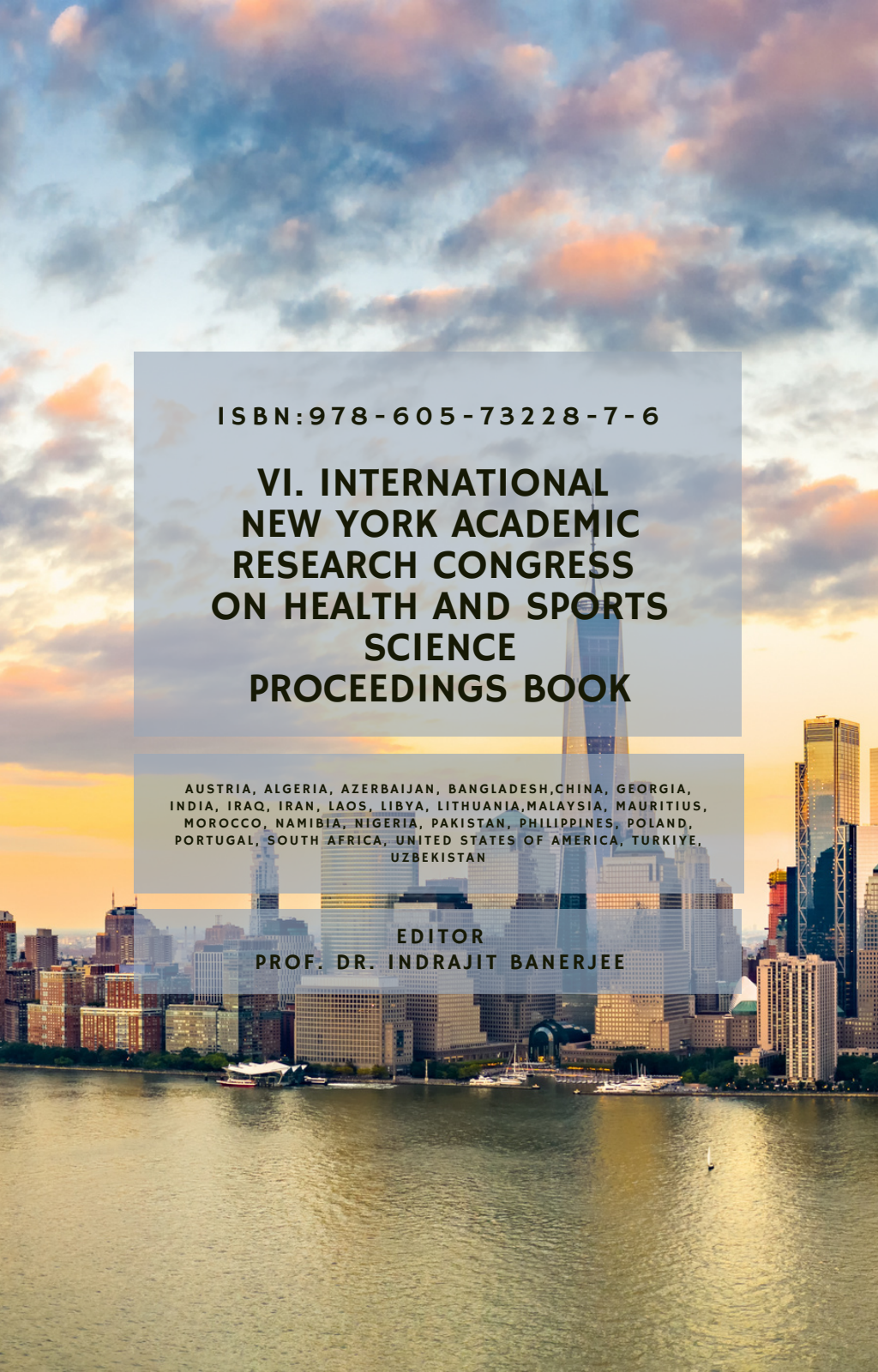


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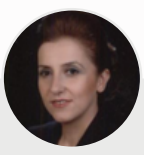
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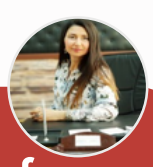
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	12.11.2022	Time: 09^{00}-12^{30} (Turkey Local time GMT+3)	MODERATOR: *Sibel ŞEKER* COORDINATOR: *Zeyneb GOKCE*
09^{00}-09^{15}	Fatma BAŞAR	*Kutahya Health Sciences University, Türkiye*	THE EFFECTS OF THE USE OF AROMATHERAPY DURING THE LABOR
09^{15}-09^{30}	Fatma BAŞAR	*Kutahya Health Sciences University, Türkiye*	EFFECT OF MASSAGE ON LABOR PAIN
09^{30}-09^{45}	Ebru BAYSAL Evin TIMUR	*Manisa Celal Bayar University, Türkiye* *İzmir Provincial Directorate of Health Bozyaka Education and Research Hospital, Türkiye*	KNOWLEDGE LEVEL OF BONE MARROW TRANSPLANT NURSES ON EVIDENCE-BASED PRACTICES IN CENTRAL VENOUS CATHETER CARE: A CROSS-SECTIONAL STUDY
09^{45}-10^{00}	Selin DEMİRBAĞ	*Manisa Celal Bayar University, Türkiye*	COMPLEMENTARY AND ALTERNATIVE MEDICINE USE IN COVID-19 PATIENTS: SYSTEMATIC REVIEW
10^{00}-10^{15}	Çiğdem ÖKTEN Havva Gezgin YAZICI	*Kutahya Health Sciences University, Türkiye*	INSOMNIA SEVERITY OF CHRONICALLY ILL INDIVIDUALS IN THE COVID-19 PANDEMIC: A CROSS-SECTIONAL STUDY
10^{15}-10^{30}	Kübra ÇORU Tuba KOÇ ÖZKAN	*Adıyaman University Training and Research Hospital, Türkiye*	MOURNING PROCESSES OF WOMEN WITH EARLY PREGNANCY LOSS AND AFFECTING FACTORS
10^{30}-10^{45}	Hakan YALÇIN İrem ULUIŞIK YILMAZ	*İskenderun Technical University, Türkiye*	ASSOCIATION OF INFORMATION TECHNOLOGIES USED IN NURSING PRACTICES AND CBRN
10^{45}-11^{00}	Tolgahan ÖZER Fatma ÜNAL Deniz YÜZBAŞIOĞLU	*Gazi University, Türkiye*	GENOTOXIC EFFECTS OF FE2O3 NANO- AND MICROPARTICLES IN LYMPHOCYTES BY MICRONUCLEUS TEST
11^{00}-11^{15}	Sıttıka DELEN Elif YILMAZ ŞAHIN Vahdettin ALTUNOK Meral KEKEÇOĞLU Beyza SUVARIKLI ALAN Tuğçe ÇAPRAZLI Abdullah SIVRIKAYA	*Selçuk University, Türkiye*	INVESTIGATION OF THE EFFECTS OF BEEHIVE AIR AND POLLEN APPLICATIONS ON LIVE WEIGHT AND SOME BIOCHEMICAL PARAMETERS OF RATS
11^{15}-11^{30}	Elif YILMAZ ŞAHIN Sıttıka DELEN Vahdettin ALTUNOK Meral KEKEÇOĞLU Beyza SUVARIKLI ALAN Merve KAMBUR ACAR Abdullah SIVRIKAYA	*Selçuk University, Türkiye* *Düzce University, Türkiye*	INVESTIGATION OF THE EFFECTS OF BEEHIVE AIR AND PROPOLIS APPLICATIONS ON BODY WEIGHT AND SOME BIOCHEMICAL PARAMETERS IN RATS
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GENOTOXIC EFFECTS OF Fe_2O_3 NANO- AND MICROPARTICLES IN LYMPHOCYTES BY MICRONUCLEUS TEST

[1, 4]Tolgahan ÖZER, [2]Fatma ÜNAL, [3]Deniz YÜZBAŞIOĞLU

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Abstract

Since the advantageous properties of magnetic nanoparticles were noticed, investigations have accelerated the use of nanomaterials in medicine. In particular, iron (III) oxide (Fe_2O_3) nanoparticles (NPs) are preferred intensely due to ease of use, ease of obtaining, physiochemical properties, and compatibility with organic and inorganic substances. Iron (Fe) is one of the most important transition metals and can be involved in biological processes in living organisms. Thus, Fe_2O_3 has become one of the most widely used metal oxide NPs in biological systems. In this research, the genotoxicity of Fe_2O_3 NPs and microparticles (MPs) was evaluated by micronucleus test (MN). The MN test is used to determine the frequency of MN, nucleoplasmic bridges (NPBs), nuclear buds (NBUDs), apoptotic and necrotic cells, and cells with single, double, and triple nuclei resulting from damage caused by clastogenic or aneugenic agents. Human peripheral lymphocytes were exposed to concentrations of 125, 250, 500, and 750 µg/mL Fe_2O_3 NPs and MPs for 48 hours. Control groups were also evaluated for negative, sterile distilled water, and for positive, mitomycin-C (MMC). Test results revealed that both of the particles increased the frequency of MN in human lymphocytes. However, this increase was significant in only one dose (250 µg/mL) for both. In addition, both of the particles caused an increase in the frequency of NBUDs and NPBs (except 125 µg/mL; NPs). Increasing at 125, 250, and 500 µg/mL and 250 µg/mL Fe_2O_3 MPs was significant compared to the control, respectively. These results suggest that Fe_2O_3 MPs were more effective in the formation of NBUDs and NPBs compared to Fe_2O_3 NPs in lymphocytes *in vitro*. These data might have resulted from the aggregation of NPs that cannot pass through the cell membrane or the nucleus and therefore cannot interact with biological systems. However, more investigations should be carried out for the evaluation of the genotoxic potentials of NPs and MPs.

Keywords: Iron (III) Oxide, Nanoparticles, Microparticles, Genotoxicity, Micronucleus.