

2022-ISI from Web of Science : 54 results

[Differential gene expression analysis of common target genes for the detection of SARS-CoV-2 using real time-PCR](#)

[Valadan, R](#); [Golchin, S](#); (...); [Ghamati, M](#)

Sep 2 2022 |

12 (1)

COVID-19 currently is the main cause of the severe acute respiratory disease and fatal outcomes in human beings worldwide. Several genes are used as targets for the detection of SARS-CoV-2, including the RDRP, N, and E genes. The present study aimed to determine the RDRP, N, and E genes expressions of SARS-CoV-2 in clinical samples. For this purpose, 100 SARS-CoV-2 positive samples were collec

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[Hepatotoxicity in young adult mouse offspring after prenatal exposure to benzo\(a\)pyrene, and protective effect of atorvastatin](#)

[Malekshah, AK](#); [Rahmani, Z](#); (...); [Amiri, FT](#)

Jul 1 2022 | May 2022 (Early Access) |

114 (11) , pp.551-558

Objectives Benzo[a]pyrene (BaP) is an environmental contaminant that interrupts the antioxidant defense and thus leads to oxidative stress and DNA damage in the liver. Atorvastatin (ATV) for reducing cholesterol has antioxidant and anti-apoptotic activities. This study investigated the effects of prenatal exposure of BaP on liver toxicity and the protective role of ATV in reducing liver toxicit

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[Evaluation of the Presence of Bacterial and Viral Agents in the Semen of Infertile Men: A Systematic and Meta-Analysis Review Study](#)

[Gholami, M](#); [Moosazadeh, M](#); (...); [Mousavi, T](#)

May 4 2022 |

9

Objectives: Infections in the male genitourinary system with bacterial and viral agents may play a significant role in male infertility. These agents usually infect the urethra, seminal vesicles, prostate, epididymis, vas deferens, and testes retrograde through the reproductive system. A meta-analysis review study was performed to evaluate the presence of bacterial and viral agents in the semen

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[Radioprotective effect of hesperidin against ovarian toxicity induced by Ionizing radiation through inhibiting oxidative stress in mice](#)

[Hosseinpour, S](#); [Moghaddam, AEN](#); (...); [Ghasemi, A](#)

Apr 2022 |

20 (2) , pp.417-423

Background: Radiotherapy enhances the risk of ovarian injury induced by oxidative stress in the female patients. Hesperidin, as a natural compound has various biological properties included anti-tumoral, antioxidant, and anti-inflammatory activities. This research evaluated the effects of hesperidin on ovarian damage induced by IR. Materials and Methods: Twenty-eight female mice distributed to

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[Effects of clozapine and risperidone antipsychotic drugs on the expression of CACNA1C and behavioral changes in rat 'Ketamine model of schizophrenia](#)

[Sanavi, MA](#); [Ghazvini, H](#); (...); [Hosseini-khah, Z](#)

Jan 23 2022 |

770

Calcium Voltage-Gated Channel Subunit Alpha1 C (CACNA1C) is one of the most important genes associated with schizophrenia. In this study, 45 male Wistar rats were divided into 5 groups of saline, control, ketamine, clozapine, and risperidone. Animals in ketamine, risperidone, and clozapine groups received ketamine (30 mg/ kg-i.p.) for 10 days. After the last injection of ketamine, we started in

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[Assessment of the diagnostic ability of RIFLE and SOFA scoring systems in comparison with protein biomarkers in acute kidney injury](#)

[Abedi, S](#); [Makhlough, A](#); (...); [Kordjazi, M](#)

Oct 26 2022 |

46 (5) , pp.353-359

Background We aimed to assess the diagnostic sensitivity of Risk, Injury, Failure, Loss, and End-stage (RIFLE) and Sequential Organ Failure Assessment (SOFA) scoring systems

regarding the serum creatinine level in acute kidney injury (AKI) patients hospitalized in the intensive care unit (ICU). This study also aims to compare the sensitivity of these scoring systems with that of mitochondrial p

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COVID-19 Prognosis in Children With Asthma

[Ghaffari, J](#)

2022 |

10 , pp.363-366

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Prior short-term exercise prevents behavioral and biochemical abnormalities induced by single prolonged stress in a rat model of posttraumatic stress disorder

[Mirjalili, R](#); [Shokouh, E](#); (...); [Rashidy-Pour, A](#)

Jun 25 2022 |

428

Posttraumatic stress disorder (PTSD) is an anxiety disorder that occurs following exposure to somatic or psychotic trauma. Physical activity is known to improve symptoms of certain neuropsychiatric disorders. However, the role of exercise on acquired PTSD-like phenotype was not examined. The present study investigated the effects of prior moderate treadmill exercise on anxiety-like behaviors, s

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Seroprevalence of Cytomegalovirus antibodies and primary infection among hemodialysis patients: A systematic and meta-analysis review

[Saravi, NM](#) and [Mousavi, T](#)

Jun 2022 |

72

Background: Patients with end-stage renal failure (ESRD) require hemodialysis. According to this point that CMV infection is related to mortality in immunocompromised, and damages in hemodialysis, this study is designed to survey the seroprevalence of CMV and primary infection in hemodialysis (HD) patients. Material and methods: Current cross-sectional studies were found by online reviewing the

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Neuroprotective Effects of Treadmill Exercise in Hippocampus of Ovariectomized and Diabetic Rats

[Zare, Z](#); [Zarbakhsh, S](#); (...); [Mohammadi, M](#)
Aug 1 2022 |
496 , pp.64-72

To determine detrimental effects of estrogen and insulin deficiencies on hippocampus, we examined apoptosis-induced neuronal damage and cholinergic system in ovariectomized and/or diabetic rat hippocampus. Possible neuroprotective effects of treadmill exercise were also investigated. Adult female Wistar rats were randomly divided into four groups (n = 5 rats/group) as follows: control, ovariect

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Anti-tumor activity of a recombinant soluble Fzd7 decoy receptor in human gastric and colon cancer cells

[Hafezi, N](#); [Valadan, R](#); (...); [Ajami, A](#)
Feb 2022 |
25 (2) , pp.187-192

Objective(s): Frizzled-7, the most common receptor of the Wnt signaling pathway, was significantly over-expressed in gastric (GC) and colorectal (CRC) cancers and stimulated tumorigenesis. The extracellular domain of Fzd7 (sFzd7) as a decoy receptor, could competitively bound with ligands and antagonize the interaction between Fzd7 receptors and Wnt ligands. Materials and Methods: We expressed

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Cold atmospheric pressure plasma treatment combined with starvation increases autophagy and apoptosis in melanoma in vitro and in vivo

[Golpour, M](#); [Alimohammadi, M](#); (...); [Rafiei, A](#)
Jul 2022 | Feb 2022 (Early Access) |
31 (7) , pp.1016-1028

Despite advances in therapy, malignant melanoma remains a fatal disease. Among several emerging approaches to combat cancer, cold atmospheric pressure plasma (CAP) has shown promising results as a novel antitumor agent in preclinical models so far. The technology

mainly relies on the emittance of various reactive oxygen and nitrogen species (ROS/RNS) that are tumor-toxic at high concentrations.

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[Association between vitamin D receptor gene polymorphism \(rs731236\) and aggrecan gene VNTR polymorphism with the risk of lumbar intervertebral disc degeneration](#)

[Haddadi, K](#); [Sahebi, M](#); (...); [Hashemi-Soteh, MB](#)

2022 |

13 (2) , pp.418-424

Background: Low back pain is one of the most common causes of referral to physicians. Lumbar disc degeneration (LDD) is the main cause of back pain in different countries. It seems that genetic factors are more effective than environmental factors in the developing of degenerative phenomena. The aim of this investigation, therefore, was to study the association of the aggrecan gene (ACAN) varia

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[Pharmacokinetics study of chitosan-coated liposomes containing sumatriptan in the treatment of migraine](#)

[Assadpour, S](#); [Akhtari, J](#) and [Shiran, MR](#)

2022 |

13 (1) , pp.90-99

Background: Sumatriptan is a routine medication in the treatment of migraine and cluster headache that is generally given by oral or parental routes. However, a substantial proportion of patients suffer severe side effects. The aim of this study was to investigate the physicochemical characterization and pharmacokinetic parameters of a novel delivery system for sumatriptan succinate (SS) using

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[Mefenamic acid as a promising therapeutic medicine against colon cancer in tumor-bearing mice](#)

[Seyyedi, R](#); [Amiri, FT](#); (...); [Hosseinimehr, SJ](#)

Feb 2022 |

39 (2)

Although radiotherapy is an effective strategy for cancer treatment, tumor resistance to ionizing radiation (IR) and its toxic effects on normal tissues are limiting its use. The aim of this study is to evaluate the anti-cancer effects of mefenamic acid (MEF), as an approved medicine, and its combination with IR against colon tumor cells in mice. Tumor-bearing mice were received MEF at a dose o

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Radioprotective effects of gliclazide against irradiation-induced cardiotoxicity and lung injury through inhibiting oxidative stress

[Amiri, FT](#); [Arzani, S](#); (...); [Hosseinimehr, SJ](#)

Sep 7 2022 |

39 (12)

Radiotherapy is one of the main treatments for localized primary cancer in patients. Cardiotoxicity and lung injury are two of the main side effects of oxidative stress following radiotherapy in patients with thoracic region cancer. Gliclazide (GLZ) as an antihyperglycemic drug has antioxidant, anti-inflammatory, and anti-apoptotic activities. This study aimed to evaluate the effect of GLZ in c

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Sodium arsenite accelerates D-galactose-induced aging in the testis of the rat: Evidence for mitochondrial oxidative damage, NF-kB, JNK, and apoptosis pathways

[Akbari, S](#); [Amiri, FT](#); (...); [Seyedabadi, M](#)

Mar 30 2022 |

470

Aging inhibits male reproductive function and can have an impact on fertility. This study elucidated the accelerating role of sodium arsenite (As³⁺) on D-galactose-induced reproductive aging in male rats. The rats in the study are divided into nine groups. Group I is young control. Group II is naturally aged 24-month-old rats, other animal groups received As³⁺ (0.5, 1, and 2 mg/kg/day, i.p.) an

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[The combined effect of fish oil containing Omega-3 fatty acids and Lactobacillus plantarum on colorectal cancer](#)

[Sharifi, E](#); [Yazdani, Z](#); (...); [Rafiei, A](#)

Sep 2022 (Early Access) |

Colorectal cancer (CRC) is one of the deadliest malignancies. Recent attempts have indicated the role of diet in the etiology of CRC. Natural dietary compounds such as probiotics and Omega-3 fatty acids that act synergistically can be beneficial in finding a tremendous solution against CRC. To date, the combined effect of fish oil containing Omega-3 fatty acids (Omega-3) and Lactobacillus plant

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[Inhibitory Effects of Cold Atmospheric Plasma on Inflammation and Tumor-Like Feature of Fibroblast-Like Synoviocytes from Patients with Rheumatoid Arthritis](#)

[Faramarzi, F](#); [Zafari, P](#); (...); [Rafiei, A](#)

Jun 2022 (Early Access) |

Rheumatoid arthritis (RA) is a chronic, debilitating systemic disease characterized by chronic inflammation and progressive joint destruction. Fibroblast-like synoviocytes (FLSs) are one of the most important players in the pathophysiology of RA, acting like tumor cells and secreting inflammatory cytokines. Previous research has shown that cold atmospheric plasma (CAP) inhibits cancer cells and

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[The effect of source animal age, decellularization protocol, and sterilization method on bovine acellular dermal matrix as a scaffold for wound healing and skin regeneration](#)

[Mansour, RN](#); [Karimizade, A](#); (...); [Mellati, A](#)

Oct 2022 (Early Access) |

Background Healing the full-thickness skin wounds has remained a challenge. One of the most frequently used grafts for skin regeneration is xenogeneic acellular dermal matrices (ADMs), including bovine ADMs. This study investigated the effect of the source animal age, enzymatic versus non-enzymatic decellularization protocols, and gamma irradiation versus ethylene oxide (EO) sterilization on th

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Role of Frizzled receptor expression on patients' survival with gastrointestinal cancers: A systematic review with meta-analysis

[Hafezi, N](#); [Alizadeh-Navaei, R](#); (...); [Ajami, A](#)

2022 |

13 (1) , pp.1-9

Background: Frizzled receptors (FZD) play a pivotal role in the initiation and progression of a wide array of cancers. Dysregulated expression of FZD receptors is correlated with higher metastasis and invasive potential, as well as short survival in many malignancies. In this meta-analysis, we aimed to verify the prognostic value of FZD receptor expression on patients' survival with different t

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Controversial Effects of Diverse Types of Toxoplasma gondii on the Anxiety-like Behavior and Cognitive Impairments in the Animal Model of Alzheimer's Disease

[Galeh, TM](#); [Ghazvini, H](#); (...); [Daryani, A](#)

Sep 2022 |

16 (3)

Background: Toxoplasma gondii is a neurotropic parasite with lifelong persistence in the host brain. Many researchers suggested toxoplasmosis as a risk factor for the development of Alzheimer's disease (AD); however, the link between them has not been fully elucidated. Objectives: The present study was designed to investigate the effects of chronic toxoplasmosis infection with Types I (RH), II (

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Green preparation, characterization, evaluation of anti-melanogenesis effect and in vitro/in vivo safety profile of kojic acid hydrogel as skin lightener formulation

[Gatabi, ZR](#); [Saeedi, M](#); (...); [Hashemi, SMH](#)

Jul 2022 (Early Access) |

The local treatment of kojic acid (KA) as a tyrosinase inhibitor results in inadequate skin absorption and a number of side effects. The current study aims to maximize KA skin delivery. To produce KA-hydrogel, 1% KA was injected into a Chitosan/alginate hydrogel. The impacts of biopolymer proportion on the KA-hydrogel preparations were investigated. Swelling analysis, weight loss analysis, diff

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[Investigation of vaginal and rectal swabs of women infected with COVID-19 in two hospitals covered by Mazandaran University of Medical Sciences, 2020](#)

[Atarod, Z](#); [Zamaniyan, M](#); (...); [Gordani, N](#)

Aug 18 2022 | Mar 2022 (Early Access) |

42 (6) , pp.2225-2229

Due to the emergence of COVID-19 virus worldwide and need to identify ways of transmitting the virus, we conducted a cross-sectional study from July to November 2020 on 80 women with COVID-19 infection was confirmed by nasopharyngeal proper time polymerase chain reaction (RT-PCR). We investigated SARS-CoV-2 in their vaginal and rectal swabs. The results showed that (n = 6, 7.5%) patients had po

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[Development of RFLP method for rapid differentiation of Aspergillus flavus and Aspergillus oryzae, two species with high importance in clinical and food microbiology](#)

[Abastabar, M](#); [Shabanzadeh, S](#); (...); [Hedayati, MT](#)

Aug 2022 |

32 (3)

Aspergillus flavus and Aspergillus oryzae, two species of Aspergillus section Flavi, are of utmost significance in health, medicine, biotechnology, and foods industries. The methods currently used in mycology for the discrimination of these two closely related species were unable to definitively and rapidly distinguish. The present study aimed to develop a restriction fragment length polymorphi

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[Efficient Neural Differentiation of Mouse Embryonic Stem Cells by Mastic Gum](#)

[Yazdian-Robati, R](#); [Tarhriz, V](#); (...); [Abasi, M](#)

Apr 2022 (Early Access) |

Purpose: Promoting neurogenesis is a promising strategy to treat neurodegenerative disorders. In the present study, we aimed to evaluate the effect of mastic gum resin from the Pistacia lentiscus var. Chia (Anacardiaceae family) in proliferation capacity and differentiation of embryonic mesenchymal stem cells into a neural lineage. Methods: For this purpose, mastic gum was applied as a neural in

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Seroprevalence of SARS-COV-2 antibodies among health-care workers exposed to COVID-19 patients in a large reference hospital, Iran

[Pagheh, AS](#); [Asghari, A](#); (...); [Ziaee, M](#)

Apr 2022 |

14 (2) , pp.138-144

Background and Objectives: Health care workers (HCWs) are a high-risk group for acquiring and transmitting severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2) infection. Aim of the study was the evaluation of sero-prevalence of SARS-CoV-2 in a random sample of HCWs at a large acute care hospital in Iran.

Materials and Methods: We collected blood samples of 180 medical staffs from

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Aptamer AS1411-functionalized gold nanoparticle-melittin complex for targeting MCF-7 breast cancer cell line

[Bayat, P](#); [Abnous, K](#); (...); [Mahmoudi, M](#)

Spr 2022 |

9 (2) , pp.164-169

Objective(s): Several studies reported the apoptotic and lytic activity of melittin (Mel) in different tumor cells. In this study, a novel nano-complex was developed composed of AS1411 aptamers, melittin and gold nanoparticle for the treatment of breast cancer cells.

Materials and Methods: Gold nanoparticles (GNP) were synthesized using reduction of tetrachloroauric acid (HAuCl₄). Melittin

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A Whole Genome Sequencing-Based Approach to Track down Genomic Variants in Itraconazole-Resistant Species of Aspergillus from Iran

[Nargesi, S](#); [Valadan, R](#); (...); [Hedayati, MT](#)

Oct 2022 |

8 (10)

The antifungal resistance in non-fumigatus *Aspergillus* spp., as well as *Aspergillus fumigatus*, poses a major therapeutic challenge which affects the entire healthcare community. Mutation occurrence of *cyp51* gene paralogs is the major cause of azole resistance in *Aspergillus* spp. To obtain a full map of genomic changes, an accurate scan of the entire length of the *Aspergillus* genome is necessary

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[Dimethyl Fumarate Attenuates Di-\(2-Ethylhexyl\) Phthalate-Induced Nephrotoxicity Through the Nrf2/HO-1 and NF-kappa B Signaling Pathways](#)

[Ashari, S](#); [Naghsh, N](#); (...); [Bagheri, A](#)

Oct 2022 (Early Access) |

This study aimed to clarify the nephroprotective effect of dimethyl fumarate (DMF) against Di (2-ethylhexyl) phthalate (DEHP)-induced nephrotoxicity in both in vitro and in vivo models. The HEK-293 cells were exposed to different concentrations of DMF plus IC50 concentration of monoethylhexyl phthalate (MEHP) (the main metabolite of DEHP). Then, some of the oxidative stress parameters including

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[New insight into the structural changes of apoferritin pores in the process of doxorubicin loading at an acidic pH: Molecular dynamics simulations](#)

[Mollazadeh, S](#); [Yazdimamaghani, M](#); (...); [Pirhadi, S](#)

Feb 2022 |

141

Apo ferritin (APO-Fr) is one of the most investigated proteins proposed as an advanced structure for drug delivery systems. Herein, molecular dynamics simulation was employed to compare the opening of 3-fold and 4-fold pores in APO-Fr during the partial disassembly process at an acidic pH. We showed that more hydrophilic residues in the surface of 3-fold pores compared to 4-fold pores facilitate

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[Association between rs738408, rs738409 and rs139051 polymorphisms in PNPLA3 gene and non-alcoholic fatty liver disease](#)

[Najafi, M;](#) [Rafiei, A;](#) (...); [Hosseini, V](#)

Mar 2022 |

26

Background and aim: To date, Patatin-like phospholipase domain-containing protein 3 (PNPLA3) polymorphisms have been considered to be a modifier of the non-alcoholic fatty liver disease (NAFLD) in some people from different racial/ethnic groups worldwide. The aim of the current study was the investigation of the possible association between PNPLA3 gene genetic variants and susceptibility to NAF

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[Quercetin ameliorates Di \(2-ethylhexyl\) phthalate-induced nephrotoxicity by inhibiting NF-kappa B signaling pathway](#)

[Ashari, S;](#) [Karami, M;](#) (...); [Mohammadi, H](#)

Apr 28 2022 | Mar 2022 (Early Access) |

11 (2) , pp.272-285

This study aimed to evaluate the possible protective effects of quercetin, a natural flavonoid, against nephrotoxicity induced by Di (2-ethylhexyl) phthalate (DEHP) in kidney tissue of rats and human embryonic kidney (HEK) 293 cell line. The HEK-293 cells were treated with different concentrations of quercetin 24 h before treatment with monoethylhexyl phthalate (MEHP). Male rats were treated wi

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[Nano aptasensors for detection of streptomycin: A review](#)

[Ghalehno, AD;](#) [Saeedi, M;](#) (...); [Yazdian-Robati, R](#)

2022 |

9 (1) , pp.24-33

This review provides a literature update of the progress in optical and electrochemical aptasensors for the detection of streptomycin in human sera and animal-derived foods. The uncontrolled use of antibiotics and rising resistance to them, has created a global problem. Therefore, the detection and quantitation of antibiotics, i.e., streptomycin by robust, easy, and sensitive methods is in grea

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[Five-year surveillance study of clinical and environmental Triazole-Resistant Aspergillus fumigatus isolates in Iran](#)

[Khojasteh, S](#); [Abastabar, M](#); (...); [Badali, H](#)

Oct 2022 (Early Access) |

Background Invasive aspergillosis is one of the most common fungal infections and azole resistance in *Aspergillus fumigatus* (ARAF) is a growing medical concern in high-risk patients. To our knowledge, there is no comprehensive epidemiological surveillance study on the prevalence and incidence of ARAF isolates available in Iran. Objectives The study aimed to report a five-year survey of triazole

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[Harnessing Intranasal Delivery Systems of Sumatriptan for the Treatment of Migraine](#)

[Assadpour, S](#); [Shiran, MR](#); (...); [Sahebkar, A](#)

Jan 15 2022 |

2022

Sumatriptan (ST) is a commonly prescribed drug for treating migraine. The efficiency of several routes of ST administration has been investigated. Recently, the intranasal route with different delivery systems has gained interest owing to its fast-acting and effectiveness. The present study is aimed at reviewing the available studies on novel delivery systems for intranasal ST administration. T

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[Concentration-dependent assembly of Bovine serum albumin molecules in the doxorubicin loading process: Molecular dynamics simulation](#)

[Mollazadeh, S](#); [Babaei, S](#); (...); [Yazdian-Robati, R](#)

May 5 2022 |

640

Bovine serum albumin (BSA) is one of the most investigated proteins, exhibiting high potential for drug delivery. The positively charged doxorubicin (DOX) and negatively charged BSA molecules can interact via non-covalent bonds that can trigger the assembly of BSA and DOX molecules to generate new nanoparticles. We conducted molecular dynamics simulations to assess the concentration-dependent a

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Clinical and molecular aspects of human pegiviruses in the interaction host and infectious agent

[Samadi, M](#); [Salimi, V](#); (...); [Ghaemi, A](#)

Mar 9 2022 |

19 (1)

Background Human pegivirus 1 (HPgV-1) is a Positive-sense single-stranded RNA (+ssRNA) virus, discovered in 1995 as a Flaviviridae member, and the closest human virus linked to HCV. In comparison to HCV, HPgV-1 seems to be lymphotropic and connected to the viral group that infects T and B lymphocytes. HPgV-1 infection is not persuasively correlated to any known human disease; nevertheless, mul

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The assessment of iron deficiency biomarkers in both anemic and non-anemic dialysis patients: A systematic review and meta-analysis

[Shahkarami, N](#); [Nazari, M](#); (...); [Bahmani, A](#)

Jun 2022 |

4 (6) , pp.463-472

All available articles on dialysis patients worldwide with or without iron deficiency were reviewed. Articles published 1 January 2015 to 30 June 2021 were reviewed in Literature databases (PubMed, Scopus, Web of Science, and EBSCO). 163 articles were found in the initial search, the full text of the article was reviewed, and finally, 144 studies were selected. Most existing studies have found

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Iranian National Survey on Tinea Capitis: Antifungal Susceptibility Profile, Epidemiological Characteristics, and Report of Two Strains with a Novel Mutation in SQLE Gene with Homology Modeling

[Abastabar, M](#); [Babaei, M](#); (...); [Shokohi, T](#)

Aug 2022 (Early Access) |

Background The data on the epidemiological and antifungal susceptibility profile of tinea capitis (TC) in Iran has not been updated in recent decades. This report presents the Iranian epidemiological and drug susceptibility data regarding the distribution of dermatophytes species isolated by six national mycology centers for a period of one year (2020-2021).
Material and Methods A total of 2100

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SDF-1 alpha loaded bioengineered human amniotic membrane-derived scaffold transplantation in combination with hyperbaric oxygen improved diabetic wound healing

[Nasiry, D](#); [Khalatbary, AR](#); (...); [Piryaei, A](#)
May 2022 |
133 (5) , pp.489-501

Based on its multifactorial nature, successful treatment of diabetic wounds requires combinatorial approach. In this regard, we hypothesized that engraftment of a bioengineered micro-porous three-dimensional human amniotic membrane-scaffold (HAMS) loaded by SDF-1 alpha (SHAMS) in combination with hyperbaric oxygen (HBO), throughout mobilization and recruitment of endothelial progenitor cells (E

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A dose-related positive effect of inhaled simvastatin-loaded PLGA nanoparticles on paraquat-induced pulmonary fibrosis in rats

[Shahabadi, N](#); [Moshiri, M](#); (...); [Etemad, L](#)
Oct 2022 | Jul 2022 (Early Access) |
131 (4) , pp.251-261

Objective Pulmonary fibrosis is an important complication of subacute paraquat (PQ) poisoning. Here, we reported a novel nanotherapeutic platform for PQ-induced pulmonary fibrosis in animal inhalation models using simvastatin (SV)-loaded into poly(lactic-co-glycolic acid) (PLGA) nanoparticles (NPs). Methods and Materials Eight inhalations of normal saline, PQ (24 mg/kg), PQ plus SV (20 mg/kg),

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Targeted delivery of galbanic acid to colon cancer cells by PLGA nanoparticles incorporated into human mesenchymal stem cells

[Ebrahimian, M](#); [Shahgordi, S](#); (...); [Salmasi, Z](#)
May-jun 2022 |
12 (3) , pp.295-308

Objective: The aim of this study was to investigate the efficacy of mesenchyme stem cells (MSCs) derived from human adipose tissue (hMSCs) as carriers for delivery of galbanic acid (GBA), a potential anticancer agent, loaded into poly (lactic-co-glycolic acid) (PLGA) nanoparticles (nano-engineered hMSCs) against tumor cells.

Materials and Methods: GBA-loaded PLGA nanoparticles (PLGA/GBA)

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[Evaluation of wound healing effect of Solanum nigrum L. leaf extract-loaded sodium alginate nanoparticles embedded in chitosan hydrogel, In vivo study](#)

[Najafpour, F](#); [Arabzadeh, S](#); (...); [Hashemi, M](#)

2022 |

9 (1) , pp.34-42

Objective(s): Wound healing is one of the most fundamental issues in medical science. Solanum nigrum L. has been attracted great attention for its antioxidant, antimicrobial and anti-inflammatory activities. The aim of this study was to evaluate the effect of leaf extract of S. nigrum L-loaded sodium alginate nanoparticles (NPs) embedded in chitosan hydrogel on wound healing.

Materials an

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[Effects of Boswellia species on viral infections with particular attention to SARS-CoV-2](#)

[Jamshidi, Z](#); [Hashemi, M](#); (...); [Kesharwani, P](#)

Oct 2022 | Jul 2022 (Early Access) |

30 (5) , pp.1541-1553

The emergence of pathogenic viruses is a worldwide frequent cause of diseases and, therefore, the design of treatments for viral infections stands as a significant research topic. Despite many efforts, the production of vaccines is faced with many obstacles and the high rate of viral resistance caused a severe reduction in the efficacy of antiviral drugs. However, the attempt of developing nove

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Recent highlights in the immunomodulatory aspects of Treg cell-derived extracellular vesicles: special emphasis on autoimmune diseases and transplantation

[Asemani, Y](#); [Najafi, S](#); (...); [Jafari, R](#)

May 23 2022 |

12 (1)

In order to maintain immunological tolerance to self and non-self antigens, one's T regulatory (Treg) cells play a critical role in the regulation of detrimental inflammation. Treg cells inhibit the immune system in a variety of ways, some of which are contact-dependent and the others are soluble factors. Extracellular vesicles (EVs) are mainly secretory membrane structures that play a pivotal

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New Insights into the Biosensing of Parkinson's Disease Biomarkers: A Concise Review

[Hosseini, ES](#); [Mohammadi, S](#); (...); [Sajadimajd, S](#)

2022 |

29 (22) , pp.3945-3972

Background: Parkinson's disease (PD) is a long-term, degenerative, and neurological disease in which a person loses control of certain body functions. The formulation of novel effective therapeutics for PD as a neurodegenerative disease requires accurate and efficient diagnosis at the early stages. Objective: Analyzing data gathered by measurable signals converted from biological reactions allo

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Evaluation of the anti-melanogenic activity of nanostructured lipid carriers containing auraptene: A natural anti-oxidant agent

[Daneshmand, S](#); [Yazdian-Robati, R](#); (...); [Tayarani-Najaran, Z](#)

2022 |

9 (1) , pp.57-66

Objective(s): In this work, we loaded Auraptene (AUR) into nanostructured lipid carriers (NLCs) and performed an assessment on inhibitory activities of the obtained AUR-NLCs on melanogenesis.

Materials and Methods: AUR-NLCs were prepared through a high shear homogenization and ultrasound method.

Results: Entrapment efficiency and Particle size of the optimized formulation were 103.1

[View full text](#)

Smart delivery of epirubicin to cancer cells using aptamer-modified ferritin nanoparticles

[Yazdian-Robati, R](#); [Bayat, P](#); (...); [Abnous, K](#)

May 28 2022 | Mar 2022 (Early Access) |

30 (5) , pp.567-576

Epirubicin (Epi) is a chemotherapy agent which is commonly used in treatment of cancers. However, despite being efficient, the tendency to use this drug is declining mostly due to its myocardiopathy and drug-resistance of tumour cells. Such side effects could be prevented using targeted nanocarriers. This study aims to evaluate targeted delivery of Epi to colon cancer cells using ferritin nanop

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Global, regional, and national sex differences in the global burden of tuberculosis by HIV status, 1990-2019: results from the Global Burden of Disease Study 2019

[Ledesma, JR](#); [Ma, JN](#); (...); [Kyu, HH](#)

Feb 2022 |

22 (2) , pp.222-241

Background Tuberculosis is a major contributor to the global burden of disease, causing more than a million deaths annually. Given an emphasis on equity in access to diagnosis and treatment of tuberculosis in global health targets, evaluations of differences in tuberculosis burden by sex are crucial. We aimed to assess the levels and trends of the global burden of tuberculosis, with an emphasis

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The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019

[Alvarez, EM](#); [Force, LM](#); (...); [Gebremeskel, TG](#)

Jan 2022 |

23 (1) , pp.27-52

Background In estimating the global burden of cancer, adolescents and young adults with cancer are often overlooked, despite being a distinct subgroup with unique epidemiology, clinical care needs, and societal impact. Comprehensive estimates of the global cancer burden in adolescents and young adults (aged 15-39 years) are lacking. To address this gap, we analysed results from the Global Burde

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[The global burden of cancer attributable to risk factors, 2010-19: a systematic analysis for the Global Burden of Disease Study 2019](#)

[Tran, KB](#); [Lang, JJ](#); (...); [Murray, CJL](#)

Aug 20 2022 |

400 (10352) , pp.563-591

Background Understanding the magnitude of cancer burden attributable to potentially modifiable risk factors is crucial for development of effective prevention and mitigation strategies. We analysed results from the Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) 2019 to inform cancer control planning efforts globally.

Methods The GBD 2019 comparative risk assessment fram

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[Population-level risks of alcohol consumption by amount, geography, age, sex, and year: a systematic analysis for the Global Burden of Disease Study 2020](#)

[Bryazka, D](#); [Reitsma, MB](#); (...); [Madureira-Carvalho, AM](#)

Jul 16 2022 |

400 (10347) , pp.185-235

Background The health risks associated with moderate alcohol consumption continue to be debated. Small amounts of alcohol might lower the risk of some health outcomes but increase the risk of others, suggesting that the overall risk depends, in part, on background disease rates, which vary by region, age, sex, and year.

Methods For this analysis, we constructed burden-weighted dose-respon

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