

Iranian Journal of Toxicology
Scientific Quarterly Journal
VOLUME 7 NUMBER 21 SUMMER 2013

Chairman: Mohammad Jamalian

Editor-in-chief: Hassan Solhi

Editor of the section of Analytic Toxicology: Kambiz Soltannejad

Editor of the section of Biochemical Toxicology: Mohammad Abdollahi

Editor of the section of Cellular Toxicology: Seyed Nasser Ostad

Editor of the section of Clinical Toxicology: Shahin Shadnia

Editor of the section of Molecular Toxicology: Jalal Pourahmad, Omid Sabzevari

Associated Editors: Ali Cyrus :MD, Department of Urology, Arak University of Medical Sciences, Arak, Iran, **Amir**

Mohammad Kazemifar : MD, Department of Forensic Medicine, Ghazvin University of Medical Sciences, Ghazvin, Iran,

Vahid Jalilian:MA in Language Teaching,**Mina Mozaffari:** MSc in Health Information Management.

Editorial Board:

Mohammad Abdollahi (Pharm.D, Department of toxicology & pharmacology, Tehran University of Medical Sciences, Tehran,

Iran.)**Mahdi Balali-Mood** (PhD, Department of toxicology, Mashad University of Medical Sciences, Mashad, Iran).**Talat Ghane**

(PharmD, Department of toxicology, Tehran University of Medical Sciences, Tehran, Iran). **Mahmoud Ghazi-Khansari**

(Pharm.D, Department of toxicology & pharmacology, Tehran University of Medical Sciences, Tehran, Iran)**Farzad Gheshlaghi**

(MD, Department of poisoning emergency, Isfahan University of Medical Sciences, Isfahan, Iran).**Hossein Hassanian-**

Moghadam (MD, Department of clinical toxicology, Shahid Beheshti University of Medical Sciences, Tehran, Iran)**Mohammad**

Reza Heydari (Pharm.D, Department of toxicology & pharmacology, Kerman University of Medical Sciences, Kerman,

Iran).**Farshad Hosseini-Shirazi** (Pharm.D, Department of toxicology & pharmacology, Shahid Beheshti University of Medical

Sciences, Tehran, Iran.)**Nasser Jalali** (MD, Department of toxicology, Shahid Beheshti University of Medical Sciences, Tehran,

Iran).**Akbar Kooshanfar** (MD, Department of pediatrics, Shahid Beheshti University OF Medical Sciences, Tehran, Iran)

Omid Mehrpour (MD, Department of Forensic Medicine, Birjand University of Medical Sciences, Birjand, Iran.)**Ali Akbar**

Moghadamnia (Pharm.D, Department of pharmacology, Babol University of Medical Sciences, Babol, Iran.)**Hossein**

Niknahad (Pharm.D, Department of pharmacology, Babol University of Medical Sciences, Babol, Iran). **Lucky Lebgbosi**

Nwidu, (Ph.D in Pharmacology, Department of Pharmacology & Toxicology, Bayelsa, Nigeria).**Seyed Nasser Ostad**

(Pharm.D, Department of toxicology, Tehran University of Medical Sciences, Tehran, Iran).**Abdolkarim Pajoumand** (MD,

Department of toxicology, Shahid Beheshti University of Medical Sciences, Tehran, Iran).**Shirin Pazuki** (MD, Department of

anesthesiology, Arak University of Medical Sciences, Arak, Iran).**Jalal Pourahmad** (Pharm.D, Department of toxicology &

pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran). **Mahmoud Rahimi** (MD, Department of

anesthesiology, Isfahan University of Medical Sciences, Isfahan, Iran.)**Mohammad Reza Rasekh** (Pharm.D, Department of

Toxicology & pharmacology, Shahid Beheshti University of Medical Sciences, Tehran, Iran).**Omid Sabzevari** (Pharm.D,

Department of toxicology, Tehran University of Medical Sciences, Tehran, Iran)**Shahin Shadnia** (MD, Department of internal

medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran.)**Hassan Solhi** (MD, Department of Forensic Medicine,

Arak University of Medical Sciences, Arak, Iran).**Kambiz Soltaninejad** (Pharm.D, Department of toxicology & pharmacology,

Legal Medicine Organization, Tehran, Iran). **Fakhreddin Taghadosinejad** (MD, Department of forensic medicine, Tehran

University of Medical Sciences, Tehran, Iran).**Haleh Talaie** (MD, Department of Toxicology, Shahid Beheshti University of

Medical Sciences, Tehran, Iran).**Hassan Towfighi** (MD, Department of forensic medicine, Tehran University of Medical

Sciences, Tehran, Iran). **Musa Toyin Yakubu**. (Ph. D. Biochemistry, Department of Biochemistry, University of Ilorin, Ilorin,

Nigeria).

Executive Manager: Fatemeh Marjan Mousavi

Expert, Layout: Sima Hamidi

Executive Expert: Maryam Aeinmehr

Publisher: Arak University of Medical Sciences with corporation of Iranian Society of Toxicology

Journal Office: Arak University of Medical Sciences, Basij Sq., Arak, Iran. Telefax: +98 861 4173509

E-mail: “ijt@arakmu.ac.ir” , “tox.journal@ymail.com”

Homepage: “<http://ijt.arakmu.ac.ir>” , “<http://www.ijt.ir>”