

CONTENT

- **The effect of steviol on differentiated rat PC-12 cells induced by MPP⁺**
Antoine Al-Achi, Apoorva Daram, Sirisha Ganapuram, Shreyas Shridhar Deo, Roobina Didarians..... 4859
- **Role of Quercetin as an effective Bioenhancer in Curcumin Absorption, *In vitro* Study**
Dhanlaxmi Piniseti, Patel Aditi Balvanbhai, Jagdish Kakadiya..... 4867
- **Cytokine Storm, Immunomodulators and Mucormycosis in COVID-19: Bench To Bed Side**
Rony T Kondody, Sudhir Rama Varma, Aishwarya Patil, Manjusha Nambiar, Arathi S Nair, Rhea Mathew, Abhishek PT..... 4871
- **The Vedic medicine ingredient from household kitchens is the prospecting element for the future medicinal innovations in pharmaceuticals: Statistical analysis**
Gurvishal Sinha..... 4876
- **Can Spices Cure Flu?: A Multiple targets based Bioinformatics analysis**
Pragya Chaturvedi, Vijay Laxmi Saxena, Vishakha Raina, Pooran Singh Solanki, Abhishek Chaturvedi..... 4881
- **Molecular interaction of *Centella asiatica* bioactive compounds and Donepezil on Alzheimer’s protein through in silico studies**
Hagar Ali Marzouk, Syahputra Wibowo, Husnul Khotimah, Sutiman Bambang Sumitro..... 4887
- **Attenuation of Experimentally Induced Anxiety by Panchagavya Ghrita in Mice**
Gururaja MP, Nidhi P Shetty, Himanshu Joshi..... 4897
- **Bridging between disorder, prevalence, clinical manifestation and therapeutic management of muscular dystrophy**
Nigama Chandra Sattenapalli, Ranjit Prasad Swain, Siva Naga Koteswara Rao Gudhanti..... 4901
- **Exploration of antifungal potential of extracts of leaves of *Ocimum gratissimum* against *Microsporum gypseum***
Puneet Sudan, Monika Sharma..... 4908
- **In Silico Prediction and In Vitro Cytotoxic Activity of Arbuscular Mycorrhizal Fungi Induced *Zingiber officinale* Var. *Rubrum***
Netty Suharti, Dachriyanus, Henny Lucida, Fatma Sri Wahyuni, Dira Hefni, Purnawan Pontana Putra..... 4913
- **Simultaneous quantification of pharmacological markers quercetin, berberine HCl and curcumin using High-performance thin-layer chromatography (HPTLC) from polyherbal formulation**
Kinjal Patel, Priya Shah, Maitreyi Zaveri..... 4919
- **Formulation and *In Vivo* Evaluation of Pharmacokinetics Parameters of Extended Release Matrix Tablet Containing Drug Benidipine Hydrochloride by Using PK Solver Software**
Amaresh Prusty, Bijon K Gupta, Amiyakanta Mishra..... 4924
- **Phytochemical Content and Antioxidant Property of Polyherbal Formulation, Raktavardhak Kadha**
Payal A. Sheth, Anil T. Pawar, Ganesh B. Choudhari, Chandrakant S. More..... 4931
- **Antibiotic resistance of urinary tract pathogens in Syrian children**
Ayat Abbood, Zeina Malek, Nasser Thallaj..... 4935
- **Combined Interferon-Antiviral therapy effectiveness against Hepatitis B viral infection in Babylon Province**
Ali Husain Shilib Al-Shimmery, Ahmed Abdul-Abbas Bayram, Raheem Tuama Obayes Al Mammori, Noor S.K. Al-Khafaji, Hussein O.M. Al-Dahmoshi..... 4940
- **Development and Validation of stability indicating RP-HPLC method for the estimation of Ertugliflozin by forced degradation studies**
M. R. Ghante, R. B. Tangade, S. D. Sawant, P. D. Kulkarni, V. K. Bhusari..... 4945
- **Case study on the effect of T-AYU-HM Premium with modern medicine in severe Covid-19 Patient**
Atul M. Desai, Hemshree A. Desai, Rutvij A. Desai, Chirag Desai..... 4950

- **Cytotoxic effects of Chloroform-methanol extract, protein extract and various fractions of ethanolic extract of *Curcuma amada* rhizome on HCT116 colon cancer cell line**
Vaibhav. S. Patil, Varashree B S, K. Sreedhara Ranganath Pai, Gangadhar Hari, Keerthi Priya..... 4955
- **Influence of Essential Oils on the Formation of *Streptococcus mutans* Biofilms**
G.A. Atazhanova, K.Zh. Badekova, S.A. Ivasenko, T. Kacergius, Ya.K. Levaya, G.K. Kurmantaeva, M.Yu. Ishmuratova, M.K.Smagulov..... 4959
- **Evaluation of Seasonal Variation and Procurement Time for *Eclipta prostrata* (L.) L.C.**
Cheemalapati Venkata Narasimhaji, A K Mangal, Rekha Prabu, Ilavrasan R, Narayanam Srikanth..... 4967
- **Effect of Glutaraldehyde Concentration Variation on Diclofenac Sodium Scaffolds as Cross-Linking Agent**
Aniek Setiya Budiatin, Nily Su'aida, Aziszia Insanya Lamakluang, Silda Sabila Rahma, Bambang Subakti Zulkarnain, Dewi Isadiartuti..... 4974
- **Development and Evaluation of Polyherbal Formulation for the treatment of Dengue Fever**
Pravin S, Nanthagopal P, Ayyappan T..... 4981
- **Chemically synthesized Schiff's base Conjugated Piperonal as novel Antioxidants and Scavengers of Free Radicals**
Ashwin Prakash Karurkar, Anuradha Venkatraman, Syed Ali Mohammed Yacoob, Asrar Ahmed, Mohamed Sihabudeen..... 4987
- **Effect of Dapagliflozin on Serum Uric Acid in Type 2 Diabetes Mellitus patients**
Lilian Khalil, Arige Boubou, Nisrin Kaddar..... 4994
- **Development and Validation of RP-HPLC Method for Estimation of Lurasidone and its impurities Lurasidone 1 and Lurasidone 8**
Maulikkumar D. Vaja, Ruchita R. Patel, Bhoomi D. Patel, Ankit B. Chaudhary..... 4999
- **Chlorogenic Acid Fractionation in Robusta Green Bean Extract as a Combination Agent of Dental Pulp Stem Cells in Periodontal Tissue Engineering**
Desi Sandra Sari, Neira Sakinah, Nuri, Enny Suswati, Retno Widyowati, Ernie Maduratna..... 5005
- **Immunohistochemical Study of the Over-Expressed Protein of P57-Gene Related with HPV31/33 Infections in a Group of Thyroid Carcinomatous Tissues**
Nihaya Kadhim Salim, Saad Hasan Mohammed Ali, Israa Mahdi Al-Sudani..... 5011
- **In Vivo Evaluation of Genotoxic Effects of Sivanar Amirtham Formulation on Rats Using Micro Nucleus Assay**
Moushumi Baidya, J. Anbu, Kuntal Manna, Himangshu Sekhar Maji, Sudip Kumar Mandal..... 5017
- **Induction of Apoptosis by Methanolic Extract of *Rhizophora mucronata* Lam on MCF-7 Cell Line**
X. Asbin Mary, M. Syed Ali, V. Anuradha, N. Yogananth, J. Vardhana, P. Vinoth Kumar..... 5021
- **Ayurvedic Management of Vatarakata (Gout) - A Case Report**
Sima Balaprasad Jaju, Digambar G. Dipankar, Almas M. Shaikh, Anjali Rajesh Pote, Anupama M. Bathe..... 5026
- **Formulation, evaluation and optimization of orally disintegrating films of Azithromycin using DOE approach for the pediatrics with acute otitis media**
Shankhadip Nandi, Gargi Das, Khandekar Hussan Reza..... 5031
- **Antiproliferative and Antioxidant Activities of Chloroform Soluble and its Fractions Obtained from Methanolic Extract of Cocoa pod Husk**
Sri Windananti, Mustanir Yahya, Binawati Ginting, Nurdin Saidi..... 5038
- **Residual Solvents by GC-MS Procedure for Etoricoxib: Method Development and Validation Report**
Komali Sivaprasad, Vardhani Devi Duggirala Parvatha Venkata, Kapavarapu Maruthi Venkata Narayanarao, Pulipaka Shyamala..... 5043
- **Isolation of bio-molecule Baicalein (5, 6, 7-Trihydroxy flavone) from root of *Oroxylum indicum* L. and its prospective interaction with COVID-19 Viral S-Protein Receptor Binding Domain**
Mamta Gokhale, Rumana Faraz, Isha Deshpande, Ashish Garg..... 5050
- **Effect of chronic unpredictable stress on behavioral analysis and cognitive functions in association with hippocampus glial cells**
Megha Gokul, Nayanatara Arun Kumar, Rekha D. Kini, Nirupama M., Anupama N., Bhagyalakshmi K., Vandana Blossom, Santosh Rai P.V. 5057

- **The pharmacognostic profiling of traditionally used medicinal plants of Northeast India and evaluation of their *in-vitro* anti-oxidant and anti-inflammatory potential**
SM Abdul Aziz Barbhuiya, Ajay Kakati, Muslek Uddin Mazumder, Md Rejwan Ahmed Choudhury, Mosrur Ahmed Laskar..... 5062
- **Mouth Dissolving Tablets: An Insight into Challenges and Future Prospects of Technologies in Pharmaceutical Industries**
Jitendra Gupta..... 5068
- **Estimation of shelf-life of *Balachaturbhadraka* syrup containing different sweetening agents**
Chinky Goyal, Pankaj Bhatt, Shivani Rawat, Vipin Kumar Sharma, Meena Rani Ahuja..... 5078
- **Effect of Ayurvedic oral medication and *Panchakarma* therapy in *Gridhrasi* (Sciatica) - A Case Report**
Anjali Rajesh Pote, Digambar G. Dipankar, Sima Balaprasad Jaju, Roshani Shekhar Patil..... 5084
- **Solubility Enhancement of Paclitaxel by Using Biomaterial**
Sachin D. Rede, Rupal K. Jani..... 5089
- **Effect of intermittent fasting and complete fasting on biochemical and histological parameters in high fat high sugar induced rat model of obesity**
Sourav V, Anupama N, Nayanatara Arun Kumar, Chitra Pai Kulyadi, Sowndarya K..... 5094
- **Molecular Detection of some Staphylococcal species with the newly developed *folp* gene sequences**
Mohamed Mohamed Adel El-Sokkary..... 5099
- ***In Vitro* Antioxidant and Sunscreen Activities of *Gyrinops versteegi* Leaf Extract from Different Location in Indonesia and Phytosome Combinations**
Rita Kartika Sari, Maeda Wahyuningrum, Salman Arib Rozan, M. Ilham Aulia, Mohamad Rafi, Ietje Wientarsih.. 5106
- **Antioxidant Potential of different extracts of *Xanthium strumarium* leaves**
Deepak Kumar, Ashwani Sanghi, Shefali Arora, Shobhit Vidyarthi..... 5112
- **Anti-inflammatory activity of methanol and ethyl acetate fractions of *Sesbania grandiflora* roots in rats**
Vinay NS, Pooja T, Nandeesh R, Syed Mansoor Ahmed, Veeresh P Veerapur, Babitha S..... 5115
- ***In vitro* Antioxidant Potential and Anti-bacterial Activities of Rajanyadi Churna Extracts Against *Escherichia coli***
Rupali Deshpande, Chandrashekar K.S., Vasudev R Pai, Venkatesh Kamath, Aswatha Ram H.N. 5120
- **Clinical assessment of a synthetic biomaterial containing hydroxyapatite and beta tricalcium phosphate in socket preservation**
Ali Forouzanfar, Mehrdad Radvar, Ebrahim Shayesteh, Hamideh Sadat Mohammadipour..... 5126
- **Fenofibrate and Statins in Patients with COVID-19**
Yazan Batineh, Qutaiba Ahmed Al Khames Aga, Kawthar Faris Nassir, Tharwat I Sulaiman, Ali Abbas Al-Gharawi, Jawad I Rasheed, Zaid Al Madfai, Mutaz A. Sheikh Salem, Luma Ahmed Al Khames Aga, Manhal Yasseen Rijab Agha, Eamon Abdullah..... 5132
- **Knowledge assessment of dental implant practitioners at Ajman and Sharjah dental schools**
Haya Nadhim DDS, Frah A. Ezaez DDS, Amaweya Abdulrahman Al-Sammarraie, Ayyam Khalid Abdulkareem.. 5139
- **Cytotoxicity Evaluation of Chalcone-Coumarin Conjugates Against A549 Cell Line**
Raj Keshwar Prasad, Kavita R. Loksh..... 5144
- **Validation of quantitative determination methods of active substances in Carbatryl tablets**
Kucherenko Liudmyla, Nimenko Ganna, Khromylova Olga, Borsuk Serhii..... 5148
- **Formulation and Evaluation of Mouth Dissolving Films of Amlodipine Besylate by using Natural and Synthetic Polymers**
Umar Faruk Sha A., Pravin S. 5154
- **Gas Chromatography-Head Space-Flame Ionization Sensor based assessment of four residuary solvents in rivaroxaban bulk medication**
Rajesh Varma Bhupatiraju, Battula Sreenivasa Rao..... 5158
- **Identification of metabolite compounds from ethanolic extract of the Red Gedi Leaves (*Abelmoschus manihot* L. Medik) by LC-ESI-MS**
Juliet Tangka, Elisabeth N. Barung, Diana Lyravati, Djoko W. Soeatmadji, Nurdiana..... 5164
- **Exploring *Schleichera oleasa* crude bark extract for its anti-helminthic potential**
Jasmine Chaudhary, Akash Jain, Anns Sabu, Priyanka Jha, Prerna Sarup, Vishal Sharma, Diksha Sharma..... 5168

- **Perception and Attitude of Medical and Dental Students Towards Covid-19 and its Vaccination in A Medical and Dental College of India**
Zuryat Ashraf, Mehwish Majeed, Tauseef Nazir, Sameena Farhat, Shaheena Rasool, Mohd. Adil..... 5172
- **Botanical Identification of Ayush - Ayurveda and Unani Drugs and its Relevance in Quality Control**
Mohd Kashif Husain..... 5177
- **Antioxidant Activity and Compounds Identification of *Sauropus androgynus* (L.) Merr. and *Moringa oleifera* Lam Leaves Combination Fermented with Kombucha Consortium**
Santi Endrawati, Nina Artanti, Muhammad Hanafi..... 5184
- **To Compare the Effectiveness of Balance and Proprioception with Conventional Exercise in Non Specific Neck Pain**
Rajalaxmi.V, Sushmitha Anandhan, K.Kirupa, K. Kamatchi, Radhakrishnan Unnikrishnan, Shady Abdullah Alshewatier..... 5192
- **Standardization of Dengen Bark Extract (*Dillenia serrata*) for Emulgel Product Development**
Santi Sinala, Ismail Ibrahim, Sisilia Teresia Rosmala Dewi, Sesilia Rante Pakadang, Jumain, Arisanty..... 5196
- **ADR profile among healthcare workers on Hydroxychloroquine prophylaxis in a tertiary care teaching hospital in India**
Neha Rani, Tirthankar Deb, Ankita Beniwal, Astha Singh..... 5202
- **Standardization of Proprietary Ayurvedic Laxative Tablet Formulation – Vasulax**
Madhavi Patel, Shivangi Chauhan, Vishal Patel, Hardik Soni, Vikram Trivedi..... 5206
- **Formulation and characterization of *Sauropus androgynous* (L) Merr leaf extract Gel in Combination with CMC-Na and Carbopol 940 Using DPPH Method**
Ni NyomanYuliani, Jefrin Sambara, Sandeep Poddar, Urmisha Das..... 5211
- **Synthesis and genotoxic evaluation of a 4-(Oxiran-2-ylmethyl)-1,4-benzothiazin-3-one**
Hassan Jaddi, Ahmed Moussaif, Laila. Benbacer, Mohammed Attaleb, Mohamed Ellouz, Nada Kheira Sebbar, Abdelkarim Filali Maltouf, El Mokhtar Essassi, Mohammed El Mzibri..... 5217
- **Development and qualitative evaluation of periodontal gel containing an antibacterial agent for periodontal disease**
Gaurav Tiwari, Garima Singh, Ravi Shekhar, Ruchi Tiwari..... 5225
- **Development and validation of UV spectroscopic method for estimation of sacubitril and valsartan combination (LCZ696) in bulk and pharmaceutical tablet dosage forms**
Rajeswari Aleti, K. V. Ramana Murthy..... 5232
- **Sero-characterization of intestinal and extra-intestinal *Escherichia coli* (*E. coli*) isolates from different geographical locations in India**
Gulshan Kumar, Yashwant Kumar, Gaurav Kumar, Ajay Kumar Tahlan..... 5239
- **A Comparative Clinical Study to Evaluate the Efficacy of *Gomutra Arka Bhavita Shilajatu* and *Agnimantha Bhavita Shilajatu* in Sthaulya W.S.R. To Obesity**
Roshani Shekhar Patil, Jibi Varghese, Jaypalsing Prakashsing Pawar, Rashmi Gangadhar Kurbet, Anjali Rajesh Pote..... 5245
- **Potential matrix metalloproteinase-9 inhibitor of auronone compound isolated from *Sterculia quadrifida* leaves: *In-vitro* and *in-silico* studies**
Rollando Rollando, Warsito Warsito, Masruri Masruri, Nashi Widodo..... 5250
- **Development and Validation of HPTLC Method for the Estimation of Escitalopram oxalate and Flupentixol Dihydrochloride in Pharmaceutical Formulation**
S. Malathi, H. Ananthi..... 5255
- **Assessment of behavioral and anatomical changes in anterior Cingulate gyrus and Substantia nigra in stressed adult albino mice**
Hemalatha Bangera, Vasanthalakshmi K R, Manjula SD..... 5260
- **Exploration of phytochemical and in-vitro antioxidant and antidiabetic properties of *Aerva sanguinolenta* (L.) Blume**
Nilanjan Sarkar, Sara Farheen, Mainak Chakraborty, Swarupananda Mukherjee, Pallab Kanti Haldar..... 5267
- **Clinical Pharmacist role and their Importance in the Systematic Analysis of Diabetes Management Studies**
Sini T. Inasu, M.V. Kumudavalli, B.S. Venkateswarlu..... 5273

- **Antimicrobial Studies on Aqueous and Ethanolic Extract of Root, Stem and Leaves of *Phyllanthus niruri* (Bhumi Amla): Hepatoprotective Medicinal Plant**
Reni Nigam, Praveen Garg..... 5278
- **Development and Evaluation of Essential Oil-based Lozenges using Menthol and Eucalyptus and *in vitro* Evaluation of their Antimicrobial activity in *S.aureus* and *E.coli***
Manas Ranjan Sahoo, Marakanam Srinivasan Umashankar, Ramesh Raghava Varier..... 5283
- **Impact of Antioxidant rich fractions isolated from moss *Fissidens grandiflora* on alcohol-induced oxidative stress**
Madhavi Meka, Nalini Panatula, Siva Kumar Nemala, Srilakshmi Nallapaty, Sree Teja Koneru, Alekhya Ketha 5289
- **Preparation, Characterization and Pharmacological evaluation of *Bauhinia variegata* Lauha Bhasma**
Rupali Ajesh Gulalkari..... 5295
- **Development and Validation for the Simultaneous Estimation of Rilpivirine and Dolutegravir in Bulk and Pharmaceutical Dosage Forms by RP-HPLC Method**
Sivagami B, Sharmil Kumar. L.M, Chandrasekar. R, Niranjan Babu. M..... 5302
- **Evaluation of adaptogenic activity of Neurotip capsules by swimming endurance and chronic stress model**
Ravindra Bhimraj Laware, Santosh Bhausheeb Dighe, Braj Nandan Kishor..... 5307
- **Green synthesis of Zirconia nanoparticles based on ginger root extract: Optimization of reaction conditions, application in dentistry**
Thyagarajan R., Narendrakumar G., Rameshkumar V., Varshiney M. 5314
- **Clinical utility of benzodiazepine in the management of alcohol withdrawal syndrome in a tertiary care teaching hospital**
Kadeeja Vadakkan. Rajesh KS, Smitha Tarachandra, Bharath Raj KC, Himanshu Joshi..... 5321
- **Neurotrophic Factors as Antiapoptotic Agents – A Review**
Abhishek Bharti, Payal Mittal, Kundan Singh Bora..... 5327
- **A Synthesis and Review of Ethnomedicinal Uses, Phytochemistry and Biological Activities of *Paropsia brazzeana* Baill. (Passifloraceae)**
Alfred Maroyi..... 5331
- **Method of Starch Acetylation and Use of Acetylated Starch as Polymer in Pharmaceutical Formulations**
Vidyadevi T. Bhojar, Veena S. Belgamwar, Sagar S. Trivedi..... 5337
- **Anti-Post-Traumatic stress Potential of Strawberry (*Fragaria*) and *Carissa carandas* Leaves: A Review**
Jaymala Arun Kumawat, Birendra Shrivastava, Vaishali M. Mute..... 5344
- **Current concepts of Drug Therapy in Dentistry: A Review**
Ravi Gupta, Soumyadev Satpathy, Hemanth Kumar, Vignesh Kamath, Lakshmi Pandey, Rashi Dubey..... 5349
- **Potential of Curcumin-Quercetin Loaded Nanostructured Lipid Carriers as Oral Squamous Cell Carcinoma Adjuvant Therapy by Downregulating AKT/PI3K Signaling Pathway**
Alexander Patera Nugraha*, Diona Olivia Yudianto, Amelia Aisyiah Anwar, Alqomariyah Eka Purnamasari, Rifqah Ananda Mappananrang, Nastiti Faradilla, Ramadhani, Muhammad Luthfi, Tengku Natasha Eleena Binti Tengku Ahmad Noor, Albertus Putera Nugraha, Andreas Pratama Nugraha,..... 5353
- **Phytoremediation Techniques**
Preeti Sinha..... 5359
- **Traditional uses and Phytochemistry of *Cinnamomum* Species – A Mini Review**
Kavita Munjal, Vinod Gauttam, Sumeet Gupta, Apeksha Gupta, Lubna Abidin, Vikas Jhawar, Aayeena Altaf..... 5363
- **Preventive Cardiology: Ayurveda View**
Abhijit Dinkarro Shekhar, Gunvant H Yeola, Prasad N Kulkarni, Prashant Khade, Pranesh Gaikwad..... 5368
- **A review on antitumor action of amygdalin on various types of cancers**
Vadivelan Ramachandran, Kirankumar Rapindra Hosalli, Inbakumar Vijayakumar, Lalithkumar Mani, Ruchi Tiwari, Gaurav Tiwari..... 5373
- **Instruction to author**..... 5381