

جامعة فاروس الاسكندرية

Publications Template

#	Research Title	Field	Abstract	Year of Publication Publishing	Publish ing Link "URL"
1	Maha Abubakr Feissal Rabie, Sanaa A. El Benhawy, Inas M. Masoud, Amal R. R. Arab & Sally A. M. Saleh. Impact of methaemoglobin and oxidative stress on endothelial function in patients with transfusion dependent β-thalassemia.	Medical biochemistry	Transfusion dependent β-thalassemia is a genetic blood disorder characterized by chronic anaemia. Blood transfusion is lifesaving but comes at a cost. Iron overload emerges as a prime culprit as a free radicals damage endothelial cells. Chronic anaemia further disrupts oxygen delivery, exacerbating the oxidative stress. Increased levels of met-haemoglobin and malondialdehyde compromise endothelial function. This research sheds light on the impact of met-haemoglobin and oxidative stress on endothelial function in 50 patients with transfusion dependent β-thalassemia major compared to 50 healthy individuals as control. Blood samples were collected & subjected to CBC, biochemical analysis including creatinine, ferritin, CRP, LDH, and HCV antibodies. Oxidative stress was assessed using met-haemoglobin & malondialdehyde. Endothelial dysfunction was evaluated by endothelial activation and stress index (EASIX). EASIX, met-haemoglobin and malondialdehyde were significantly increased in patients (1.44 ± 0.75, 2.07 ± 0.2, 4.8 ± 0.63; respectively) compared to the control (0.52 ± 0.24,0.88 ± 0.34,0.8 ± 0.34; respectively). Significant strong positive correlation was found between EASIX and met-haemoglobin, malondialdehyde, serum ferritin and CRP ($P = 0.00$, $r = 0.904$, $P = 0.00$, $r = 0.948$, $P = 0.00$, $r = 0.772$, $P = 0.00$, $r = 0.971$; respectively. Methaemoglobin as well as EASIX should be routinely estimated to assess endothelial function especially before the decision of splenectomy. Antioxidant drugs should be supplemented.	2024	https:/ /doi.or g/10.10 38/s41 598- 024- 74930- 3

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Basant A. Abou- Taleb, Wessam F. El- Hadidy, Inas M. Masoud, Noura A. Matar, Hoda S. Hussein. Dihydroquercetin nanoparticles nasal gel is a promising formulation for amelioration of Alzheimer's disease. International Journal of Pharmaceutics. Volume 666, 5 December 2024, 124814	Medical biochemistry	Dihydroquercetin is a natural flavonoid with anti-inflammatory, antioxidant, and neuroprotective activities. Dihydroquercetin exhibits a great neuroprotector promise in Alzheimer's disorder via preventing the aggregation of amyloid-beta-peptide-Aβ(1–42). The goal of the study was to create dihydroquercetin-loaded-chitosan nanoparticles (DHQ-CS NPs) loaded to a mucoadhesive, thermosensitive in-situ gel for direct nasal administration to cure Alzheimer's disorder. Loading drug in chitosan nanoparticles and incorporation into thermosensitive gel enhanced residence time and reduced mucociliary-clearance. Different invitro-physicochemical-characteristics of gels and nanoparticles-characterization were used to evaluate the formulations. The therapeutic effectiveness of DHQ-CS NPs gel was evaluated behaviorally, biochemically and histopathologically in Alzheimer's-rat-model compared to intranasal DHQ gel. The small particles-size was obtained = 235.3 nm of DHQ-CS NPs. The DHQ-CS NPs gel demonstrated a greater release rate compared to the raw DHQ gel. Additionally, the nasal-administration of the DHQ-CS NPs gel showed better In-vivo results compared to DHQ gel, through improvement of memory and learning deficits and also the exploratory behavior and new object memory in streptozotocin induced-Alzheimer rats. Biochemically, the intranasal DHQ-CS NPs gel, showed reduced both Aβ-protein formation and tau protein hyperphosphorylation, inhibition of acetylcholine esterase activity and oxidative stress in the brain with increase of total antioxidants in the brain and serum, compared to DHQ gel. Histopathologically, the DHO-CS NPs nasal gel produced improvement in the hippocampal	2024	https:/ /doi.or g/10.10 16/j.ijp harm.2 024.12 4814
		and tau protein hyperphosphorylation, inhibition of acetylcholine esterase activity and oxidative		

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بامعة فاروس

Sherihan Salaheldin Abdelhamid Ibrahim, Samar M Bassam, Seham El-Hawary, Eman Sheta, Inas M Masoud, Sally A El-Zahaby, Abdulaziz M Al-Mahallawi, Ghada O Hammad. The gastroprotective effect of Yucca filamentosa standardized crude leaves extract versus its nano-cubosomal formulation in ethanol-induced gastric injury. International Immunopharmacology Volume 137, 20 August 2024, 112440.	Medical biochemistry	Yucca filamentosa (YF) is widely used in folk medicine for its anti-inflammatory effects. Our study aimed to evaluate the chemical profile of YF extracts. Additionally, the gastroprotective efficacy of its crude leaf extract and nano-cubosomal formulation was assessed in a rat model of ethanol-induced gastric injury by altering the HMGB-1/RAGE/TLR4/NF-κB pathway. The phytochemical composition of YF was investigated using FTIR spectroscopy and LC-MS/MS techniques. Standardization was further accomplished using HPLC. Rats were treated orally with yucca crude extract or its nano-cubosomal formulation at doses of 25, 50, and 100 mg/kg. Famotidine (50 mg/kg, IP) was used as a reference drug. After 1 h, rats were administered ethanol (1 ml, 95 %, orally). One hour later, the rats were sacrificed, and the serum was separated to determine TNF α and IL-6 levels. Stomachs were excised for the calculation of the ulcer index and histopathological examinations. Stomach tissue homogenate was used to determine MDA and catalase levels. Additionally, the expression levels of HMGB-1/RAGE/TLR4/NF-κB were assessed. Phytochemical analysis confirmed the predominance of steroidal saponins, sucrose, organic and phenolic acids, and kaempferol. The nano-cubosomal formulation demonstrated enhanced gastroprotective, anti-oxidant, and anti-inflammatory efficacy compared to the crude extract at all tested doses. The most prominent effect was observed in rats pretreated with the YF nano-cubosomal formulation at a dose of 100 mg/kg, which was similar to normal control and famotidine-treated rats. Our results highlighted the enhanced gastroprotective impact of the yucca nano-cubosomal formulation in a dose-dependent manner. This suggests its potential use in preventing peptic ulcer recurrence.	2024	https://d oi.org/1 0.1016/j .intimp. 2024.11 2440
Faika Hassanein, Hewida H. Fadel, Amany I. Shehata, Noha Alaa Hamdy & Inas M. Masoud. In silico study to explore the mechanism of Toxoplasma-induced inflammation and target therapy based on sero and salivary Toxoplasma. Scientific Reports 14, 13600 (2024	Medical biochemistry	We aimed to assess salivary and seroprevalence of Toxoplasma immunoglobulins in risky populations and evaluate drug docking targeting TgERP. A cross-sectional study was conducted in Alexandria University hospitals' outpatient clinics. 192 participants were enrolled from September 2022 to November 2023. Anti-Toxoplasma IgG and IgM were determined in serum and saliva by ELISA. An in-Silico study examined TgERP's protein—protein interactions (PPIs) with pro-inflammatory cytokine receptors, anti-inflammatory cytokine, cell cycle progression regulatory proteins, a proliferation marker, and nuclear envelope integrity-related protein Lamin B1. Our findings revealed that anti-T. gondii IgG were detected in serum (66.1%) and saliva (54.7%), with 2.1% of both samples were positive for IgM. Salivary IgG had 75.59% sensitivity, 86.15% specificity, 91.40% PPV, 64.40% NPP, 79.17% accuracy and fair agreement with serum IgG. On the other hand, the sensitivity, specificity, PPV, NPV, and accuracy in detecting salivary IgM were 75.0%, 99.47%, 75.0%, 99.47%, and 98.96%. AUC 0.859 indicates good discriminatory power. Examined synthetic drugs and natural products can target specific amino acids residues of TgERP that lie at the same binding interface with LB1 and Ki67, subsequently, hindering their interaction. Hence, salivary samples can be a promising diagnostic approach. The studied drugs can counteract the pro-inflammatory action of TgERP.	2024	https://d oi.org/1 0.1038/ s41598- 024- 63735-z

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ţ	Maha A Feissal Rabie, Marwa H Gaber, Mostafa A Soula, Inas M Masoud. Endothelail and Stress Index as One of New Prognostic Determinants of COVID- 19 Severity. Afro-E Egyptian Journal of Infectious and Endemic Diseases.2023;13(2):101-113.	Medical biochemistry	COVID-19 pandemic began in China in 2019. The disease course can be unnoticed, mild, aggressive or end by death. Several prognostic markers have been studied in order to minimize the severity of the disease or its danger. This study aims at investigating the prognostic value of Endothelial activation and stress index (EASIX) as a new predictor in addition to some haematological, biochemical, computerized tomography (CT), electrocardiogram (ECG) and echocardiography (Echo) findings as determinants of the COVID-19 severity. Patients and Methods: 105 non vaccinated COVID-19 patients aged 17 89 admitted to a referral hospital in Alexandria, Egypt, from January to August 2022 with positive nasopharyngeal qualitative PCR swabs were included. Considerations include demographics, history, hospital stay, and intensive care unit (ICU) admission. Complete blood picture with differential count, C-reactive protein, ferritin, D Dimer, liver and renal function tests, lactate dehydrogenase, cardiac markers, EASIX, chest CT, ECG, and Echo were done. Results: EASIX along with D-Dimer and ferritin showed statistically significant sensitivity and specificity when analysed as predictors for COVID-19 mortality, need for ICU admission and mechanical ventilation, while lymphocyte/monocyte ratio (LMR) showed statistically significant sensitivity and specificity only for COVID-19 mortality and need for ICU admission. D-Dimer had the highest overall accuracy, followed by ferritin, EASIX, and the lowest accuracy appear in LMR. Conclusion and recommendation: Because of its strong correlation with COVID-19 mortality, ESAIX should be added as a new biomarker to the existing set of biomarkers linked to poor prognosis namely D-Dimer and ferritin.	2023	DOI: 10 .21608/ aeji.202 3.20642 8.1287
•	Amira E. El-Nahasa, Heba M. Elbedaiwya, Inas M. Masoudb, Rania G. Aly c, Maged W. Helmyd,e, Amal H. El-Kamelf. Berberine-loaded zein/hyaluronic acid composite nanoparticles for efficient brain uptake to alleviate neurodegeneration in the pilocarpine model of epilepsy. European Journal of Pharmaceutics and Biopharmaceutics. 2023; 11/4/2023.	Medical biochemistry	Berberine hydrochloride is a plant alkaloid with versatile medicinal applications, yet it has suffered from multiple limitations in its usage. Nonetheless, the acknowledged role of berberine in controlling seizures has fuelled the need to develop a nanosystem capable of delivering it safely and efficiently to the brain. Consequently, zein and hyaluronic acid were chosen for this purpose, and about twenty formulations with different preliminary factors were screened. Afterward, three promising formulations were loaded with berberine and characterized to select an optimum formulation for further in vivo inspection. The B2 formula of particle size of 297.2 nm \pm 1.86 and % entrapment efficiency of 83.75% \pm 1.39 has succeeded in the increment of the brain uptake of berberine. Moreover, compared to free berberine suspension, the severity of pilocarpine-induced status epilepticus in rats was depleted after the subcutaneous administration of B2. The hippocampal tissue of rats receiving B2 showed signs of reduced neuro-degeneration, remarkably lower expression levels of COX-2 and TNF- α , and enhanced antioxidant activity. Finally, the relative safety of the developed system was determined after searching for any sign of intoxication or behavioral changes. In conclusion, the developed berberine loaded composite nanoparticles successfully delivered berberine across the BBB securely to ameliorate the deteriorating impact of pilocarpine-induced epilepsy	2023	https://d oi.org/1 0.1016/j .ejpb.20 23.04.0 08

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	Faika Hassanein,, Inas M. Masoud, Zeinab M. Awwad, Hussin Abdel-Salam, Mohamed Salem, Amany I. Shehata. Microbial bowel infections-induced biochemical and biological abnormalities and their effects on young Egyptian swimmers. Sci Rep 13, 4597 (2023).	Medical biochemistry	Abstract: Swimmers' personal hygiene afects the spread of microbes Aim: The present study aimed to determine the incidence of microbic Egyptian swimmers and its impact on swimmers' scores. From Janu Methods: 528 public club swimmers were examined crosssectionally into two groups according to their star tests and their scores in the conigh score and group 2 with a low score). Stool samples, biochemical were assessed. Results: Microbial infections were 54% for intestinal parasitosis a pylori. The rate of intestinal parasitosis was higher among Gp2 as conalso revealed higher prevalence of Cryptosporidium spp., Ginistolytica, and Cyclospora among Gp2 than Gp1. Swimming infuenced the infectious status that induced anemia, abnormal bloomfeted swimmers with cryptosporidiosis had higher alanine transactedles, and differential cells but lower aspartate transaminase levels, reduction in the biochemical markers including ferritin, lactoferrin, in Gp2, compared to Gp1 and thus afected the swimmers' scores. Conclusion Thus, raising swimmers' hygiene awareness and targeting	al infections among young ary 2020 to June 2021, y. Swimmers were divided competition (group 1 with a l and biological parameters and 2.8% for Helicobacter mpared to Gp1. The results ardia lamblia, Entameba frequency, and duration of pressure, and heart rate. minase levels, white blood Giardiasis showed higher ron, and transferrin among g health education is oblige		https://d oi.org/1 0.21203 /rs.3.rs- 211386 8/v1
•	Ghaleb Oriquat, Inas M. Masoud, Maher A. Kamel, Hebatallah Mohammed Aboudeya, Marwa B. Bakir and Sara A. Shaker .The anti-obesity and anti-steatotic effects of chrysin in rat model of obesity mediated through modulating the hepatic AMPK/mTOR/lipogenesis pathways. Molecules. 2023, 28(4), 1734;.	Medical biochemistry	Abstract: Obesity is a complex multifactorial disease characterized is linked to an increased risk for nonalcoholic fatty liver disease natural polyphenolic compounds that exert interesting pharmacolog anti-inflammatory, and lipid-lowering agents. Aim: In the present is cossible therapeutic effects of the flavonoid chrysin against obesity a role of AMP-activated protein kinase (AMPK)/mammalian target bathways in mediating this effect. Methods: Thirty-two Wistar rats were divided into two groups: combeses rats were subdivided into 4 subgroups, untreated and treated chrysin (25, 50, 75 mg/kg/day for one month). Results: results reveasing ficantly and dose-dependently declined the weight gain, impossible resistance in the obese rats. Chrysin suppressed lipogenestimulated expression of the genes controlling mitochondrial biogenestimulated expression of the genes controlling mitochondrial biogenestimulated expression for the treatment of obesity and NAFLD. Our find that chrysin treatment attenuates weight gain and ameliorates liver obesity by modulating AMPK/mTOR/lipogenesis signaling pathway	(NAFLD). Flavonoids are cical effects as antioxidant, study, we investigated the and NAFLD in rats and the et of rapamycin (mTOR) attrol and obese group. The orally with three doses of aled that chrysin treatment proved hyperglycemia and esis, oxidative stress and esis in the hepatic tissues. The result of t	123	https:// doi.org/ 10.3390 /molecu les2804 1734
	Faika Hassanein, Inas M Masoud, Marwa M Fekry,	Medical biochemistry	Background: Swimming pools are places for practicing sports, a socialization. However, swimming pools can expose swimmers)23	Environ mental
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	Mohamed S Abdel-Latif, Hussein Abdel-Salam, Mohamed Salem, Amany I Shehata . Environmental health aspects and microbial infections of the recreational water .BMC Public Health. 2023;23(1),1-11.		infections for such reswimmers. Methods: 26 pools in A in winter then summer from both the top and containers. Each samp bacteriological quality (TC), fecal coliform, at was checked for parasi and 100% of the examination.	Alexandria, Egypt were check, and other 13 pools were che the bottom of each pool; a to le was divided into three part of water. They were tested for d E. coli. The second part wa tological study. Results: Obtaned water samples have been	environmental health aspects and midisclose the possible risks they ped for water quality; 13 pools were cocked in summer only. Water was cotal of 78 samples were collected in the first part was used for assess or total colony count (TCC), total consumer of the first part was used for assess for total colony count (TCC), total consumer of the first part was used for assess for total colony count (TCC), total consumer of the first part was used for assess for total colony count (TCC), total consumer of the first part was used for assess for total colony count (TCC), total consumer of total colony colony count (TCC), total colony colo	hecked ollected a sterile sing the oliform ird part 78.2%, ards for		health aspects and microbi al infectio ns of the recreati onal
			the collected water sa Cryptosporidium spp., 21.8%, 15.4%, and 14 (5.1%). The frequency are significantly affecte Conclusion: The teste parasitic contamination lamblia, microsporidia improving the disinfect	amples; mainly Cyclospra a Giradia lamblia, Microspor 1%, respectively). Acanthan of cleaning the swimming pooked PI, independently. It was a water samples don't mee in despite high residual chlor, and Blastocystis spp. The tion system are mandatory.	and Isospora (37.2% each), following ridia spp., and Blastocystis spp. (neba spp. was detected but at a lowest blast point of the property of	wed by 34.6%, wer rate d solids High dia, G. aty and garding		water BMC Public Health Full Text (biomed central. com)
10	Induced Osteoporotic Animal Model through the Antioxidant Effect and Wnt5a Non-Canonical Signaling. Antioxidants 2022, 11(3), 508;	Medical biochemistry	through which secondard dactilyfera L. pits is off providing protective per glucocorticoid-induced osteoporotic effect of osteoporosis. Methods: Male rats we high doses of DPE (15 received DEXA (1 mg ipriflavone + DEXA. Find the stress markers, Whit is the histopathology were cameliorative changes	ery osteoporosis can be developed by their balanced, valual otential against oxidative read osteoporosis (GIO). Aim: f date pit extract (DPE) at the pit extract (DPE) at t	in glucocorticoids administration is oped. The therapeutic potential of Pole and diverse phytochemical competions, making it a good candidate. This study evaluates the possible against dexamethasone (DEXA)-it of groups, which received saline, leading to the possible of groups, leading to the groups t	Phoenix position to treat e anti-nduced ow and ups that (A, and cidative femur ting in	2022	https:// doi.org/ 10.3390 /antiox 110305 08
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11	Ibrahim O. Ibrahim, Inas M. Masoud, and Wessam F. El- Hadidy. Pentraxin-3: A Novel specific biomarker for inflammatory bowel Disease Diagnosis. Egypt. Acad. J. Biolog. Sci.(C. Physiology and Molecular biology). 2022; 14(1): 153-163. DOI: 10.21608/EAJBSC.2022.221330 . ISSN 2090-0767.	Medical biochemistry	abolished the osteoclastogenic markers (RANKL/OPG ratio, ACP, TRAP) while enhancing the osteogenic differentiation markers (Runx2, Osx, COL1A1, OCN). Conclusion: DPE restored the balanced proliferation and differentiation of osteoclasts and osteoblasts precursors. DPE can be considered a promising remedy for GIO, especially at a low dose that had more potency. Background: Inflammatory bowel disease (IBD); includes Crohns disease (CD) and ulcerative colitis (UC) is a chronic condition. Endoscopy is the most effective method in the diagnosis of IBD, although it is an invasive, uncomfortable procedure. Pentraxin-3 (PTX-3) is a primary local inflammatory biomarker. Aim: This study aims to prove that PTX-3 shows sensitivity and specificity in the diagnosis of IBD as a non- invasive biomarker. Design and Methods: Thirty-six (45 ± 15years) subjects, were divided into Group I (control): 12 healthy volunteers, group II: 12 CD patients and group III: 12 UC patients. Serum levels of PTX-3, antinuclear antibody (ANA) and C-reactive protein (CRP)as well as fecal calprotectin level were assessed at the start of the study and at the end of 8 weeks mesalazine treatment. Results: revealed a significant elevation of both calprotectin and PTX-3 levels in either CD or UC- patients in comparison to the control, with no significant difference between them regarding CRP and ANA levels. After mesalazine therapy, serum PTX-3 level was significantly decreased in both UC and CD patients, while no significant change has been detected in other studied parameters. Conclusion: PTX-3 can be used as a sensitive, specific, non- invasive inflammatory biomarker for diagnosis and follow-up of IBDs.	2022	10.216 08/eajbs c.2022. 221330
12	Hanan Farouk, Azza Hassan, Faika Hassanein, Inas M. Masoud, Amany I. Shehata, Marwa M. Fekry. Molecular and Microscopical Diagnosis of Cryptosporidial infection among Immunocompromised and Immunocompetent Patients. The Annals of Medical and Health Sciences Research. 2021;11:S5:48-54.	Medical biochemistry	Objective: To study the prevalence of cryptosporidial infection among immunocompromised and immunocompetent patients by using microscopic and molecular examination. Methods: A hospital-based, cross-sectional study was conducted in the Fevers Hospital, Alexandria, Egypt. 300 individuals including 150 patients with immunocompromising conditions (90 with HIV/AIDS and 60 with renal failure and undergoing hemodialysis) and 150 immunocompetent patients (meningitis, acute hepatitis, skin cellulitis and erysipelas) were enrolled in the present work. Stool samples were collected and subjected to modified Ziehl-Neelsen and nested PCR to detect cryptosporidiosis. EDTA – blood samples of immunocompromised patients were collected for CD_{4+} T-cell counting. Results: <i>Cryptosporidium</i> infection rate among immunocompetent Patients was approximately half the rate detected among immunocompromised patients (32% vs. 56%) and the difference was statistically significant ($P < 0.001$). Rural residence and illiteracy were found to be highly associated with <i>Cryptosporidium</i> spp. infection among both immuno-compromised and immuno-competent groups. 54% of infected patient with low CD4T cell count (<200) had moderate oocyst density and 21.7% of them had high cyst density while 50% of those with CD4Tcell count \geq 200 showed low oocyst counts and only 5.3% of them presented with high oocysts density ($P = 0.001$). Only 15 samples with high oocyst densities yielded amplicons.	2021	

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13	Christine A. Georgy , Inas M. Masoud, Khaled Helmy , Mohamed M. Mokhtar , Ebtesam M. Abdalla ,and Noha M. Issa. Associations of the Cannabinoid Receptor -1 Polymorphisms with the Susceptibility to Major Depressive Disorder and the Response to the Antidepressant Escitalopram in a Sample of Egyptian Patients. IOSR Journal Of Pharmacy And Biological Sciences (IOSR-JPBS) e- ISSN:2278-3008, p-ISSN:2319- 7676. Volume 16, Issue 3 Ser. I (May – June 2021), PP 54-61	Medical biochemistry	Compared to MZN, PCR showed a sensitivity of 11.4% and a specificity of 100%. Conclusion: DNA amplification may be inhibited due to the presence of substances as hemoglobin degradation products, bilirubin and bile acids in the feces leading to false-negative PCR results. Meanwhile, MZN staining smears showed enough accuracy for <i>Cryptosporidium</i> diagnosis. Background: The endocannabinoid system, especially the cannabinoid receptor-1 (CNR-1) is associated with depression and antidepressant treatment. Some polymorphisms of CNR1 gene of the cannabinoid receptor-1 are associated with depression and clinical response to antidepressants. Aim: This study investigated the effect of the polymorphisms 4895A/G and 1359 G/A of the CNR1 gene on the etiology of depression, and on response to treatment with Escitalopram. Subjects and methods: CNR1 polymorphisms 4895A/G and 1359 G/A of cases and controls were determined by Polymerase Chain Reaction-Restriction Fragment Length Polymorphism technique. Diagnosis of cases was determined by Diagnostic and Statistical Manual of Mental Disorders-5th edition, and then they were treated with Escitalopram for six weeks. Drug response was determined by Hamilton Rating Scale of Depression. Results: The association between both polymorphisms and Major Depression was not statistically significant. While there was a statistically significant difference between the genotypes (AG and GG) of the polymorphism 4895A/G of responders and non-responders, especially in males (p<0.001). The polymorphism 1359G/A showed no significant difference between the genotypes of responders and non-responders. Conclusion: The polymorphism 4895A/G is not associated with major depression, but is associated with treatment response to Escitalopram, especially in males. While the polymorphism 1359G/A showed no association with major depression or treatment response in Egyptian population.	2021	DOI:10. 9790/30 08- 160301 5461
14	Faika I Hassanein1, Inas M Masoud2, Amany I Shehata. Infection hazard of exposure to intestinal parasites, H. pylori and hepatitis viruses among municipal sewage workers: a neglected high-risk population. Parasitologist United Journal. 2019;7(12:2) P 130-138) – DOI: 10.21608/PUJ.2019.13679.1047.	Medical biochemistry	Background: Wastewater may contain pathogenic human and animal excreta-derived microorganisms that can cause infections. Municipal sewage workers are relevant neglected high-risk population especially in the absence of effective protective equipment and lack of hygienic practices mainly washing hands. Objective: The present study aims to assess the hazards of infection with micro-organisms among municipal sewage workers as a neglected population Methods: A cross-sectional study was conducted on sewage workers from different sectors in Alexandria Governorate, Egypt. Collected stool samples were subjected to the following techniques; Kato-Katz, ether concentration, Jones' Media culture, modified Ziehl-Neelsen, and quick hot Gram-chromotrope staining. Stool samples were also tested for <i>Helicobacter pylori</i> antigen. Serum was separated for detection of viral hepatitis C antibodies (HCV Ab), and HBV surface antigen (HBVs Ag). Results: Out of the 410 examined workers, 289 (70.5%) were infected; among them 111 (38.4%) had mixed infections. It was found that 56.8%, and 31.2% harbored intestinal parasitic infections (IPIs) and <i>H. pylori</i> , respectively; and 12.2% had	2019	DOI: 1 0.2160 8/puj. 2019.1 3679.1 047

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15	Nermine Mogahed, Safaa Ibrahim Khedr, Rasha Abdelmawla Ghazala, Inas Mohamed Masoud. Can miRNA712_3p be a promising biomarker for early diagnosis of toxoplasmosis? Asian Pacific Journal of Tropical Medicine 2018; 11(12): 688-692. doi:10.4103/1995-7645.248341. (ISSN 2352-4146).	Medical biochemistry	helminthic infections. Cryptosporidium spp., and 7.8%, respectively. Almost equal percenta 28,5% respectively). S workers who were in fr young workers (<40 ye rural areas. Conclusion can affect sewage work the importance of self- investigation and treatr Objective: To assess th toxoplasmosis in plasm PCR was used to mean competent and immune Results: Results reveal competent and immune Additionally, an increat parasite density detected	Blastocystis spp. was the mo Entamoeba histolytica/dispand). ages were recorded for single significantly higher rates of a requent contact with sewage. Ears), while hepatitis was signifies: Although almost all the deters via sources other than the approtection measures that shownent. The role of miRNA712_3p as an of mice acutely infected with sure the level of miRNA712 re-suppressed mice were exampled significant up-regulation of the compromised groups in contact in the level of miRNA712 red in liver impression smears. For the detection of Toxop	amounted to 54.6%, and only 5.9 st prevalent parasite (46.8%) follow and <i>Microsporidium</i> spp. (15.6%, de IPI and multiple infections (28 IPIs and <i>H. pylori</i> were observed Also, IPIs were statistically higher ificantly more prevalent among those etected microbiological infectious in occupational hazard, our findings and be in association with regular and a specific biomarker in early detect the Toxoplasma gondii. Methods: Regarding and the second of plasma miRNA712_3p in both in a parison to the control non-infected (2_3p was noticed correspondently). Conclusions: miRNA712_3p can be alasma gondii infection in both in the second of the se	wed by 11.7%, .3% and among among se from hazards call for medical etion of eal-time mmune-fection. mmune-l group. It is the be used	2018	DOI: 10 .4103/1 995- 7645.24 8341
16	rs10887800) in Egyptian hypertensive end stage renal disease patients. The Egyptian Journal of Medical Human Genetic. The Egyptian Journal of	Medical biochemistry	gene located on chrom of the two RNLS get disease in general or s disease (ESRD) patie control study was conc two groups; an end state hypertension and healt Biochemical analysis nucleotide polymor-pl rs2576178 and rs108 https://biotech-asia	nosome 10. Aim: This study as the polymorphisms rs257617 pecifically with hypertensive nts on maintenance hemodical ducted on two hundred and eignge renal disease patients on thy matching individuals as a and Molecular genetic testinism using restriction fractions.		ciation cidney e renal s case ly into rithout nation, single RNLS	2018	https:/ /doi.or g/10.1 016/j.e jmhg.2 018.02 .004
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	Medical Human Genetics		developing ESRD was increased among carriers of AA genotype for the rs10887800 (3.05		
	2018;19: 379-383.		times) $p = 0.001$, $OR = 3.05$, $CI95\%$ (1.558–5.971) and GG genotype for the rs2576178 $p = 0.047$, $OR = 1.040$, $CI95\%$ (1.028, 2.604). Great interest of the result of the resul		
			0.047, OR = 1.949, CI95% (1.028–3.694). Conclusion: Our study revealed that the risk of		
			developing end stage renal diseases was increased among carriers of AA genotype for the		
)		rs10887800 polymorphism and GG genotype for the rs2576178 polymorphism		
	Mohamed E Zayed, Suliman A		This study involved an examination of bacteriuria according to the results of quantitative		
	Alharbi, Inas M Masoud, Reda A		cultures in overall 300 urine samples collected from patients admitted at El-Hussein University		http://d
	Ammar. <u>Utilization of bacteria</u>		Hospital. The infection rate of both E. coli and Klebsiella pneumoniae were found to be 26.92		x.doi.or
	as virulence agents for urinary		and 11.54%; respectively. As the glucose and albumin concentration increased, the number of		g/http:/
	tract infectionin Egyptian	3.6 1' 1	all infectious organisms was greatly increased. Similarly when creatinine concentration elevated		
17		Medical	up to 3.5 g/l, the infectious organisms (Enterobacterfaecalis, Streptococcus sp.(B) group,	2016	/dx.doi.
	Biotechnology Research Asia.	biochemistry	Proteus mirabilis, P. aeruginosa, Enterobactersp. and Citrobacterfreundii) were significantly		org/10.
	Bioteciniology Research 7 Isla.		increased. The effect of sodium chloride (NaCl), calcium oxalate (CaC2O4), magnesium		13005/b
			chloride (MgCl2) and uric acid (C5H4N4O3) concentrations were fluctuated according to the		bra/102
			concentration used and the type of each infectious organism. Noracin was effective against all		9
			tested organisms. Acinetobactersp. recorded 50% resistance to ampicillin while it was sensitive		2
			to all other tested antibiotics.		
	Inas Mohamed M. Mokhtar,				<u>Study</u>
	Mervat M. Mostafa, and Asmaa				the
	A. Aziz. Study the		Background: XRCC1 gene has been extensively investigated both in its function and in its		polymor
	polymorphism in DNA repair		association with cancer risk. The presence of the variant Gln399 allele has been shown to be		phism
	genes (XRCC1) and colorectal		associated with measurable reduced DNA repair capacity. Aim: The present study aimed to		
	adenocarcinoma risk. IJSER		study the association between XRCC1 Arg399Gln polymorphism and colorectal cancer risk,		<u>in DNA</u>
	2013; 4 (9):1571-76 (ISSN		and to investigate their role as susceptibility markers for colorectal cancer. Subjects and method:		<u>repair</u>
	2229-5518.		Twenty colorectal adenocarninoma patients attended Tanta cancer center during the period from		genes
		Medical	December 2010 to May 2011 were enrolled in this study. Matching group of 20 healthy controls		(XRCC
18		biochemistry	was used for comparison. Subgroup analyses based on age groups, sex, and smoking status were	2013	1) and
		biochemistry	further performed. Results: The overall data failed to indicate significant associations between		
			XRCC1 Arg399Gln polymorphism and colorectal cancer risk (Arg/Arg odds ratio (OR) = 1.27;		colorect
			95% CI = 0.34- 4.31; Arg/Gln: OR = 1; 95% CI = 0.27- 3.67; Gln/Gln: OR = 0.474; 95% CI =		<u>al</u>
			0.04 -5.69). In subgroup analyses stratified by age, gender and smoking status similar results		<u>adenoca</u>
			were obtained.		rcinoma
			Conclusion, XRCC1 Arg399Gln polymorphism is not associated with colorectal		risk
			adenocarinoma and is consistent with the results of a recently published meta-analysis.		· · · · · · · · · · · · · · · · · · ·
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