

RESEARCH ARTICLE

Molecular Docking of Active Compounds from Traditional Medicinal Plants as ACE-2 protein (1R4L) inhibitor in searching for COVID-19 drug

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ABSTRACT:

Coronavirus disease known as COVID-19 is a global pandemic caused by severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). SARS-CoV-2 binds to the receptor binding-domain of ACE-2. By blocking it with a specific ligand, we can prevent SARS-CoV-2 binding and therefore prevent its cellular entry and injury. The number of COVID-19 cases is still increasing and yet only 2.5% of Indonesians are fully vaccinated. Moreover, up to now, a specific cure for COVID-19 has not been found yet. However, many traditional medicinal plants have the potency of becoming COVID-19 drugs. Therefore, this study aimed to examine various active compounds derivate from the traditional medicinal plant as an inhibitor of SARS-CoV-2 receptor in human cell termed as ACE2. The activity and drug-likeness of the active compounds were predicted and molecular docking were conducted to identify the interactions between ligands and ACE-2. Toxicity assay was also identified to predict the toxicity class, lethal dose, and organ toxicity. This study showed that indirubin has lower binding energy as compared to the sulabiroids A and MLN-4760 as comparative control and potent inhibitor control, respectively. Indirubin shared similar interaction with amino acid residue to ACE-2 as compared to control. Based on the research result, it was suggested that Indirubin could be developed as a promising compound for COVID-19 antiviral drugs.

KEYWORDS: ACE-2 inhibitor, Antiviral drug, Coronavirus, Indirubin, Sulabiroids A.

INTRODUCTION:

Coronavirus disease or COVID-19 is a global pandemic caused by severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2)¹. This virus is the seventh coronavirus known to infect humans after SARS-CoV, MERS-CoV, HKU1, NL3, OC43, and 229E². It could be transmitted from human to human through respiratory droplets and saliva that entered the human body^{3,4}. Furthermore, the virus binds to angiotensin-converting enzyme 2 (ACE-2) and it induces infection. Moreover, various symptoms are developed, including fever, dry cough, pneumonia, chest pain, and difficulty of breathing^{5,6}. Several COVID-19 patients also continue to experience fatigue, respiratory and neurological symptoms^{3,7}.

SARS-CoV-2 binds to the receptor binding-domain of ACE-2. Continuous mutations in the spike glycoprotein of SARS-CoV-2 showed that variant Alpha in England and variant Delta in India could enhance ACE-2 binding ability and reduced its sensitivity to antibody neutralization^{8,9,10}. Furthermore, it causes a higher spreading rate and viral growth⁹. Blocking the receptor binding-domain of ACE-2 with a specific ligand can prevent SARS-CoV-2 binding and therefore prevent its cellular entry and injury¹¹. The case number of COVID-19 is still increasing up to 1,641,194¹². Meanwhile, only 2.5% of people in Indonesia are fully vaccinated as of April 2021¹³. Furthermore, a specific cure for COVID-19 has not been found yet. Moreover, various drug candidates are still in the preclinical or clinical trial stage^{14,15}. As the fourth most populous country in the world, Indonesia has the urgency for developing COVID-19 drugs.

Various treatment is developed for treating COVID-19, such as convalescent plasm¹⁶, vaccine design, and natural medicine development. The traditional medicine or natural medicine has long been used as prevention or

treatment for human diseases and it gives a positive impact in human immune system^{17,18}. The use of traditional medicinal plants in those practices becomes more common not only in a developing country but also in developed countries. Those medicinal plants can be used as sources for drug development, including COVID-19 antiviral drugs. Khayrani et al. have shown that Sulawesi propolis may prevent the interaction between SARS-CoV-2 and ACE-2¹⁹. Flavonoid and polyphenolic composition have antiviral properties that can be found in traditional medicinal plants²⁰. The (S, S) -2- {1-Carboxy-2- [3- (3,5-Dichloro-Benzyl) -3h-Imidazole-4-Yl] - Ethylamino}-4-Methyl-Pentanoic Acid (MLN-4760), a potent inhibitor which was resolved bound to ACE-2 using X-ray crystallography, and sulabiroins A are commonly used as native and comparative inhibitor respectively^{19,20,21}.

The activity and drug-likeness of the active compounds of traditional medicine plants were predicted and molecular docking were conducted to identify the interaction between the active compounds and ACE-2. Toxicity assay is also conducted to predict the toxicity class, lethal dose, organ toxicity, and toxicity endpoints. This *in silico* study provides initial data for further study *in vitro* and *in vivo* studies. It helped to select potential compounds to reduce the failure rate in research¹⁵. The aim of this study is to predict the ability of the active compounds derivate from traditional medicinal plants as a promising inhibitor of ACE-2 protein.

MATERIALS AND METHODS:

Materials:

Forty-three active compounds data of traditional medicinal plant were obtained from PubChem database (<https://pubchem.ncbi.nlm.nih.gov/>). MLN-4760 and sulabiroins A were selected as native inhibitors and comparative inhibitors, respectively^{19,21}. The data of Simplified Molecular-Input Line-Entry System (SMILES) notation of each compound was collected. Furthermore, the 3D structure of active compounds were obtained in sdf format then converted into pdbqt format with Openbabel application in PyRx software. The 3D structure of ACE-2 in complex with inhibitor MLN-

4760 was obtained through RCSB Protein Data Bank (PDB) (<https://www.rcsb.org/>) with PDB ID 1R4L. Moreover, the 1R4L protein was prepared with ChimeraX software by removing the native ligand and water molecules²².

Methods of Molecular Docking Simulation and Visualization of Ligands and ACE-2 Complex:

Molecular docking was conducted by specific docking with grid size according to MLN-4760 inhibitor. The grid was adjusted by using PyRx software with center position X: 40.2324, Y: 6.5102, Z: 28.6192, and dimension (Å) X: 15.0143, Y: 10.7836, Z: 12.7363. A negative binding affinity score indicated the strength of bonding between the protein and the ligand. The smaller the score, the stronger the bond^{23,24}. Furthermore, the complexes of ACE and potential ligands were visualized by using ChimeraX software and analyzed by using LigPlot+ software to identify the amino acid residues interaction^{22,25}.

Pharmacokinetic Prediction of Potential Ligands:

Drug likeness of potential compounds was analyzed by using SWISS ADME webserver (<http://www.swissadme.ch/index.php>)²⁶. The potential compound is required to fulfill the requirements from the Lipinski Rule of Five²⁷.

Toxicity Analysis:

Toxicity analysis of potential compounds was identified by using ProTox-II webserver (https://tox-new.charite.de/protox_II/index.php?site=compound_input). This analysis aimed to predict toxicity class, lethal dose, organ toxicity, and toxicity endpoints²⁸.

RESULT:

Molecular Docking Simulation and Visualization of Ligands and ACE-2:

Among forty-three compounds of potential ligands, two compounds showed a lower binding affinity score than the native ligand (control). However, quercetin and indirubin had the lowest binding affinity score with -9.0 kcal/mol and -8.9 kcal/mol, respectively (Table 1).

Table 1. The result of binding affinity score between potential compounds and 1Rr 4Ll

No.	Pubchem ID	Ligands Name	Binding Energy (kcal/mol)	No.	Pubchem ID	Ligands Name	Binding Energy (kcal/mol)
1	5280343	Quercetin	-9.0	24	10742	Syringic Acid	-6.3
2	10177	Indirubin	-8.9	25	11787114	Silvestrol	-6.2
3	448281	MLN-4760 (Native Control)	-8.8	26	5281783	Ethyl p-methoxycinnamate	-6.2
4	5280863	Kaempferol	-8.7	27	689043	Caffeic Acid	-6.2
5	5287969	Flavopiridol	-8.6	28	11148	Trimyrustin	-6.2
6	638024	Piperine	-8.6	29	111037	Alpha-Terpinyl Acetate	-6.1
7	969516	Curcumin	-8.6	30	2519	Caffeine	-6.0
8		Sulabiroins A (Comparative Control)	-8.6	31	370	Gallic Acid	-6.0

9	1794427	Chlorogenic Acid	-8.4	32	4276	Myristicin	-6.0
10	9064	Catechin	-8.3	33	6651	Terpin	-6.0
11	3885	Beta-Lapachone	-8.2	34	8468	Vanillic Acid	-6.0
12	285033	Homoharingtonic	-8.1	35	637542	P-Coumaric Acid	-5.8
13	3220	Emodin	-8.1	36	72	Protocatechuic	-5.8
14	3213	Ellipticine	-8.0	37	91749664	2alpha,9-Dihydroxy-1,8-Cineole	-5.7
15	6918670	Ingenol Mebutate	-8.0	38	36284	4-Ipomeanol	-5.6
16	5280961	Genistein	-7.8	39	452548	Teniposide	-5.6
17	5281708	Daidzein	-7.7	40	1254	Menthol	-5.5
18	119287	Cucurbitacin	-7.6	41	26447	Menthone	-5.4
19	64971	Betulinic Acid	-7.4	42	3314	Eugenol	-5.4
20	5281794	6-Shogaol	-6.8	43	11005	Myristic Acid	-5.3
21	119307	Ginsenoside RH2	-6.6	44	10819	Perillyl Alcohol	-5.2
22	445858	Ferulic Acid	-6.4	45	2758	Eucalyptol	-5.1
23	64945	Ursolic Acid	-6.4				

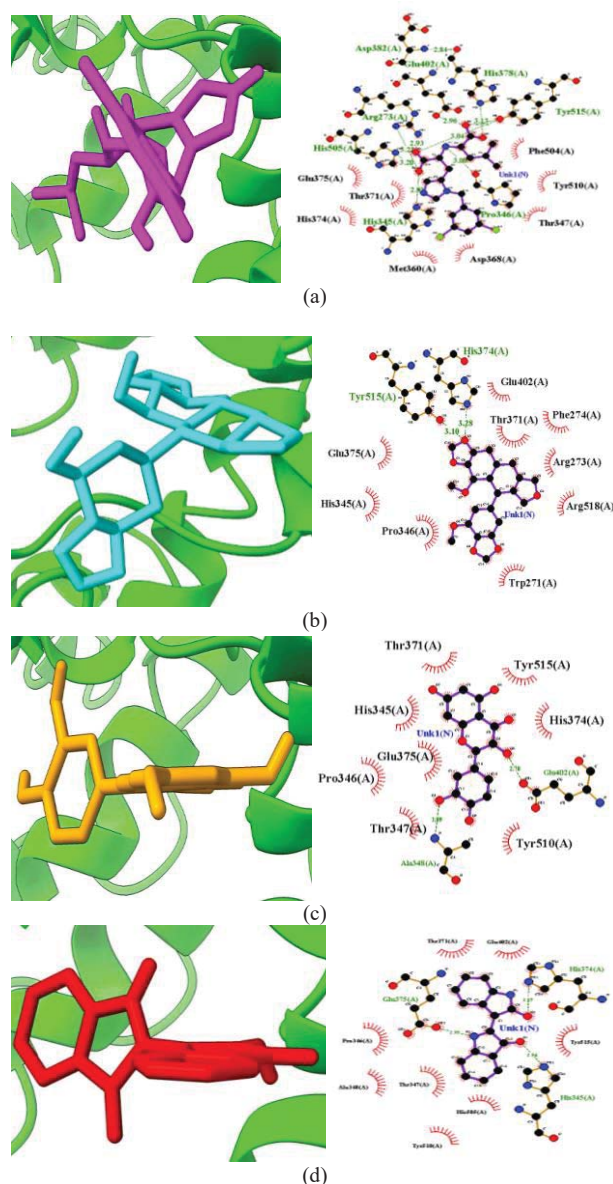


Figure 1. The ligand structures and amino acid residues of (a) MLN-4760; (b) Sulabiroins A; (c) Quercetin; (d) Indirubin complexes with ACE-2 protein

Analysis of Amino Acid Residue within Ligands and ACE-2 Complex

Figure 1 showed that all the ligands were bound at the same location with the native ligand and those ligands could successfully form hydrogen and hydrophobic bond within the binding pocket of ACE-2 receptor. Furthermore, amino acid residues of ligands and ACE-2 receptor complex were analyzed (Table 2).

Table 2. Amino acid residues of ligands and ACE-2 protein complex

Ligands	SMILES	Hydrogen Bonds	Hydrophobic Bonds
MLN-4760 (Native ligand)	<chem>CC(C)CC(C(=O)O)NC(CC1=CN=CN1C2=CC(=CC(=C2)Cl)C(=O)O)</chem>	Arg273: 2.93 Å His345: 2.81 Å Pro346: 3.08 Å His378: 3.13 Å Asp382: 2.84 Å Glu402: 2.96 Å His505: 3.20 Å Tyr515: 3.04 Å	Thr347 , Met360, Asp368, Thr371 , His374, Glu375 , Phe504, Tyr510
Sulabiroins A (Comparative Ligand)	<chem>[H][C@@]12COC[C@@]1([H])[C@H](C1=CC(OC)=C3OC(OC3=C1)C1=C(C2)C=C2OC(=C1)OC</chem>	His374: 3.28 Å Tyr515: 3.10 Å	Trp271, Arg273, Phe274, His345, Pro346, Glu375 , Thr371, Glu402 , Arg518
Quercetin	<chem>C1=CC(=C(C=C1)C2=C(C(=O)C3=C(C=C(C=C3O2)O)O)O)O</chem>	Ala348: 3.09 Å Glu402: 2.78 Å	His345, Pro346, Thr347, Thr371, His374, Glu375 , Tyr510 , Tyr515
Indirubin	<chem>C1=CC=C2C(=C1)C(=C(N2)O)C3=NC4=CC=CC=C4C3=O</chem>	His345: 2.94 Å His374: 2.87 Å Glu375: 2.95 Å	Pro346, Thr347 , Ala348, Thr371 , Glu402 , His505, Tyr510 , Tyr515

Notes: The bold letters indicated the similar bonds as compared to the control

Table 3. Drug-likeness prediction of potential ligands

Compound	Lipinski Rule of Five					Eligibility	GI Absorption
	MW	HBA	HBD	MR	LogP		
MLN-4760 (Native Ligand)	428.31	6	3	107.76	-0.25	Yes	High
Sulabiroins A (Comparative ligand)	398.41	7	0	102.06	2.16	Yes	High
Quercetin	302.24	7	5	78.03	-0.56	Yes	High
Indirubin	262.26	3	2	80.62	1.70	Yes	High

Note: MW=Molecular Weight; HBD=Hydrogen Bond Donors; HBA=Hydrogen Bond Acceptors; LogP=High Lipophilicity; MR=Molar Refractivity

Table 4. Toxicity prediction of potential ligands

Compound	LD ₅₀ (mg/kg ¹)	Toxicity Class	Accuracy (%)	Probability Toxicity				
				H	Ca	Im	M	Cy
MLN-4760 (Native ligand)	3000	5	67.38	0.71 (I)	0.68 (I)	0.93 (I)	0.74 (I)	0.72 (I)
Sulabiroins A (Comparative ligand)	500	4	68.07	0.85 (I)	0.60 (BT)	0.99 (A)	0.63 (BT)	0.91 (I)
Quercetin	159	3	100	0.69 (BT)	0.68 (BT)	0.87 (I)	0.51 (BT)	0.99 (I)
Indirubin	1500	4	54.26	0.57 (BT)	0.61 (BT)	0.89 (I)	0.50 (BT)	0.66 (BT)

Notes: H = Hepatotoxicity; Ca = Carcinogenicity; Im = Immunotoxicity; M = Mutagenicity; Cy = Cytotoxicity. Numbers given in probability toxicity are confidence estimate for the prediction, followed by its status: I = Inactive; A = Active; BT = Below Threshold

The druglikeness of potential ligands:

All the ligand compounds are eligible as drug candidates according to Lipinski Rules of Five and it has high GI absorption (Table 3).

Toxicity of potential ligands:

Table 4 shows that both quercetin and indirubin had a lower toxicity class than the native ligand with LD₅₀ 159 mg.kg⁻¹ and 1500 mg.kg⁻¹, respectively.

DISCUSSION:

The angiotensin-converting enzyme (ACE)-related carboxypeptidase, ACE-2, is a type I integral membrane protein of 805 amino acids that contains one HEXXH-E zinc-binding consensus sequence²¹. ACE-2 is critical for maintaining the homeostasis of renin-angiotensin system (RAS), which regulates the blood pressure and the balance of fluids and salt in various organs, including the heart, kidneys, and lungs²⁹. The ACE-2 implicated the regulation of heart function and is considered as a functional receptor or the coronavirus that causes severe acute respiratory syndrome (SARS). The viral entry process consist of three steps. Firstly, the N-terminal portion of S1 protein of the virus bind to a pocket of the ACE-2 receptor. Secondly, transmembrane protease serine 2 (TMPRSS2) conduct a proteolytic cleavage between the S1 and S2 viral protein. Lastly, after S1 detachment, the remaining S2 unit undergoes a conformational rearrangement which lead to the fusion between the viral and cellular membrane^{30,31}. Certain ligands could be used to inhibit the fusion. In this study, the redocking method was conducted between ACE-2 protein and native ligand MLN-4760 and comparative ligand sulabiroins A to evaluate the accuracy of screening process in comparison with *in vitro* study. The grid size of docking with center position X: 40.2324, Y: 6.5102, Z: 28.6192, and dimension (Å) X: 15.0143, Y:

10.7836, Z: 12.7363 was adjusted into a specific site of native ligand MLN-4760 that has been confirmed with *in vitro* research from the previous study to inhibit the ACE-2 activity¹⁹.

The score of native ligand and comparative ligand showed a different result as compared to the previous journal with binding affinity score -8.8kcal/mol and -8.6 kcal/mol, respectively¹⁹. The score difference could happen due to the different scoring function between the program algorithm used by the previous journal – Autodock Vina – and this research – Autodock 4. Autodock Vina is an empirical and knowledge-based hybrid scoring function, while Autodock 4 were based on the AMBER force field. AutoDock 4 tends to have better correlation coefficient with experimental binding affinity than that by the Autodock Vina approach, thus gives higher accuracy and precision of the calculated binding energies³². This difference in scoring function will gives a slight different outcoming results in the ligand and protein receptors. More hydrophobic interaction would lead to more negative binding energy score. It's because hydrophobic bonds have lower binding energy than hydrogen bonds^{33,34}. In contrast, a higher formation of hydrogen bonds would give more positive result. The binding affinity score demonstrated the amount of energy needed by the ligand to interact with the receptor's binding site. Lower binding affinity is considered more stable and stronger³⁵. Furthermore, the top two candidate compounds based on the molecular docking result were visualized by using Chimera X.

The MLN-4760 formed eight hydrogen bonds in total with five essential amino acid residues such as Arg273, His345, Pro346, His505, and Tyr515 that responsible for substrate binding and catalysis¹⁹. The terminal

carboxylate of MLN-4760 is H-bonded to the side chain of Arg273, His345, and His505; while 2° amine of MLN-4760 is H-bonded to His345 and Pro346¹⁹. Arg273 was found to be critical for substrate binding and its replacement causes enzyme to be inactive³⁶. In addition, the phenolic group of Tyr515 bonds with zinc-bound carboxylate group of MLN-4760 and contribute for the carboxyl anion stabilization by mimicking the zinc-bound tetrahedral intermediate characteristic of nucleophilic attack of the scissile bond by the zinc-bound water during peptide hydrolysis¹⁹. The sulabiroins A compound as the comparative ligand only bond only had an essential residue that is Tyr515 with a distance of 3.10 Å. Among the candidate compounds, indirubin was observed to have an interaction bond with the important residue His345 at 2.94 Å in distance. Indirubin can be found in *Isatis indigotica*, *Indigofera tinctoria*, *Couroupita guianensis*, *Calanthe discolor* Lindl, *Calanthe liukiensis* Schltr, *Baphicacanthus cusia*, *Cephalanceropsis gracilis*, and *Polygonum tinctorium*³⁷. Even though quercetin has the lowest score in binding energy, it has no interaction with the important residue. Therefore, it could be suggested that quercetin has different bond with ACE-2 receptor and has no inhibitor properties *in vitro* or *in vivo*³⁸.

The potency of potential ligands were predicted by using Lipinski Rules of Five (Ro5) with requirement including (1) molecular weight ≤500 Dalton, (2) hydrogen bond acceptors ≤10, (3) hydrogen bond donors ≤5, (4) high lipophilicity ≤5, and (5) molar refractivity between 40-130²⁷. These physicochemical properties are important in oral absorption since it affected the aqueous solubility and intestinal permeability of the compound. Potential ligands will absorbed by duodenum's epithelial cells called enterocytes via paracellular (between enterocytes), transcellular (passive diffusion through enterocytes, the most common drug absorption route), or active transport (use transport protein). The process is followed by diffusion across the cell, through the basolateral membrane, and finally into the blood³⁹. Ligands that fulfill the Ro5 have a higher chance to be orally bioavailable and associated with 90% of orally active drugs that have achieved phase II clinical status²⁷. According to study by Giménez *et al*, among 60 small molecule compounds obtain from 82 drugs listed in IMS-Health Institut, 89% were fit the Ro5 requirements⁴⁰. This finding is highlighted the importance of Ro5 as a pre-filter, but not the only consideration, in drug development.

After absorption, the drug is transported to the liver and undergo hepatic metabolism before reaching the systemic circulatory system⁴⁰. Using drug repeatedly can caused an accumulation of drug and it is by products in the liver and can lead to liver damage or failure, known

as hepatotoxicity. Meanwhile, assessment in toxicity endpoints is needed to avoid the adverse drug reaction in patients. Score in organ toxicity and toxicity endpoints are estimated score which followed by its status. The confidence estimation scores below 0.70 is considered under the threshold and safe. Furthermore, toxicity prediction demonstrated that MLN-4760 had inactivity for hepatotoxicity, carcinogenicity, immunotoxicity, mutagenicity, and cytotoxicity. Moreover, both quercetin and indirubin are also suggested safe and they had no probability for inducing hepatotoxicity, carcinogenicity, immunotoxicity, mutagenicity, and cytotoxicity. Moreover, this study of COVID-19 is necessary to remain studied and updated⁴¹. Furthermore, experiment by using *in vitro* and *in vivo* are still needed for further analysis and confirmed the *in silico* result.

CONCLUSION:

SARS-CoV-2 binds to the receptor binding-domain of human ACE-2. Blocking it with a specific ligand could prevent SARS-CoV-2 binding and therefore prevent its cellular entry. Various ligands derivate from traditional medicinal plants are considered for having huge potential as an antiviral drug. Based on the molecular docking result, Indirubin showed a lower energy binding affinity score as compared to the control. Furthermore, it interacted with similar amino acid residue as control, low toxicity class, and no tendency of organ toxicity. Therefore, it is suggested as a promising compound for further assessment.

CONFLICT OF INTEREST:

The authors have no conflicts of interest regarding this investigation.

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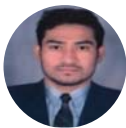
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Author(s): Anil Kumar Kota, Mukthinuthalapati Mathrusri Annapurna

DOI: 10.52711/0974-360X.2022.00641 (<https://www.doi.org/10.52711/0974-360X.2022.00641>)

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In vivo Antidiabetic properties of Etlingera elatior Leaf Extract in Alloxan-Induced Diabetic Rats (AbstractView.aspx?PID=2022-15-9-10)

Author(s): Dora Dayu Rahma Turista, Qurrotu A'yunin Lathifah, Arif Nur Muhammad Ansori, Yulanda Antonius, Gabrielle Ann Villar Posa, Wahyu Choirur Rizky, Tim Godefridus Antonius Dings, Galiya Kazhibayeva, Karina Omarova, Irina Anikina

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To Evaluate the Cardioprotective effect of Hydroalcoholic Extract of *Matricaria chamomilla* Linn in Isoproterenol Induced Myocardial Infarction in Wistar Rats (AbstractView.aspx?PID=2022-15-9-11)

Author(s): Vedanshu Malviya, Ankit Arya, Prashant Burange, Kalpak Gajbhiye, Gauri Rathod, Mukund Tawar

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An in vitro analysis on antagonistic activities of actinomycetes recovered from caves of Garhwal Himalaya against drug resistant pathogens (AbstractView.aspx?PID=2022-15-9-12)

Author(s): Asifa Mushtaq, Seema Rawat, Jay Krishan Tiwari

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Cite: Asifa Mushtaq, Seema Rawat, Jay Krishan Tiwari. An in vitro analysis on antagonistic activities of actinomycetes recovered from caves of Garhwal Himalaya against drug resistant pathogens. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3893-7. doi: 10.52711/0974-360X.2022.00652 (<https://www.doi.org/10.52711/0974-360X.2022.00652>)

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Author(s): V. Nagalakshmi, J. Lavanya, B. Bhavya, V. Riya, B. Venugopal, A. Sai Ramesh

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Author(s): Saif M. Dmour, Haitham Qaralleh, Muhamad Al-Limoun, Khaled M. Khleifat, Moath Alqaraleh, Ali Abdallah Alqudah, Rakan M. Altarawneh

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Author(s): Balram, Pawan Jalwal, Gurvirender Singh

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Author(s): Chaitali Bose, Alak Kumar Syamal, Koushik Bhattacharya

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Qualitative Phytochemical Screening and Antifungal Activity of Ethanol Extract of Young Papaya Seeds (*Carica papaya* L.) against *Candida albicans* (AbstractView.aspx?PID=2022-15-9-19)

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Author(s): Sabiyeva A., Ishmuratova M. Yu., Atazhanova G. A., Smagulov M. K., Zhuravel I. A.

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Author(s): Touahria Tatou, Rahmani Zehour, Rahmani Zineb, Abid Asma, Belguidoum Mahdi, Bensaci Cheyma

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Access:  Closed Access

Cite: Touahria Tatou, Rahmani Zehour, Rahmani Zineb, Abid Asma, Belguidoum Mahdi, Bensaci Cheyma. A Phytochemical Analysis, Antioxidant and Antidiabetic activities in vitro of *Pergularia tomentosa* L. leaves. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3941-6. doi: 10.52711/0974-360X.2022.00660 (<https://www.doi.org/10.52711/0974-360X.2022.00660>)

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(AbstractView.aspx?PID=2022-15-9-20)

An In vitro Evaluation of Potential Free Radical Scavenging Antioxidant activity of selected Novel Synthetic Flavones (AbstractView.aspx?PID=2022-15-9-21)

Author(s): Prabhulingayya S. Bhixavatimath, Akram Naikawadi, Yasmeen A. Maniyar, Mallappa Shalavadi, Gurudatta Maher, Vijayakumar Daroj

DOI: 10.52711/0974-360X.2022.00661 (<https://www.doi.org/10.52711/0974-360X.2022.00661>)

Views: 0 (pdf), 225 (html)

Access:  Closed Access

Cite: Prabhulingayya S. Bhixavatimath, Akram Naikawadi, Yasmeen A. Maniyar, Mallappa Shalavadi, Gurudatta Maher, Vijayakumar Daroj. An In vitro Evaluation of Potential Free Radical Scavenging Antioxidant activity of selected Novel Synthetic Flavones. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3947-1. doi: 10.52711/0974-360X.2022.00661 (<https://www.doi.org/10.52711/0974-360X.2022.00661>)

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(AbstractView.aspx?PID=2022-15-9-21)

Stability Indicating HPTLC Method for Bedaquiline Fumarate (AbstractView.aspx?PID=2022-15-9-22)

Author(s): M. C. Damle, O. A. Shinde

DOI: 10.52711/0974-360X.2022.00662 (<https://www.doi.org/10.52711/0974-360X.2022.00662>)

Views: 0 (pdf), 124 (html)

Access:  Closed Access

Cite: M. C. Damle, O. A. Shinde. Stability Indicating HPTLC Method for Bedaquiline Fumarate. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3952-6. doi: 10.52711/0974-360X.2022.00662 (<https://www.doi.org/10.52711/0974-360X.2022.00662>)

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(AbstractView.aspx?PID=2022-15-9-22)

Antioxidant Activity Test of Red Pidada Leaves (*Sonneratia caseolaris* L.) using ABTS Method (2,2-azinobis-(3-ethylbenzothiazolin)-6-sulfonicacid) (AbstractView.aspx?PID=2022-15-9-23)

Author(s): Eka Siswanto Syamsul, Supomo, Siti Jubaidah, Heri Wijaya, Dwi Lestari, Sandeep Poddar

DOI: 10.52711/0974-360X.2022.00663 (<https://www.doi.org/10.52711/0974-360X.2022.00663>)

Views: 0 (pdf), 191 (html)

Access:  Closed Access

Cite: Eka Siswanto Syamsul, Supomo, Siti Jubaidah, Heri Wijaya, Dwi Lestari, Sandeep Poddar. Antioxidant Activity Test of Red Pidada Leaves (*Sonneratia caseolaris* L.) using ABTS Method (2,2-azinobis-(3-ethylbenzothiazolin)-6-sulfonicacid). *Research Journal of Pharmacy and Technology*. 2022; 15(9):3957-1. doi: 10.52711/0974-360X.2022.00663 (<https://www.doi.org/10.52711/0974-360X.2022.00663>)

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(AbstractView.aspx?PID=2022-15-9-23)

Evaluation and Pharmacokinetic Study in healthy human volunteers of developed bilayer thin films containing Piroxicam and Zolmitriptan (AbstractView.aspx?PID=2022-15-9-24)

Author(s): Bhupinder Bhyan, Dinesh Chandra Bhatt, Sarita Jangra

DOI: 10.52711/0974-360X.2022.00664 (<https://www.doi.org/10.52711/0974-360X.2022.00664>)

Views: 0 (pdf), 246 (html)

Access:  Closed Access

Cite: Bhupinder Bhyan, Dinesh Chandra Bhatt, Sarita Jangra. Evaluation and Pharmacokinetic Study in healthy human volunteers of developed bilayer thin films containing Piroxicam and Zolmitriptan. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3962-8. doi: 10.52711/0974-360X.2022.00664 (<https://www.doi.org/10.52711/0974-360X.2022.00664>)

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(AbstractView.aspx?PID=2022-15-9-24)

Synthesis and Antimicrobial and Anticancer Activity of β -Carboline Analogues (AbstractView.aspx?PID=2022-15-9-25)

Author(s): Avneesh Awasthy, Om Prakash Agrawal

DOI: 10.52711/0974-360X.2022.00665 (<https://www.doi.org/10.52711/0974-360X.2022.00665>)

Views: 0 (pdf), 228 (html)

Access:  Closed Access

Cite: Avneesh Awasthy, Om Prakash Agrawal. Synthesis and Antimicrobial and Anticancer Activity of β -Carboline Analogues. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3969-4. doi: 10.52711/0974-360X.2022.00665 (<https://www.doi.org/10.52711/0974-360X.2022.00665>)

Read More »

(AbstractView.aspx?PID=2022-15-9-25)

The Prognostic value of Serum Ferritin in Breast cancer patients (AbstractView.aspx?PID=2022-15-9-26)

Author(s): Assala Raya, Firas Hussein, Atieh Kamis

DOI: 10.52711/0974-360X.2022.00666 (<https://www.doi.org/10.52711/0974-360X.2022.00666>)

Views: 0 (pdf), 115 (html)

Access:  Closed Access

Cite: Assala Raya, Firas Hussein, Atieh Kamis. The Prognostic value of Serum Ferritin in Breast cancer patients. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3975-9. doi: 10.52711/0974-360X.2022.00666 (<https://www.doi.org/10.52711/0974-360X.2022.00666>)

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(AbstractView.aspx?PID=2022-15-9-26)

7,8-dihydroxyflavone as a Neuroprotective agent in Ischemic Stroke through the Regulation of HIF-1 α Protein (AbstractView.aspx?PID=2022-15-9-27)

Author(s): Safira Dita Arviana, Yuyun Yueniwati, Masruroh Rahayu, Mokhamad Fahmi Rizki Syaban

DOI: 10.52711/0974-360X.2022.00667 (<https://www.doi.org/10.52711/0974-360X.2022.00667>)

Views: 0 (pdf), 242 (html)

Access:  Closed Access

Cite: Safira Dita Arviana, Yuyun Yueniwati, Masruroh Rahayu, Mokhamad Fahmi Rizki Syaban. 7,8-dihydroxyflavone as a Neuroprotective agent in Ischemic Stroke through the Regulation of HIF-1 α Protein. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3980-6. doi: 10.52711/0974-360X.2022.00667 (<https://www.doi.org/10.52711/0974-360X.2022.00667>)

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(AbstractView.aspx?PID=2022-15-9-27)

Serum Carboxylated and Undercarboxylated Osteocalcin association with Coronary Atherosclerosis Disease and Cardiovascular Risk Markers in: Analysis of a Syrian Male Cohort (AbstractView.aspx?PID=2022-15-9-28)

Author(s): Hosam Eddin Shahrour, Sahar Al Fahom, Ghassan Al Massarani, Kenda Jawich, Ahmad Rasheed AlSaadi

DOI: 10.52711/0974-360X.2022.00668 (<https://www.doi.org/10.52711/0974-360X.2022.00668>)

Views: 0 (pdf), 199 (html)

Access:  Closed Access

Cite: Hosam Eddin Shahrour, Sahar Al Fahom, Ghassan Al Massarani, Kenda Jawich, Ahmad Rasheed AlSaadi. Serum Carboxylated and Undercarboxylated Osteocalcin association with Coronary Atherosclerosis Disease and Cardiovascular Risk Markers in: Analysis of a Syrian Male Cohort. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3987-2. doi: 10.52711/0974-360X.2022.00668 (<https://www.doi.org/10.52711/0974-360X.2022.00668>)

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(AbstractView.aspx?PID=2022-15-9-28)

Liquid Chromatographic Method Development and Validation for the Simultaneous Determination of Phenylephrine Hydrochloride, Paracetamol, Caffeine and Diphenhydramine Hydrochloride in Pure and Formulations (AbstractView.aspx?PID=2022-15-9-29)

Author(s): Nandeeshha IM, Basappa C. Yallur, Manjunatha D. Hadagali

DOI: 10.52711/0974-360X.2022.00669 (<https://www.doi.org/10.52711/0974-360X.2022.00669>)

Views: 0 (pdf), 129 (html)

Access:  Closed Access

Cite: Nandeeshha IM, Basappa C. Yallur, Manjunatha D. Hadagali. Liquid Chromatographic Method Development and Validation for the Simultaneous Determination of Phenylephrine Hydrochloride, Paracetamol, Caffeine and Diphenhydramine Hydrochloride in Pure and Formulations. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3993-8. doi: 10.52711/0974-360X.2022.00669 (<https://www.doi.org/10.52711/0974-360X.2022.00669>)

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(AbstractView.aspx?PID=2022-15-9-29)

Correlation of Oxidised LDL with Oxidant and Antioxidant enzymes in subjects with Elevated LDL levels (AbstractView.aspx?PID=2022-15-9-3)

Author(s): Pooja, Ashok Prabhu K, Durga Rao Y, Sowndarya K, Nandini M

DOI: 10.52711/0974-360X.2022.00643 (<https://www.doi.org/10.52711/0974-360X.2022.00643>)

Views: 0 (pdf), 115 (html)

Access:  Closed Access

Cite: Pooja, Ashok Prabhu K, Durga Rao Y, Sowndarya K, Nandini M. Correlation of Oxidised LDL with Oxidant and Antioxidant enzymes in subjects with Elevated LDL levels. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3836-0. doi: 10.52711/0974-360X.2022.00643 (<https://www.doi.org/10.52711/0974-360X.2022.00643>)

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(AbstractView.aspx?PID=2022-15-9-3)

In vitro Anti-cancer, Anti-inflammatory and Anti-arthritis activity of Ethanolic extract of *Ochna obtusata* leaves (AbstractView.aspx?PID=2022-15-9-30)

Author(s): Ravi Kumar Vakkalagadda, Srinivas Lankalapalli

DOI: 10.52711/0974-360X.2022.00670 (<https://www.doi.org/10.52711/0974-360X.2022.00670>)

Views: 0 (pdf), 120 (html)

Access:  Closed Access

Cite: Ravi Kumar Vakkalagadda, Srinivas Lankalapalli. In vitro Anti-cancer, Anti-inflammatory and Anti-arthritis activity of Ethanolic extract of *Ochna obtusata* leaves. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3999-4. doi: 10.52711/0974-360X.2022.00670 (<https://www.doi.org/10.52711/0974-360X.2022.00670>)

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(AbstractView.aspx?PID=2022-15-9-30)

Diagnostic Testing of Hematology Analyzer Equipped with WPC Channel Scattergram in Determining Strains of Hematological Malignancies (AbstractView.aspx?PID=2022-15-9-31)

Author(s): Cynthia Ayu Permatasari, Arifoel Hajat, Made Putra Sedana

DOI: 10.52711/0974-360X.2022.00671 (<https://www.doi.org/10.52711/0974-360X.2022.00671>)

Views: 0 (pdf), 140 (html)

Access:  Closed Access

Cite: Cynthia Ayu Permatasari, Arifoel Hajat, Made Putra Sedana. Diagnostic Testing of Hematology Analyzer Equipped with WPC Channel Scattergram in Determining Strains of Hematological Malignancies. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4005-1. doi: 10.52711/0974-360X.2022.00671 (<https://www.doi.org/10.52711/0974-360X.2022.00671>)

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(AbstractView.aspx?PID=2022-15-9-31)

RP-HPLC bioanalytical Method of Itopride hydrochloride for determination and its Pharmacokinetic applications (AbstractView.aspx?PID=2022-15-9-32)

Author(s): Meenakshi Bhatia, Rameshwar Dass, Goutam Rath

DOI: 10.52711/0974-360X.2022.00672 (<https://www.doi.org/10.52711/0974-360X.2022.00672>)

Views: 0 (pdf), 119 (html)

Access:  Closed Access

Cite: Meenakshi Bhatia, Rameshwar Dass, Goutam Rath. RP-HPLC bioanalytical Method of Itopride hydrochloride for determination and its Pharmacokinetic applications. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4012-6. doi: 10.52711/0974-360X.2022.00672 (<https://www.doi.org/10.52711/0974-360X.2022.00672>)

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(AbstractView.aspx?PID=2022-15-9-32)

Carvedilol- loaded Transdermal Ethosomal gel: Characterization, ex vivo/in vivo Evaluation (AbstractView.aspx?PID=2022-15-9-33)

Author(s): Maha A. Marzouk, Asmaa M. Elbakry, Rawia M. Khalil, Areej W. Zahran

DOI: 10.52711/0974-360X.2022.00673 (<https://www.doi.org/10.52711/0974-360X.2022.00673>)

Views: 0 (pdf), 236 (html)

Access:  Closed Access

Cite: Maha A. Marzouk, Asmaa M. Elbakry, Rawia M. Khalil, Areej W. Zahran. Carvedilol- loaded Transdermal Ethosomal gel: Characterization, ex vivo/in vivo Evaluation. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4017-3. doi: 10.52711/0974-360X.2022.00673 (<https://www.doi.org/10.52711/0974-360X.2022.00673>)

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(AbstractView.aspx?PID=2022-15-9-33)

Antibacterial efficacy of Lemon Grass Oil (*Cymbopogon citratus*) on the type of bacteria and its count in Dental Aerosols (AbstractView.aspx?PID=2022-15-9-34)

Author(s): David Ditto Sharmin, K. Revathi, Jaideep Mahendra, D. Anandhi, M. Arun, J. Jasmine Vigila

DOI: 10.52711/0974-360X.2022.00674 (<https://www.doi.org/10.52711/0974-360X.2022.00674>)

Views: 0 (pdf), 129 (html)

Access:  Closed Access

Cite: David Ditto Sharmin, K. Revathi, Jaideep Mahendra, D. Anandhi, M. Arun, J. Jasmine Vigila. Antibacterial efficacy of Lemon Grass Oil (*Cymbopogon citratus*) on the type of bacteria and its count in Dental Aerosols. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4024-8. doi: 10.52711/0974-360X.2022.00674 (<https://www.doi.org/10.52711/0974-360X.2022.00674>)

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(AbstractView.aspx?PID=2022-15-9-34)

Variation of Determination Glycemic Index of Banana's Tuber of Ambon (*Musa paradisiaca* var. *sapientum*), Kepok Banana (*Musa paradisiaca* var. *formatypica*) and Raja Banana (*Musa paradisiaca* var. *raja*) to Rat (*Rattus norvegicus*) (AbstractView.aspx?PID=2022-15-9-35)

Author(s): Syamsuri Syakri, Surya Ningsi, Hasyrul Hamzah, Riska Zain

DOI: 10.52711/0974-360X.2022.00675 (<https://www.doi.org/10.52711/0974-360X.2022.00675>)

Views: 0 (pdf), 180 (html)

Access:  Closed Access

Cite: Syamsuri Syakri, Surya Ningsi, Hasyrul Hamzah, Riska Zain. Variation of Determination Glycemic Index of Banana's Tuber of Ambon (*Musa paradisiaca* var. *sapientum*), Kepok Banana (*Musa paradisiaca* var. *formatypica*) and Raja Banana (*Musa paradisiaca* var. *raja*) to Rat (*Rattus norvegicus*). *Research Journal of Pharmacy and Technology*. 2022; 15(9):4029-2. doi: 10.52711/0974-360X.2022.00675 (<https://www.doi.org/10.52711/0974-360X.2022.00675>)

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(AbstractView.aspx?PID=2022-15-9-35)

Phytochemical Screening, GC/MS Analysis and Antibacterial Activity of Coriandrum sativum L. Seed (AbstractView.aspx?PID=2022-15-9-36)

Author(s): Zainab Farooq, Zahraa A. E Al Naqqash, Rasha Eldalawy

DOI: 10.52711/0974-360X.2022.00676 (<https://www.doi.org/10.52711/0974-360X.2022.00676>)

Views: 0 (pdf), 154 (html)

Access:  Closed Access

Cite: Zainab Farooq, Zahraa A. E Al Naqqash, Rasha Eldalawy. Phytochemical Screening, GC/MS Analysis and Antibacterial Activity of Coriandrum sativum L. Seed. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4033-6. doi: 10.52711/0974-360X.2022.00676 (<https://www.doi.org/10.52711/0974-360X.2022.00676>)

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(AbstractView.aspx?PID=2022-15-9-36)

Effect of Alkalizing agent variation for Aloe vera Gel Handsanitizer Formulation (AbstractView.aspx?PID=2022-15-9-37)

Author(s): Septilina Melati Sirait, Lintannisa Rahmatia, Riri Enriyani

DOI: 10.52711/0974-360X.2022.00677 (<https://www.doi.org/10.52711/0974-360X.2022.00677>)

Views: 0 (pdf), 436 (html)

Access:  Closed Access

Cite: Septilina Melati Sirait, Lintannisa Rahmatia, Riri Enriyani. Effect of Alkalizing agent variation for Aloe vera Gel Handsanitizer Formulation. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4037-2. doi: 10.52711/0974-360X.2022.00677 (<https://www.doi.org/10.52711/0974-360X.2022.00677>)

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(AbstractView.aspx?PID=2022-15-9-37)

Effect of Coating Thickness and Polyethylene Glycol's Molecular Weight on Diltiazem Hydrochloride Release from Controlled Porosity Osmotic Pump Tablets (AbstractView.aspx?PID=2022-15-9-38)

Author(s): Lomass Soliman, Wehad Ibrahim

DOI: 10.52711/0974-360X.2022.00678 (<https://www.doi.org/10.52711/0974-360X.2022.00678>)

Views: 0 (pdf), 489 (html)

Access:  Closed Access

Cite: Lomass Soliman, Wehad Ibrahim. Effect of Coating Thickness and Polyethylene Glycol's Molecular Weight on Diltiazem Hydrochloride Release from Controlled Porosity Osmotic Pump Tablets. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4043-7. doi: 10.52711/0974-360X.2022.00678 (<https://www.doi.org/10.52711/0974-360X.2022.00678>)

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(AbstractView.aspx?PID=2022-15-9-38)

Recapitulation of Nipah Virus Disease: Multiple strategies for future therapeutics (AbstractView.aspx?PID=2022-15-9-39)

Author(s): Koppala RVS Chaitanya, Venna R Surya Anusha

DOI: 10.52711/0974-360X.2022.00679 (<https://www.doi.org/10.52711/0974-360X.2022.00679>)

Views: 0 (pdf), 220 (html)

Access:  Closed Access

Cite: Koppala RVS Chaitanya, Venna R Surya Anusha. Recapitulation of Nipah Virus Disease: Multiple strategies for future therapeutics. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4048-4. doi: 10.52711/0974-360X.2022.00679 (<https://www.doi.org/10.52711/0974-360X.2022.00679>)

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(AbstractView.aspx?PID=2022-15-9-39)

Test effects of Ethanol *Jatropha gossypifolia* L extract against Diabetic Nephropathy (AbstractView.aspx?PID=2022-15-9-4)

Author(s): Tandi Joni, Maila NFR, Herlambang. W, Nurzafika, Viani Anggi, Handayani TW

DOI: 10.52711/0974-360X.2022.00644 (<https://www.doi.org/10.52711/0974-360X.2022.00644>)

Views: 0 (pdf), 204 (html)

Access:  Closed Access

Cite: Tandi Joni, Maila NFR, Herlambang. W, Nurzafika, Viani Anggi, Handayani TW. Test effects of Ethanol *Jatropha gossypifolia* L extract against Diabetic Nephropathy. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3841-6. doi: 10.52711/0974-360X.2022.00644 (<https://www.doi.org/10.52711/0974-360X.2022.00644>)

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(AbstractView.aspx?PID=2022-15-9-4)

Hepatoprotective Activity of Andrographolide and its Semi-Synthetic Derivatives (AbstractView.aspx?PID=2022-15-9-40)

Author(s): Komal Jain, Chandana Majee

DOI: 10.52711/0974-360X.2022.00680 (<https://www.doi.org/10.52711/0974-360X.2022.00680>)

Views: 0 (pdf), 157 (html)

Access:  Closed Access

Cite: Komal Jain, Chandana Majee. Hepatoprotective Activity of Andrographolide and its Semi-Synthetic Derivatives. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4055-0. doi: 10.52711/0974-360X.2022.00680 (<https://www.doi.org/10.52711/0974-360X.2022.00680>)

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(AbstractView.aspx?PID=2022-15-9-40)

Development and Validation of Stability-indicating assay UHPLC Method for Simultaneous analysis of Dolutegravir, Lamivudine and Tenofovir disoproxil fumarate in Bulk and Pharmaceutical Formulation (AbstractView.aspx?PID=2022-15-9-41)

Author(s): Balaji Thakare, Abhilasha Mittal, Manoj Charde, Rahul Umbarkar, Nitin Kohle, Piyush Chandra, Manoj Kadam

DOI: 10.52711/0974-360X.2022.00681 (<https://www.doi.org/10.52711/0974-360X.2022.00681>)

Views: 0 (pdf), 346 (html)

Access:  Closed Access

Cite: Balaji Thakare, Abhilasha Mittal, Manoj Charde, Rahul Umbarkar, Nitin Kohle, Piyush Chandra, Manoj Kadam. Development and Validation of Stability-indicating assay UHPLC Method for Simultaneous analysis of Dolutegravir, Lamivudine and Tenofovir disoproxil fumarate in Bulk and Pharmaceutical Formulation. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4061-6. doi: 10.52711/0974-360X.2022.00681 (<https://www.doi.org/10.52711/0974-360X.2022.00681>)

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(AbstractView.aspx?PID=2022-15-9-41)

Immunomodulatory Potency Etlingera rubroloba A.D. Poulsen Fruit Ethanol extract against Macrophage Phagocytic Activity and CD4 Levels in Wistar Male Rats (AbstractView.aspx?PID=2022-15-9-42)

Author(s): Muhammad Ilyas Y, Ajeng Diantini, Mohammad Ghozali, I Sahidin, Adryan Fristohady

DOI: 10.52711/0974-360X.2022.00682 (<https://www.doi.org/10.52711/0974-360X.2022.00682>)

Views: 0 (pdf), 132 (html)

Access:  Closed Access

Cite: Muhammad Ilyas Y, Ajeng Diantini, Mohammad Ghozali, I Sahidin, Adryan Fristohady. Immunomodulatory Potency Etlingera rubroloba A.D. Poulsen Fruit Ethanol extract against Macrophage Phagocytic Activity and CD4 Levels in Wistar Male Rats. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4067-2. doi: 10.52711/0974-360X.2022.00682 (<https://www.doi.org/10.52711/0974-360X.2022.00682>)

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(AbstractView.aspx?PID=2022-15-9-42)

Correlation between Toxoplasmosis and Vitamin D Deficiency in women (AbstractView.aspx?PID=2022-15-9-43)

Author(s): Suha A. AL-Fakhar, Wifaq M. Ali, Khalil Ismail A. Mohammed, Saad Hasan Mohammed Ali, Jinan M. Mousa, Israa Qasim Hussein

DOI: 10.52711/0974-360X.2022.00683 (<https://www.doi.org/10.52711/0974-360X.2022.00683>)

Views: 0 (pdf), 105 (html)

Access:  Closed Access

Cite: Suha A. AL-Fakhar, Wifaq M. Ali, Khalil Ismail A. Mohammed, Saad Hasan Mohammed Ali, Jinan M. Mousa, Israa Qasim Hussein. Correlation between Toxoplasmosis and Vitamin D Deficiency in women. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4073-7. doi: 10.52711/0974-360X.2022.00683 (<https://www.doi.org/10.52711/0974-360X.2022.00683>)

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(AbstractView.aspx?PID=2022-15-9-43)

Preliminary Pharmacognostical and Phytochemical Evaluation of stem of *Cichorium intybus* Linn. (Chicory) (AbstractView.aspx?PID=2022-15-9-44)

Author(s): Rajkumari, Vidhu Aeri, Meenakshi Sharma

DOI: 10.52711/0974-360X.2022.00684 (<https://www.doi.org/10.52711/0974-360X.2022.00684>)

Views: 0 (pdf), 117 (html)

Access:  Closed Access

Cite: Rajkumari, Vidhu Aeri, Meenakshi Sharma. Preliminary Pharmacognostical and Phytochemical Evaluation of stem of *Cichorium intybus* Linn. (Chicory). *Research Journal of Pharmacy and Technology*. 2022; 15(9):4078-2. doi: 10.52711/0974-360X.2022.00684 (<https://www.doi.org/10.52711/0974-360X.2022.00684>)

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(AbstractView.aspx?PID=2022-15-9-44)

BRCA1, BCL2, and the RB Tumor Suppressor have abnormal expressions in lung cancer (AbstractView.aspx?PID=2022-15-9-45)

Author(s): Marwa Mohammed Ali Jassim, Shaymaa A. Naji, Majid Mohammed Mahmood

DOI: 10.52711/0974-360X.2022.00685 (<https://www.doi.org/10.52711/0974-360X.2022.00685>)

Views: 0 (pdf), 315 (html)

Access:  Closed Access

Cite: Marwa Mohammed Ali Jassim, Shaymaa A. Naji, Majid Mohammed Mahmood. BRCA1, BCL2, and the RB Tumor Suppressor have abnormal expressions in lung cancer. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4083-7. doi: 10.52711/0974-360X.2022.00685 (<https://www.doi.org/10.52711/0974-360X.2022.00685>)

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(AbstractView.aspx?PID=2022-15-9-45)

Studies on Hypoglycaemic activity of the different extracts of *Solanum torvum* root (AbstractView.aspx?PID=2022-15-9-46)

Author(s): Jitendra Debata, H. K. Sundeep Kumar, S. A. Sreenivas

DOI: 10.52711/0974-360X.2022.00686 (<https://www.doi.org/10.52711/0974-360X.2022.00686>)

Views: 0 (pdf), 231 (html)

Access:  Closed Access

Cite: Jitendra Debata, H. K. Sundeep Kumar, S. A. Sreenivas. Studies on Hypoglycaemic activity of the different extracts of *Solanum torvum* root. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4088-2. doi: 10.52711/0974-360X.2022.00686 (<https://www.doi.org/10.52711/0974-360X.2022.00686>)

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(AbstractView.aspx?PID=2022-15-9-46)

Formulation development and Evaluation of Colon Specific Delivery System of Anti- amoebic Drug (Tinidazole) using different Polysaccharide carriers (AbstractView.aspx?PID=2022-15-9-47)

Author(s): Preetha Mathew, Shajan Abraham, Sneha Sabu, Namitha Navas, Sherin Koshy, Shahana S, Elesy Abraham

DOI: 10.52711/0974-360X.2022.00687 (<https://www.doi.org/10.52711/0974-360X.2022.00687>)

Views: 0 (pdf), 269 (html)

Access:  Closed Access

Cite: Preetha Mathew, Shajan Abraham, Sneha Sabu, Namitha Navas, Sherin Koshy, Shahana S, Elesy Abraham. Formulation development and Evaluation of Colon Specific Delivery System of Anti- amoebic Drug (Tinidazole) using different Polysaccharide carriers. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4093-8. doi: 10.52711/0974-360X.2022.00687 (<https://www.doi.org/10.52711/0974-360X.2022.00687>)

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(AbstractView.aspx?PID=2022-15-9-47)

Collagen Thickness and Density in BALB/c Mice Exposed to UVB Light after using Siam Weeds Cream (*Chromolaena odorata* L.) (AbstractView.aspx?PID=2022-15-9-48)

Author(s): Karlina Amir Tahir, Khairuddin Djawad, Sartini Sartini, Arief Budiyo, Ahmad Lalo, Syatirah Jalaluddin, Maulita Indrisari, Syamsuri Syakri, Asrul Ismail, Khaerani, Anshari Masri, Upik A. Miskad

DOI: 10.52711/0974-360X.2022.00688 (<https://www.doi.org/10.52711/0974-360X.2022.00688>)

Views: 0 (pdf), 132 (html)

Access:  Closed Access

Cite: Karlina Amir Tahir, Khairuddin Djawad, Sartini Sartini, Arief Budiyo, Ahmad Lalo, Syatirah Jalaluddin, Maulita Indrisari, Syamsuri Syakri, Asrul Ismail, Khaerani, Anshari Masri, Upik A. Miskad. Collagen Thickness and Density in BALB/c Mice Exposed to UVB Light after using Siam Weeds Cream (*Chromolaena odorata* L.). *Research Journal of Pharmacy and Technology*. 2022; 15(9):4099-4. doi: 10.52711/0974-360X.2022.00688 (<https://www.doi.org/10.52711/0974-360X.2022.00688>)

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(AbstractView.aspx?PID=2022-15-9-48)

The Effect of Atorvastatin on Lipid Profile and Inflammatory Marker in patient with Diabetes Dyslipidemia (AbstractView.aspx?PID=2022-15-9-49)

Author(s): Rezlie Bellatasie, Suharjono Suharjono, Wiwid Samsulhadi, Nur Palestin Ayumuyas

DOI: 10.52711/0974-360X.2022.00689 (<https://www.doi.org/10.52711/0974-360X.2022.00689>)

Views: 0 (pdf), 128 (html)

Access:  Closed Access

Cite: Rezlie Bellatasie, Suharjono Suharjono, Wiwid Samsulhadi, Nur Palestin Ayumuyas. The Effect of Atorvastatin on Lipid Profile and Inflammatory Marker in patient with Diabetes Dyslipidemia. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4105-0. doi: 10.52711/0974-360X.2022.00689 (<https://www.doi.org/10.52711/0974-360X.2022.00689>)

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(AbstractView.aspx?PID=2022-15-9-49)

Isolation and Identification of Antioxidant and α -glucosidase Inhibitor Compound from Prospective Extract of Acacia Bark from Indonesia (AbstractView.aspx?PID=2022-15-9-5)

Author(s): Muhammad I. Aulia, Rita K. Sari, Deded S. Nawawi, Rizna T. Dewi

DOI: 10.52711/0974-360X.2022.00645 (<https://www.doi.org/10.52711/0974-360X.2022.00645>)

Views: 0 (pdf), 220 (html)

Access:  Closed Access

Cite: Muhammad I. Aulia, Rita K. Sari, Deded S. Nawawi, Rizna T. Dewi. Isolation and Identification of Antioxidant and α -glucosidase Inhibitor Compound from Prospective Extract of Acacia Bark from Indonesia. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3847-3. doi: 10.52711/0974-360X.2022.00645 (<https://www.doi.org/10.52711/0974-360X.2022.00645>)

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(AbstractView.aspx?PID=2022-15-9-5)

Phytochemical Screening, Total Flavonoid, Phenolic content assays and Antioxidant activity of selected Unani Formulations (AbstractView.aspx?PID=2022-15-9-50)

Author(s): K. Ashok Kumar, Firoj A. Tamboli, Harinath N. More, Kamal M. Alaskar, Prashant G. Tandale

DOI: 10.52711/0974-360X.2022.00690 (<https://www.doi.org/10.52711/0974-360X.2022.00690>)

Views: 0 (pdf), 282 (html)

Access:  Closed Access

Cite: K. Ashok Kumar, Firoj A. Tamboli, Harinath N. More, Kamal M. Alaskar, Prashant G. Tandale. Phytochemical Screening, Total Flavonoid, Phenolic content assays and Antioxidant activity of selected Unani Formulations. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4111-4. doi: 10.52711/0974-360X.2022.00690 (<https://www.doi.org/10.52711/0974-360X.2022.00690>)

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(AbstractView.aspx?PID=2022-15-9-50)

Synthesis and Characterization of Tetrahydro-Isoquinoline containing Schiff's bases (AbstractView.aspx?PID=2022-15-9-51)

Author(s): Anupama Roy, Sushil Kumar, Arun Kumar Sharma, Bibekananda Meher

DOI: 10.52711/0974-360X.2022.00691 (<https://www.doi.org/10.52711/0974-360X.2022.00691>)

Views: 0 (pdf), 208 (html)

Access:  Closed Access

Cite: Anupama Roy, Sushil Kumar, Arun Kumar Sharma, Bibekananda Meher. Synthesis and Characterization of Tetrahydro-Isoquinoline containing Schiff's bases. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4115-8. doi: 10.52711/0974-360X.2022.00691 (<https://www.doi.org/10.52711/0974-360X.2022.00691>)

Read More »

(AbstractView.aspx?PID=2022-15-9-51)

Public perceptions of the COVID-19 Pandemic: A National Cross-sectional Study (AbstractView.aspx?PID=2022-15-9-52)

Author(s): Rawan H. Alsharedeh, Nida Alshraiedeh, Rawan Huwaitat, Mamduh Alqatan, Esra' O. Taybeh, Amjad Z. Alrosan, Ghaith B. Heilat

DOI: 10.52711/0974-360X.2022.00692 (<https://www.doi.org/10.52711/0974-360X.2022.00692>)

Views: 0 (pdf), 153 (html)

Access:  Closed Access

Cite: Rawan H. Alsharedeh, Nida Alshraiedeh, Rawan Huwaitat, Mamduh Alqatan, Esra' O. Taybeh, Amjad Z. Alrosan, Ghaith B. Heilat. Public perceptions of the COVID-19 Pandemic: A National Cross-sectional Study. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4119-7. doi: 10.52711/0974-360X.2022.00692 (<https://www.doi.org/10.52711/0974-360X.2022.00692>)

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(AbstractView.aspx?PID=2022-15-9-52)

Analytical Method Development and Validation of Trimethylazanium containing Anti-leishmanial Phospholipid Drug Miltefosine by Liquid Chromatography Quadruple Tandem Mass Spectrometry (LC-ESI-MS/MS) API-2000 (AbstractView.aspx?PID=2022-15-9-53)

Author(s): Pallab Mandal, Pradip Kundu, Soumya Chakraborty, Rakesh Bera, Nilendra Chatterjee, Sourav Poddar, D.P. Ghosh, Tapan Kumar Pal

DOI: 10.52711/0974-360X.2022.00693 (<https://www.doi.org/10.52711/0974-360X.2022.00693>)

Views: 0 (pdf), 161 (html)

Access:  Closed Access

Cite: Pallab Mandal, Pradip Kundu, Soumya Chakraborty, Rakesh Bera, Nilendra Chatterjee, Sourav Poddar, D.P. Ghosh, Tapan Kumar Pal. Analytical Method Development and Validation of Trimethylazanium containing Anti-leishmanial Phospholipid Drug Miltefosine by Liquid Chromatography Quadruple Tandem Mass Spectrometry (LC-ESI-MS/MS) API-2000. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4128-4. doi: 10.52711/0974-360X.2022.00693 (<https://www.doi.org/10.52711/0974-360X.2022.00693>)

Read More »

(AbstractView.aspx?PID=2022-15-9-53)

Molecular Analysis of bacteria isolated from the soil for its Potential Agnostic activity (AbstractView.aspx?PID=2022-15-9-54)

Author(s): K. Vinodhini, S. Kavitha, T. Saranya, K. Geethalakshmi

DOI: 10.52711/0974-360X.2022.00694 (<https://www.doi.org/10.52711/0974-360X.2022.00694>)

Views: 0 (pdf), 223 (html)

Access:  Closed Access

Cite: K. Vinodhini, S. Kavitha, T. Saranya, K. Geethalakshmi. Molecular Analysis of bacteria isolated from the soil for its Potential Agnostic activity. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4135-8. doi: 10.52711/0974-360X.2022.00694 (<https://www.doi.org/10.52711/0974-360X.2022.00694>)

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(AbstractView.aspx?PID=2022-15-9-54)

Potential Test of Soy-yamghurt against Antidiabetic in male white rats (*Rattus norvegicus*) Streptozotocin induced (AbstractView.aspx?PID=2022-15-9-55)

Author(s): Tien Wahyu Handayani, Viani Anggi, Afrizal, Magfirah, Joni Tandil

DOI: 10.52711/0974-360X.2022.00695 (<https://www.doi.org/10.52711/0974-360X.2022.00695>)

Views: 0 (pdf), 122 (html)

Access:  Closed Access

Cite: Tien Wahyu Handayani, Viani Anggi, Afrizal, Magfirah, Joni Tandil. Potential Test of Soy-yamghurt against Antidiabetic in male white rats (*Rattus norvegicus*) Streptozotocin induced. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4139-3. doi: 10.52711/0974-360X.2022.00695 (<https://www.doi.org/10.52711/0974-360X.2022.00695>)

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(AbstractView.aspx?PID=2022-15-9-55)

A Comparative Study on Mono-therapy and Combination Therapy of Additive Drugs (Rebamipide and Pantoprazole) with Amla and Honey combination for the Treatment of Gastroesophageal Reflux Disease and Intestinal motility (AbstractView.aspx?PID=2022-15-9-56)

Author(s): Mazumder Avijit, Kumar Naveen, Das Saumya, Yadav Kumar Shivam

DOI: 10.52711/0974-360X.2022.00696 (<https://www.doi.org/10.52711/0974-360X.2022.00696>)

Views: 0 (pdf), 140 (html)

Access:  Closed Access

Cite: Mazumder Avijit, Kumar Naveen, Das Saumya, Yadav Kumar Shivam. A Comparative Study on Mono-therapy and Combination Therapy of Additive Drugs (Rebamipide and Pantoprazole) with Amla and Honey combination for the Treatment of Gastroesophageal Reflux Disease and Intestinal motility. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4144-0. doi: 10.52711/0974-360X.2022.00696 (<https://www.doi.org/10.52711/0974-360X.2022.00696>)

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(AbstractView.aspx?PID=2022-15-9-56)

Formulation of methyldopa 250 mg Tablets by direct compression using a Quality by Design approach (AbstractView.aspx?PID=2022-15-9-57)

Author(s): Murungi Isaac Baguma, Mbali Luvuno-Keele, Gauda Mahlatsi, Nelesh Jaganath

DOI: 10.52711/0974-360X.2022.00697 (<https://www.doi.org/10.52711/0974-360X.2022.00697>)

Views: 0 (pdf), 246 (html)

Access:  Closed Access

Cite: Murungi Isaac Baguma, Mbali Luvuno-Keele, Gauda Mahlatsi, Nelesh Jaganath. Formulation of methyldopa 250 mg Tablets by direct compression using a Quality by Design approach. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4151-7. doi: 10.52711/0974-360X.2022.00697 (<https://www.doi.org/10.52711/0974-360X.2022.00697>)

Read More »

(AbstractView.aspx?PID=2022-15-9-57)

Fabrication and Evaluation of Solid Self Emulsifying Drug Delivery System of Dolutegravir sodium by using Adsorption to Solid Carrier Techniques (AbstractView.aspx?PID=2022-15-9-58)

Author(s): Hemant A. Deokule, Smita S. Pimple, Kiran C. Mahajan, Praveen D. Chaudhari

DOI: 10.52711/0974-360X.2022.00698 (<https://www.doi.org/10.52711/0974-360X.2022.00698>)

Views: 0 (pdf), 230 (html)

Access:  Closed Access

Cite: Hemant A. Deokule, Smita S. Pimple, Kiran C. Mahajan, Praveen D. Chaudhari. Fabrication and Evaluation of Solid Self Emulsifying Drug Delivery System of Dolutegravir sodium by using Adsorption to Solid Carrier Techniques. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4158-5. doi: 10.52711/0974-360X.2022.00698 (<https://www.doi.org/10.52711/0974-360X.2022.00698>)

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(AbstractView.aspx?PID=2022-15-9-58)

Development of commercially feasible and Cost-effective tablet of Solifenacin succinate that can be compounded into an oral suspension (AbstractView.aspx?PID=2022-15-9-59)

Author(s): Packiaraj Jeyachandran Manohari, Venkateswaran Chidambaram Seshadri, Narendra Reddy Parvatha Janarthana Reddy, Sumathi Vinay Rao, Harshavardhana Reddy Venkatarangareddy, Janakiraman Kunchithapatham, Mahendhirababu Sankar, Guhan Himadeep Chowdary Eswara Rao, Srihariteja Seelamantula, Sathyanarayana Reddy Sanivarapu Venkata

DOI: 10.52711/0974-360X.2022.00699 (<https://www.doi.org/10.52711/0974-360X.2022.00699>)

Views: 0 (pdf), 193 (html)

Access:  Closed Access

Cite: Packiaraj Jeyachandran Manohari, Venkateswaran Chidambaram Seshadri, Narendra Reddy Parvatha Janarthana Reddy, Sumathi Vinay Rao, Harshavardhana Reddy Venkatarangareddy, Janakiraman Kunchithapatham, Mahendhirababu Sankar, Guhan Himadeep Chowdary Eswara Rao, Srihariteja Seelamantula, Sathyanarayana Reddy Sanivarapu Venkata. Development of commercially feasible and Cost-effective tablet of Solifenacin succinate that can be compounded into an oral suspension. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4166-2. doi: 10.52711/0974-360X.2022.00699 (<https://www.doi.org/10.52711/0974-360X.2022.00699>)

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(AbstractView.aspx?PID=2022-15-9-59)

Comparative Evaluation of Surface Roughness of different Composites and its effect on Colour Stability of the Restoration (AbstractView.aspx?PID=2022-15-9-6)

Author(s): Nalini B, Srinivas Kumar Ch, Narsimha Rao VV

DOI: 10.52711/0974-360X.2022.00646 (<https://www.doi.org/10.52711/0974-360X.2022.00646>)

Views: 0 (pdf), 243 (html)

Access:  Closed Access

Cite: Nalini B, Srinivas Kumar Ch, Narsimha Rao VV. Comparative Evaluation of Surface Roughness of different Composites and its effect on Colour Stability of the Restoration. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3854-0. doi: 10.52711/0974-360X.2022.00646 (<https://www.doi.org/10.52711/0974-360X.2022.00646>)

Read More »

(AbstractView.aspx?PID=2022-15-9-6)

Chemical, Microbial and Sensory Stability Study of Infant Formula during Consumption (AbstractView.aspx?PID=2022-15-9-60)

Author(s): El-Waseif M. A., Heba A. El-Ghareeb, Walied B., Ahmed M., Motaz M.

DOI: 10.52711/0974-360X.2022.00700 (<https://www.doi.org/10.52711/0974-360X.2022.00700>)

Views: 0 (pdf), 213 (html)

Access:  Closed Access

Cite: El-Waseif M. A., Heba A. El-Ghareeb, Walied B., Ahmed M., Motaz M. Chemical, Microbial and Sensory Stability Study of Infant Formula during Consumption. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4173-1. doi: 10.52711/0974-360X.2022.00700 (<https://www.doi.org/10.52711/0974-360X.2022.00700>)

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(AbstractView.aspx?PID=2022-15-9-60)

Clinical Efficacy of Cow Urine Distillate with and without Therapeutic Purgation in the Management of Psoriasis: Two Case Reports (AbstractView.aspx?PID=2022-15-9-61)

Author(s): K.S. Girhepunje, Varsha Gupta, V. K. Srivastava, O.P. Singh

DOI: 10.52711/0974-360X.2022.00701 (<https://www.doi.org/10.52711/0974-360X.2022.00701>)

Views: 0 (pdf), 136 (html)

Access:  Closed Access

Cite: K.S. Girhepunje, Varsha Gupta, V. K. Srivastava, O.P. Singh. Clinical Efficacy of Cow Urine Distillate with and without Therapeutic Purgation in the Management of Psoriasis: Two Case Reports. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4182-6. doi: 10.52711/0974-360X.2022.00701 (<https://www.doi.org/10.52711/0974-360X.2022.00701>)

Read More »

(AbstractView.aspx?PID=2022-15-9-61)

Synthesis of Novel Bioactive compounds of 5-arylidene-2-imino-thiazolidin-4-ones as Antimicrobial agents (AbstractView.aspx?PID=2022-15-9-62)

Author(s): Ahmed N. Ayyash, Entesar J. Fadhil, Zainab H. Mohammad

DOI: 10.52711/0974-360X.2022.00702 (<https://www.doi.org/10.52711/0974-360X.2022.00702>)

Views: 0 (pdf), 113 (html)

Access:  Closed Access

Cite: Ahmed N. Ayyash, Entesar J. Fadhil, Zainab H. Mohammad. Synthesis of Novel Bioactive compounds of 5-arylidene-2-imino-thiazolidin-4-ones as Antimicrobial agents. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4187-1. doi: 10.52711/0974-360X.2022.00702 (<https://www.doi.org/10.52711/0974-360X.2022.00702>)

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(AbstractView.aspx?PID=2022-15-9-62)

GC-MS Analysis of bioactive compounds in Ethanolic extract of *Drymaria cordata* (L.) Willd. ex Roem. and Schult. (AbstractView.aspx?PID=2022-15-9-63)

Author(s): Indira M. N.

DOI: 10.52711/0974-360X.2022.00703 (<https://www.doi.org/10.52711/0974-360X.2022.00703>)

Views: 0 (pdf), 122 (html)

Access:  Closed Access

Cite: Indira M. N. GC-MS Analysis of bioactive compounds in Ethanolic extract of *Drymaria cordata* (L.) Willd. ex Roem. and Schult. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4192-5. doi: 10.52711/0974-360X.2022.00703 (<https://www.doi.org/10.52711/0974-360X.2022.00703>)

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(AbstractView.aspx?PID=2022-15-9-63)

Concordance of Proteinuria Examination Results using Dipstick Urine, Albumin-Creatinine Ratio, and Immunoassay in Diabetes Mellitus Type-2 (AbstractView.aspx?PID=2022-15-9-64)

Author(s): Charles Marihot Sibagariang, Ferdy Royland Marpaung

DOI: 10.52711/0974-360X.2022.00704 (<https://www.doi.org/10.52711/0974-360X.2022.00704>)

Views: 0 (pdf), 103 (html)

Access:  Closed Access

Cite: Charles Marihot Sibagariang, Ferdy Royland Marpaung. Concordance of Proteinuria Examination Results using Dipstick Urine, Albumin-Creatinine Ratio, and Immunoassay in Diabetes Mellitus Type-2. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4196-9. doi: 10.52711/0974-360X.2022.00704 (<https://www.doi.org/10.52711/0974-360X.2022.00704>)

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(AbstractView.aspx?PID=2022-15-9-64)

Insilico Docking of Cyanidin on Molecular Proteins of Mitogen-Activated Protein Kinase (MAPK) Pathway (AbstractView.aspx?PID=2022-15-9-65)

Author(s): Thivya Rajeshwary A, Padmanaban R, Swethasri S, Vimalavathini R, Sindhuja A

DOI: 10.52711/0974-360X.2022.00705 (<https://www.doi.org/10.52711/0974-360X.2022.00705>)

Views: 0 (pdf), 162 (html)

Access:  Closed Access

Cite: Thivya Rajeshwary A, Padmanaban R, Swethasri S, Vimalavathini R, Sindhuja A. Insilico Docking of Cyanidin on Molecular Proteins of Mitogen-Activated Protein Kinase (MAPK) Pathway. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4200-3. doi: 10.52711/0974-360X.2022.00705 (<https://www.doi.org/10.52711/0974-360X.2022.00705>)

Read More »

(AbstractView.aspx?PID=2022-15-9-65)

Study the Epidemiology of Antibiotics Resistance in Ramadi Hospitals of Iraq (AbstractView.aspx?PID=2022-15-9-66)

Author(s): Laith Muslih Najeeb, Safaa Abed Latef Al Meani, Ali Hazim Abdulkareem, Ziyad Hameed Fyadh, Mohammed Mukhles Ahmed

DOI: 10.52711/0974-360X.2022.00706 (<https://www.doi.org/10.52711/0974-360X.2022.00706>)

Views: 0 (pdf), 109 (html)

Access:  Closed Access

Cite: Laith Muslih Najeeb, Safaa Abed Latef Al Meani, Ali Hazim Abdulkareem, Ziyad Hameed Fyadh, Mohammed Mukhles Ahmed. Study the Epidemiology of Antibiotics Resistance in Ramadi Hospitals of Iraq. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4204-7. doi: 10.52711/0974-360X.2022.00706 (<https://www.doi.org/10.52711/0974-360X.2022.00706>)

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(AbstractView.aspx?PID=2022-15-9-66)

Efficacy of Oral Glucosamine Sulphate and Sulfasalazine combination in the treatment of Osteoarthritis (AbstractView.aspx?PID=2022-15-9-67)

Author(s): Marina G D'Souza, D. Ramu, E. Haritha Reddy, Ravali Billa, N. Sai Kumar, Swathi B

DOI: 10.52711/0974-360X.2022.00707 (<https://www.doi.org/10.52711/0974-360X.2022.00707>)

Views: 0 (pdf), 136 (html)

Access:  Closed Access

Cite: Marina G D'Souza, D. Ramu, E. Haritha Reddy, Ravali Billa, N. Sai Kumar, Swathi B. Efficacy of Oral Glucosamine Sulphate and Sulfasalazine combination in the treatment of Osteoarthritis. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4208-1. doi: 10.52711/0974-360X.2022.00707 (<https://www.doi.org/10.52711/0974-360X.2022.00707>)

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(AbstractView.aspx?PID=2022-15-9-67)

In vitro assay of ACE Inhibitor, Antidiabetic and Antioxidants activities from Indonesia Traditional Medicine (Jamu) (AbstractView.aspx?PID=2022-15-9-68)

Author(s): Aprilita Rina Yanti Eff, Reza Ayu Pertiwi, Maharani Hestu Muktiwisesa, Annisah Nurziah Sujadi

DOI: 10.52711/0974-360X.2022.00708 (<https://www.doi.org/10.52711/0974-360X.2022.00708>)

Views: 0 (pdf), 215 (html)

Access:  Closed Access

Cite: Aprilita Rina Yanti Eff, Reza Ayu Pertiwi, Maharani Hestu Muktiwisesa, Annisah Nurziah Sujadi. In vitro assay of ACE Inhibitor, Antidiabetic and Antioxidants activities from Indonesia Traditional Medicine (Jamu). *Research Journal of Pharmacy and Technology*. 2022; 15(9):4212-7. doi: 10.52711/0974-360X.2022.00708 (<https://www.doi.org/10.52711/0974-360X.2022.00708>)

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(AbstractView.aspx?PID=2022-15-9-68)

A new Validated RP-HPLC Method for simultaneous quantification of Raloxifene and Curcumin (AbstractView.aspx?PID=2022-15-9-69)

Author(s): Priti Tagde, Kalpana Nagpal, Giriraj T Kulkarni

DOI: 10.52711/0974-360X.2022.00709 (<https://www.doi.org/10.52711/0974-360X.2022.00709>)

Views: 0 (pdf), 121 (html)

Access:  Closed Access

Cite: Priti Tagde, Kalpana Nagpal, Giriraj T Kulkarni. A new Validated RP-HPLC Method for simultaneous quantification of Raloxifene and Curcumin. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4218-5. doi: 10.52711/0974-360X.2022.00709 (<https://www.doi.org/10.52711/0974-360X.2022.00709>)

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Synthesis, Characterization and Preliminary Antimicrobial Evaluation of New Schiff bases and Aminothiadiazole Derivatives of N- Substituted Phthalimide (AbstractView.aspx?PID=2022-15-9-7)

Author(s): Mohammed Kamil Hadi, Nedaa A. Hameed A. Rahim, Ahmed T. Sulaiman, Rusul Mohammed Hasan Ali

DOI: 10.52711/0974-360X.2022.00647 (<https://www.doi.org/10.52711/0974-360X.2022.00647>)

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Cite: Mohammed Kamil Hadi, Nedaa A. Hameed A. Rahim, Ahmed T. Sulaiman, Rusul Mohammed Hasan Ali. Synthesis, Characterization and Preliminary Antimicrobial Evaluation of New Schiff bases and Aminothiadiazole Derivatives of N- Substituted Phthalimide. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3861-5. doi: 10.52711/0974-360X.2022.00647 (<https://www.doi.org/10.52711/0974-360X.2022.00647>)

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In vitro screening on Alpha amylase and Alpha glucosidase inhibitory activities of some novel Quinazolinone derivatives (AbstractView.aspx?PID=2022-15-9-70)

Author(s): Pratik G. Modh, Laxman J. Patel

DOI: 10.52711/0974-360X.2022.00710 (<https://www.doi.org/10.52711/0974-360X.2022.00710>)

Views: 0 (pdf), 216 (html)

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Cite: Pratik G. Modh, Laxman J. Patel. In vitro screening on Alpha amylase and Alpha glucosidase inhibitory activities of some novel Quinazolinone derivatives. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4226-9. doi: 10.52711/0974-360X.2022.00710 (<https://www.doi.org/10.52711/0974-360X.2022.00710>)

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Study of infection levels of Mycobacterium Tuberculosis in a city of Nasiriyah – Iraq (AbstractView.aspx?PID=2022-15-9-71)

Author(s): Hayder Yousif Falih, Ali Hasan Ali, Zahraa A. Fadhel

DOI: 10.52711/0974-360X.2022.00711 (<https://www.doi.org/10.52711/0974-360X.2022.00711>)

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Cite: Hayder Yousif Falih, Ali Hasan Ali, Zahraa A. Fadhel. Study of infection levels of Mycobacterium Tuberculosis in a city of Nasiriyah – Iraq. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4230-4. doi: 10.52711/0974-360X.2022.00711 (<https://www.doi.org/10.52711/0974-360X.2022.00711>)

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Molecular Docking of Active Compounds from Traditional Medicinal Plants as ACE-2 protein (1R4L) inhibitor in searching for COVID-19 drug (AbstractView.aspx?PID=2022-15-9-72)

Author(s): Emilia Tungary, Jeremi Ongko, Johan Sukweenadhi, Yulanda Antonius

DOI: 10.52711/0974-360X.2022.00712 (<https://www.doi.org/10.52711/0974-360X.2022.00712>)

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Cite: Emilia Tungary, Jeremi Ongko, Johan Sukweenadhi, Yulanda Antonius. Molecular Docking of Active Compounds from Traditional Medicinal Plants as ACE-2 protein (1R4L) inhibitor in searching for COVID-19 drug. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4235-0. doi: 10.52711/0974-360X.2022.00712 (<https://www.doi.org/10.52711/0974-360X.2022.00712>)

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Low-Dose Digoxin is Associated with Anticonvulsant Effect Enhancement of Classical Antiepileptic Drugs in the Electro-Induced Seizures in Mice (AbstractView.aspx?PID=2022-15-9-73)

Author(s): Vadim Tsyvunin, Sergiy Shtrygol, Mariia Mishchenko, Iryna Ryzhenko, Diana Shtrygol, Denis Oklei

DOI: 10.52711/0974-360X.2022.00713 (<https://www.doi.org/10.52711/0974-360X.2022.00713>)

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Cite: Vadim Tsyvunin, Sergiy Shtrygol, Mariia Mishchenko, Iryna Ryzhenko, Diana Shtrygol, Denis Oklei. Low-Dose Digoxin is Associated with Anticonvulsant Effect Enhancement of Classical Antiepileptic Drugs in the Electro-Induced Seizures in Mice. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4241-7. doi: 10.52711/0974-360X.2022.00713 (<https://www.doi.org/10.52711/0974-360X.2022.00713>)

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Development and validation of RP-HPLC method for estimation of camptothecin in mixed micelle formulation (AbstractView.aspx?PID=2022-15-9-74)

Author(s): Kiran S. Patil, Rutuja D. Chougale, Ashok A. Hajare

DOI: 10.52711/0974-360X.2022.00714 (<https://www.doi.org/10.52711/0974-360X.2022.00714>)

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Cite: Kiran S. Patil, Rutuja D. Chougale, Ashok A. Hajare. Development and validation of RP-HPLC method for estimation of camptothecin in mixed micelle formulation. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4248-2. doi: 10.52711/0974-360X.2022.00714 (<https://www.doi.org/10.52711/0974-360X.2022.00714>)

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Nanosponges: Advancement in Nanotherapeutics (AbstractView.aspx?PID=2022-15-9-75)

Author(s): Natasha Verma, Annamalai Rama, Adrija Jha, Bhautik Ladani, Induja Govindan, Sivakumar Kannan, Srinivas Hebbar, Anup Naha

DOI: 10.52711/0974-360X.2022.00715 (<https://www.doi.org/10.52711/0974-360X.2022.00715>)

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A Narrative Review Evaluation of Resistance Antibiotics used in Pneumonia (AbstractView.aspx?PID=2022-15-9-76)

Author(s): Tania Rizki Amalia, Eli Halimah, Riyadi Adrizain

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Cite: Tania Rizki Amalia, Eli Halimah, Riyadi Adrizain. A Narrative Review Evaluation of Resistance Antibiotics used in Pneumonia. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4261-9. doi: 10.52711/0974-360X.2022.00716 (<https://www.doi.org/10.52711/0974-360X.2022.00716>)

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The Impact of Nutrients on Coronavirus (Covid-19): A Review (AbstractView.aspx?PID=2022-15-9-77)

Author(s): Jayanti Dhara, Madhumita Saha, Dibya Das, Runu Chakraborty

DOI: 10.52711/0974-360X.2022.00717 (<https://www.doi.org/10.52711/0974-360X.2022.00717>)

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Cite: Jayanti Dhara, Madhumita Saha, Dibya Das, Runu Chakraborty. The Impact of Nutrients on Coronavirus (Covid-19): A Review. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4270-6. doi: 10.52711/0974-360X.2022.00717 (<https://www.doi.org/10.52711/0974-360X.2022.00717>)

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Author(s): Rakesh Pahwa, Chetna, Kamal Saroha, Bigul Yogeshver Bhardwaj, Manish Kumar, Inderbir Singh

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Review: Oral Beads as a Platform for Sustained Drug Delivery (AbstractView.aspx?PID=2022-15-9-79)

Author(s): Nora Zawar Yousif, Sura Zuhair Mahmood

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Cite: Nora Zawar Yousif, Sura Zuhair Mahmood. Review: Oral Beads as a Platform for Sustained Drug Delivery. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4283-8. doi: 10.52711/0974-360X.2022.00719 (<https://www.doi.org/10.52711/0974-360X.2022.00719>)

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Quantitative and Qualitative Evaluation of Leaf Essential Oil in Micropropagated Hedychium coronarium - An Endangered Medicinal Plant (AbstractView.aspx?PID=2022-15-9-8)

Author(s): Reena Parida, Sanghamitra Nayak

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Cite: Reena Parida, Sanghamitra Nayak. Quantitative and Qualitative Evaluation of Leaf Essential Oil in Micropropagated Hedychium coronarium - An Endangered Medicinal Plant. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3866-0. doi: 10.52711/0974-360X.2022.00648 (<https://www.doi.org/10.52711/0974-360X.2022.00648>)

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Pharmacogenetic Biomarkers and Personalized Medicine: Upcoming Concept in Pharmacotherapy (AbstractView.aspx?PID=2022-15-9-80)

Author(s): Navakanth Raju Ramayanam, Rajesh Nanda Amarnath, Thangavel Mahalingam Vijayakumar

DOI: 10.52711/0974-360X.2022.00720 (<https://www.doi.org/10.52711/0974-360X.2022.00720>)

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Cite: Navakanth Raju Ramayanam, Rajesh Nanda Amarnath, Thangavel Mahalingam Vijayakumar. *Pharmacogenetic Biomarkers and Personalized Medicine: Upcoming Concept in Pharmacotherapy*. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4289-2. doi: 10.52711/0974-360X.2022.00720 (<https://www.doi.org/10.52711/0974-360X.2022.00720>)

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A Review on Ethnopharmacological Applications, Pharmacological Activities, and Bioactive Compounds of Mimosa pudica (Linn.) (AbstractView.aspx?PID=2022-15-9-81)

Author(s): Arpan K. Tripathi, Rupesh Soni, Shekhar Verma

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Cite: Arpan K. Tripathi, Rupesh Soni, Shekhar Verma. *A Review on Ethnopharmacological Applications, Pharmacological Activities, and Bioactive Compounds of Mimosa pudica (Linn.)*. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4293-9. doi: 10.52711/0974-360X.2022.00721 (<https://www.doi.org/10.52711/0974-360X.2022.00721>)

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Impeding efflux-mediated resistance in Staphylococcus aureus (AbstractView.aspx?PID=2022-15-9-82)

Author(s): Safaa A. M. Abdel-Karim, Amira M. A. El-Ganiny, Mona A. El-Sayed, Hisham A. Abbas

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Repurposing of Drugs: Updates and New Perspectives (AbstractView.aspx?PID=2022-15-9-83)

Author(s): Pratik R. Aher, Rushikesh V. Aher, Tejas S. Ahire, Monali B. Patil, Hitesh V. Shahare, Shweta S. Gedam

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Compendious Review on Adipokines of Corpulence (AbstractView.aspx?PID=2022-15-9-84)

Author(s): Feryal Hashim

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Cite: Feryal Hashim. Compendious Review on Adipokines of Corpulence. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4315-8. doi: 10.52711/0974-360X.2022.00724 (<https://www.doi.org/10.52711/0974-360X.2022.00724>)

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A Promising Oral Drug Delivery System of Microsponges: A Brief Review (AbstractView.aspx?PID=2022-15-9-85)

Author(s): Pashikanti Shailaja, Kunche Satya Ashok

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Cite: Pashikanti Shailaja, Kunche Satya Ashok. A Promising Oral Drug Delivery System of Microsponges: A Brief Review. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4319-4. doi: 10.52711/0974-360X.2022.00725 (<https://www.doi.org/10.52711/0974-360X.2022.00725>)

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Selection of Stationary Phase and Mobile Phase in High Performance Liquid Chromatography (AbstractView.aspx?PID=2022-15-9-86)

Author(s): Urvi Das Sharma, Lalit Kumar, Ruchi Verma

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Cite: Urvi Das Sharma, Lalit Kumar, Ruchi Verma. Selection of Stationary Phase and Mobile Phase in High Performance Liquid Chromatography. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4325-2. doi: 10.52711/0974-360X.2022.00726 (<https://www.doi.org/10.52711/0974-360X.2022.00726>)

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The Role of Integrative Clinical Hypnotherapy Interventions and their Place in Modern Medical and Psychological Treatment: A Review Study (AbstractView.aspx?PID=2022-15-9-87)

Author(s): Sheila Menon, Vidya Bhagat

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Cite: Sheila Menon, Vidya Bhagat. The Role of Integrative Clinical Hypnotherapy Interventions and their Place in Modern Medical and Psychological Treatment: A Review Study. *Research Journal of Pharmacy and Technology*. 2022; 15(9):4333-0. doi: 10.52711/0974-360X.2022.00727 (<https://www.doi.org/10.52711/0974-360X.2022.00727>)

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Pharmacognostical and Preliminary Phytochemical Evaluation of *Atalantia monophylla* DC. root and stem (AbstractView.aspx?PID=2022-15-9-9)

Author(s): Das Ashokkumar Nathulal, Rabinarayan Acharya, Preeti Pandya, Harisha CR, Shukla VJ

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Cite: Das Ashokkumar Nathulal, Rabinarayan Acharya, Preeti Pandya, Harisha CR, Shukla VJ. Pharmacognostical and Preliminary Phytochemical Evaluation of *Atalantia monophylla* DC. root and stem. *Research Journal of Pharmacy and Technology*. 2022; 15(9):3871-8. doi: 10.52711/0974-360X.2022.00649 (<https://www.doi.org/10.52711/0974-360X.2022.00649>)

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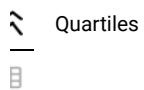
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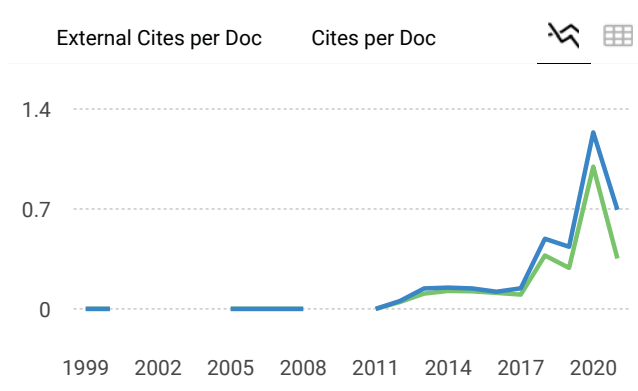
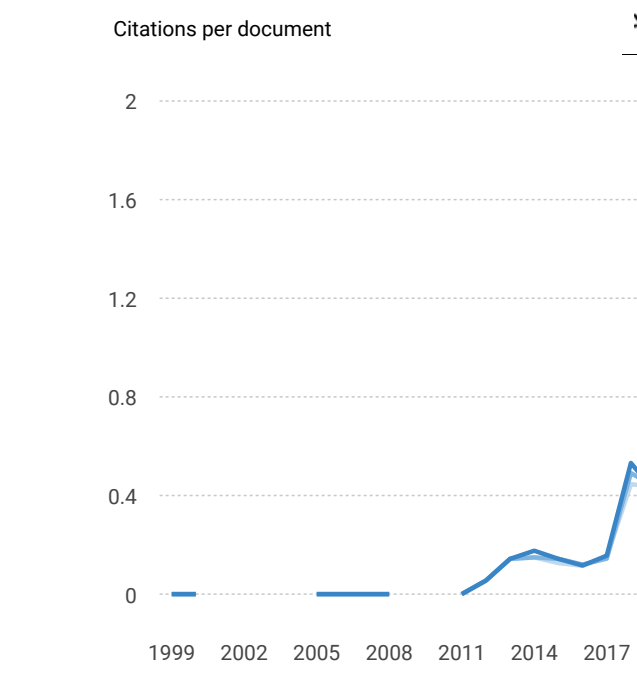
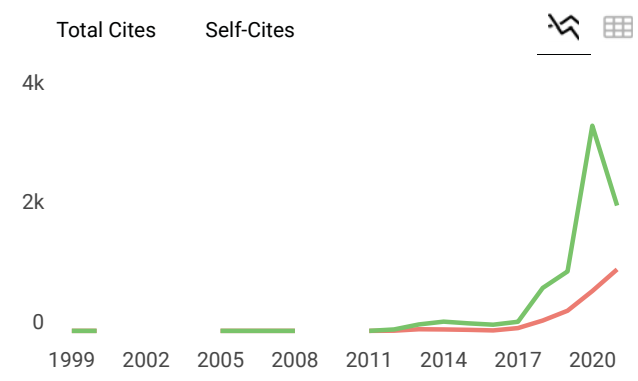
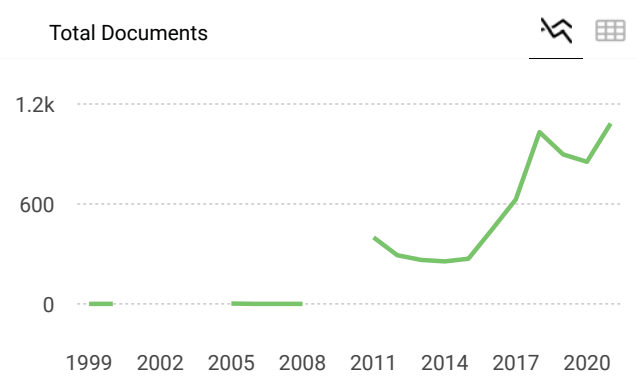
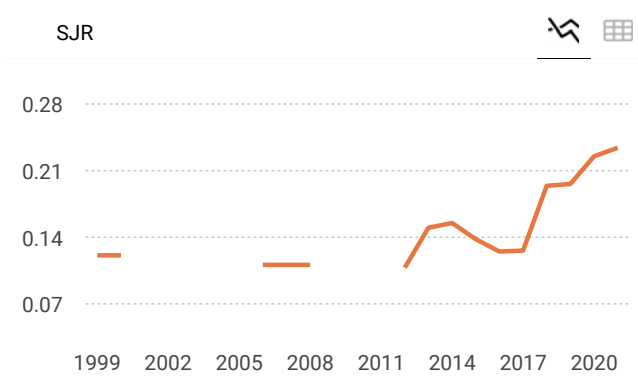
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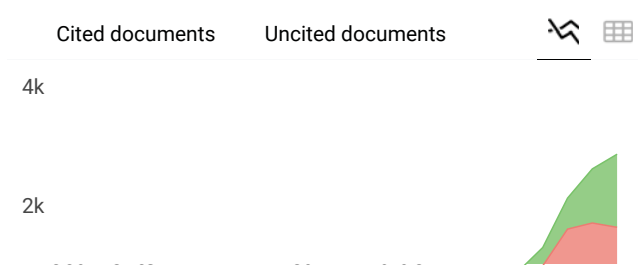
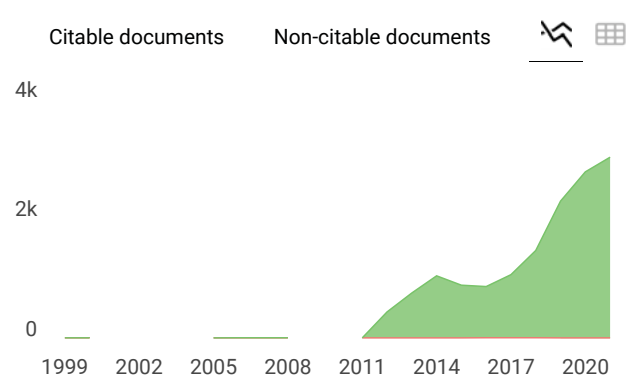
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