

CONTENT

● Development and Characterization of Transdermal patches of Tramadol Hydrochloride: An Approach to Pain Management	
<i>Pooja Dhama, Sachin Kumar, Manoj Kumar Sagar</i>	1
● Evaluation of Drug Combinations' Effectiveness in Hyperkalemia Management of Chronic Kidney Disease Patients	
<i>Ema Pristi Yunita, Ni Luh Putu Gita Asriyanti, Atma Gunawan</i>	6
● Design, Development and Characterization of Flash release wafers containing Levocetirizine hydrochloride and Montelukast sodium	
<i>S. Subramanian, P. Mani</i>	11
● Formulation Development and In vitro Evaluation of Memantine Hydrochloride Fast Dissolving Oral Films employing different grades of Hydroxy Propyl Methyl Cellulose	
<i>Kamma Keerthi Sai</i>	17
● In-vitro Antifungal Evaluation of Some Cu and Ni Complexes	
<i>Deepankar Sharma, Purnima Nag</i>	24
● Preformulation studies of Glipizide: First step towards developing stable Osmotic Drug Delivery System	
<i>Manish Wani, Pradeep Rodge, Akshay Baheti, Satish Polshettiwar, Tanaji Nandgude, Firoj Tamboli</i>	29
● Development and In Vitro Evaluation of a Large-Intestinal Drug Delivery System	
<i>Mohammad F. Bayan, Mutaz S. Salem, Rana F. Bayan</i>	35
● Hydroquinone Solubility in Pure and Binary Solvent Mixture at Various Temperatures with FTIR	
<i>Chandrakant S. Aher</i>	40
● In-vitro Cytotoxicity assay of Betel quid extract against HeLa cells	
<i>B. Usharani, R. Monisha</i>	47
● Formulation and Evaluation of Patchouli Oil Microemulsion and Microemulgel for Inhibit the Bacterial Growth	
<i>Febriyenti, Netty Suharti, Rizki Febrika Putri</i>	51
● Detection of SNPs in Merremia and its related taxa for species identification using DNA barcode markers	
<i>Kamalakanta Satapathy, Omprakash Mohanta, Biswajit Jena, Bhagyashree Biswal, Alok Kumar Giri, Laxmikanta Acharya</i>	56
● Eco-Friendly Biogenic Synthesis of Metallic MgO Nanoparticles as Potent Antibacterial and Antibiofilm	
<i>Sanaa K. Gomaa, Rania A. Zaki, Reham R. El-Behery, Heba A. El-Refai</i>	63
● Ethyl Acetate and Butanol Fraction Effect of Citrus japonica Thunb. On Triglyceride Levels In Serum White Male Rats (Rattus norvegicus)	
<i>Meiriza Djohari, Enda Mora, Emrizal, Cici Angraini, Fakhriyah Aulia</i>	71
● A Study on Anti-inflammatory Activity of Stem Bark Extract of Holoptelea integrifolia	
<i>Harendra Pratap, Manish Kumar Shakya, Talever Singh, Mohit Agrawal, Nishant Singh Katiyar</i>	77
● Development and Validation of Stability Indicating RP-HPLC Method for Quantitative Estimation of Ornidazole and its Impurities in Ornidazole Injection	
<i>N. Prasad Babu, D. Ramachandran</i>	82

- **Development and Validation of an Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry method with Liquid-Liquid Extraction for The Quantification of Sitagliptin in Human plasma using Nebivolol as Internal Standard**
Henny Rochaeny, Candra Irawan, Ismail Dwi Saputro, Lintannisa Rahmatia, Nilna Izzatul Mawaddah..... 89
- **Development and evaluation of nano herbosomes of *Eleocarpus ganitrus* for antioxidant activity**
Gayatri Joshi, Abhishek Tiwari, Prashant Upadhyay, Varsha Tiwari..... 97
- **Preparation and Evaluation of Eprosartan Mesylate loaded PLGA Nanostructures**
Easha Biswas, Kalyan Kumar Banerjee, Sanat Karmakar, Sanmoy Karmakar, Tapan Kumar Pal..... 103
- **Potential *In vitro* and *In vivo* Bioactivities of *Schleichera oleosa* (Lour.) Oken: A Traditionally Important Medicinal Plant of Bangladesh**
Noushin Anjum, Md. Jamal Hossain, Fahima Aktar, Mohammad Rashedul Haque, Mohammad Abdur Rashid, Md. Ruhul Kuddus..... 113
- **Features of the effect of serotonin on the inotropic function of the right ventricular myocardium in the early postnatal period in infant rats with altered serotonin levels during their embryogenesis**
Akhmetova M., Nigmatullina R., Mindubayeva F., Tykezhanova G., Niyazova Y., Lepesbayeva G..... 122
- **Investigating the Anti-Viral and Anti-Bacterial activities of Jordanian Medicinal plants: A narrative review**
Hana R. Bajes, Sawsan A. Oran, Emad AS Al-Dujaili..... 127
- **Formulation and Evaluation of Chewable Tablets of Anti-Asthmatic Drug**
Suruse P. B., Band K. S., Ingole A. R., Baheti J. R. 137
- **Development of Antiacne Nanogel containing Cinnamon Bark Oil (*Cinnamomum burmannii* Nees ex Bl.) and Olive Oil (*Olea europaea* L.)**
Sani Ega Priani, Emalia Nurhasanah, Anan Suparman..... 143
- **A study on extraction and characterization of natural red pigment from a soil isolate *Serratia marcescens* CN14**
Namratha K, Cinchana K, K V Bhaskara Rao..... 148
- **Chemical Composition and Antiproliferative and Antioxidant Activities of Essential Oil from *Juniperus phoenicea* L. Cupressaceae**
Hana R. Bajes, Sawsan A. Oran, Yasser K. Bustanji..... 153
- **Effect of Esomeprazole on serum creatinine and urea in patients with Peptic Ulcer**
Marwan M. Merkhar, Eman Abdullah, Zeina Althanoon..... 160
- **Development and validation of a stability indicating UPLC method for determination of Darolutamide in its tablet formulation**
Poojari Venkatesh, Umasankar Kulandaivelu, GSN Koteswara Rao, Guntupalli Chakravarthi, Rajasekhar Reddy Alavala, Bandlamuri Rajesh..... 165
- **Evaluation of Dextromethorphan HBr and Glyceryl Guaiacolate mixture in syrup preparation by Derivative Spectrophotometry Methods**
Muchlisyam, Yade Metri Permata, Hafid Syahputra..... 171
- **Identification of bioactive ingredients in *Chenopodium murale* L. *Chenopodiaceae* by HPLC and GC/MS**
Rasha M.M. Mohasib, A.Nagib, A.Abdel Samad, Zeinab A. Salama, Alaa A.Gaafar, Hanan A.A., Taie, Sameh R. Hussein..... 177
- **Screening of Novel Hybrid Combinations of Synthetic Drugs with Plant Extracts for its *In vitro* Antioxidant Activity**
Chetan Savant, Venkatrao Kulkarni, Prasanna Habbu, Preeti Kulkarni, Muhammed Majeed, Mahadeva Nayak... 188
- **Effectiveness of Inspiratory muscle training using Ultrabreathe on Pulmonary function in Duchenne**

Muscular Dystrophy	
<i>Malarvizhi D, Hariharan S</i>	193
● The potential effect of topical aminophylline on acute glaucoma model	
<i>Mohammed J Manna, Murtadha S Jabur, Haider Raheem Mohammad, Haidar A Abdulmir</i>	197
● Characterization of 4T Engine Oil Degrading Indigenous Bacteria Isolated From Semi Arid Zone of Rajasthan (Churu)	
<i>Shivendra Sharma, Pooja Pandey, Hardik Pathak, Saurabh Dave</i>	201
● A Stability-Indicating UPLC Method for Simultaneous Quantification of Epalrestat and Pregabalin in Bulk and Marketed Formulations	
<i>Parthasarathi Thoddi, Girendra Kumar Gautam CH, Narasimha Raju BH</i>	206
● Method Development and Validation of Simultaneous Estimation of Atenolol, Amlodipine besylate and Aspirin in bulk drug and formulation by HPTLC	
<i>Vidhya K. Bhusari, Sunil R. Dhaneshwar</i>	213
● A Survey on the Ethnomedicinal plants and Antimicrobial activity of <i>Tridax procumbens</i> L.	
<i>Soumyaranjan Behera, Gyanranjan Mahalik</i>	219
● Evaluation the Antioxidant Enzymes Activity in Adults Male Rats Treated with Some New 3-mercapto1,2,4-triazole Derivatives	
<i>Sadiq Al-Mansury, Mohammed A. Aboktifa, Adnan M Jassim, Asim A. Balakit, Fatin Fadhel Alkazazz</i>	224
● Formulation and Evaluation of Lamotrigine Loaded Nanosponges	
<i>Tarun Kumar Satpathy, Neelesh Chaubey, Chandan Kumar Brahma, Mittal Maheshwari</i>	229
● Synthesis of Novel 6-(chloromethyl) - N²- (1 - (4-substituted phenyl) - 3-phenyl - 1H-pyrazol - 4-yl) methylene)-N⁴- aryl-1, 3, 5-triazine - 2, 4-diamine derivatives and their Antimicrobial Activity	
<i>Neelottama Kushwaha, C.S. Sharma</i>	236
● Clinical Significance of Erythrocyte Sedimentation Rate in Tuberculosis	
<i>Sonti Sulochana, Gayathri, Jalvadi Rahul Siddartha, Jennifer fathima</i>	245
● HR-LCMS and <i>In vitro</i> cytotoxicity analysis of <i>Alseodaphne semecarpifolia</i> stem bark and leaf methanol extracts	
<i>Ganadhral Puttaramaiah Chethankumara, Venkatarangaiah Krishna, Kakanahalli Nagaraj</i>	250
● De Novo In-silico Pharmacological Analysis of Herbal Phytoconstituents for COVID-19 Treatment	
<i>Safiya sultana T, Umamaheswari S, Sivakumar M, Umar Khan S</i>	257
● Qualitative Phytochemical Screening and Effectiveness Analysis of <i>Batissa violacea celebensis</i> Martens 1897 Crude extract against Antioxidant and Cytotoxic Activity	
<i>Sri Anggarini Rasyid, Maria Bintang, Suryani As'ad, Upik Miskad, Rahmawati Minhajat, Ridwan Adi Surya</i>	263
● Lipid Lowering Effects of Herbal Supplements: A Review	
<i>Elizabeth Tan, Erwin Faller</i>	270
● Development and validation of a new stability indicating RP-UFLC method for the estimation of Perampanel in presence of internal standard	
<i>N S Yamani, Mukthinuthalapati Mathrusri Annapurna</i>	279
● Extraction and Phytochemical screening of <i>Tagetes erecta</i> L. Flower extract	
<i>Ankur Agrawal, Nitesh Jain, Rohit Singhal</i>	285
● Antibiotic resistance pattern and clonal relationship of <i>Enterobacter</i> spp isolates from different clinical samples in Odisha, India	
<i>Debi Prashad Mohapatra, Prashant Tiwari, Nagen Kumar Debata, Santosh Kumar Singh</i>	288
● <i>Parthenium</i>-Turmeric ointment: A novel approach for excision wound healing on rabbits	

<i>Ayon Dutta, Dipanjana Ash, Animesh Roy, Piyali Khamkat, Abhishek Ghosh</i>	293
● High Performance Liquid Chromatographic Method for the Determination of Mesalamine in Bulk Drug and Pharmaceutical Dosage Forms	
<i>Srinivasa Rao Narala, K. Saraswathi</i>	301
● Pharmaceutical care program for Polymedicated elderly patients visiting Community Pharmacies in UAE during COVID-19 Pandemic: A Study Protocol	
<i>Bayan S. Dawood, Muae Al Omar, Subish Palaian</i>	305
● Quick-identification of total phenolic and flavonoid content of <i>Mangifera foetida</i>, <i>Lagerstroemia speciosa</i> and <i>Impatiens balsamina</i> gathered from Riau, Sumatera	
<i>Erlia Anggrainy Sianipar, Sanjayadi, Beatrice Lin, Monika Arvia Chiara, Agustina D R Nurcahyanti</i>	311
● Development and Validation of Knowledge, Attitude, and Practice Towards Antibiotics Questionnaire (KAPAQ) for General Community	
<i>Hidayah Karuniawati, Mohamed Azmi Ahmad Hassali, Sri Suryawati, Wan Ismahanisa Ismail, Taufik Taufik, M Mutalazimah</i>	315
● Anti-proliferative activity of <i>in vitro</i> Zingiberaceae essential oil against Human cervical cancer (HeLa) cell line	
<i>Reena Parida, Sanghamitra Nayak</i>	325
● COVID-19 Pandemic: current Challenges and future Perspectives	
<i>Sameh Saber, Ahmed E. Khodir, Abdalkareem Omar Maghmomeh, Nehal A. Nouh, Ahmed M. El-Baz</i>	329
● The Oxidative status in Children with Autism receiving Melatonin	
<i>Mohammed B. Mohammed, Yasir S J Alrubaye</i>	338
● Comparison of the Bond Strength of Circular and Oval-Shaped Fiber-Reinforced Composite Posts in Oval Shaped Canals	
<i>Alaa Waleed Al Jaouni, Souad Abboud</i>	343
● Popular Diabetes Mobile Applications for Medication Intake Monitoring	
<i>D.V. Babaskin, T.M. Litvinova, L.I. Babaskina, O.V. Krylova, E.A. Winter</i>	347
● Antioxidant, Cytotoxic Activities and Characterization of Secondary Metabolites of Endophytic Fungus <i>Schizophyllum commune</i> isolated from <i>Coleus amboinicus</i> (Lour.) Leaves	
<i>Fitra Romadhonsyah, Baiq Maylinda Gemantari, Arief Nurrochmad, Subagus Wahyuono, Puji Astuti</i>	357
● Anti-Hyperglycemic effect of Polyherbal Formulation in Glucose Loaded and Epinephrine Induced Hyperglycemic Wistar rats	
<i>Vikas B Gawali, Niraj S Vyawahare</i>	365
● Medication Adherence and Characteristics of Hypertensive Patients: A Study in Rural Areas	
<i>Husnawati, Elin Yulinah Sukandar, Kusnandar Anggadiredja</i>	370
● Study of Phenolic Compounds of <i>Prunus Domestica</i> Presscake and Antimicrobial Activity of Its Extract	
<i>Taras V. Upyr, Larysa V. Lenchyk, Mykola A. Komisarenko, Ganjina F. Navruzzoda, Andriy M. Komisarenko, Tetiana P. Osolodchenko, Svitlana V. Ponomarenko</i>	375
● Potency of <i>Nigella sativa</i> linn. Seed as antidiabetic (preclinical study)	
<i>Em Sutrisna, Tanti azizah, Sri Wahyuni</i>	381
● Protective Effect of <i>Colocasia esculenta</i> on TNBS Induced Ulcerative Colitis in Mice	
<i>Srikanta Chandra, Tathagata Roy, Preeta Bose, Somsubhra Ghosh, Susanta Paul, Victor roychowdhury, Anannya Bose, Ankita Acharya</i>	385
● Adjuvant Therapy of <i>Syzygium cumini</i> Leaf and Fruit Extract Nanoparticles to Histopathological Changes of Mice Organ with Malaria	

<i>Lilik Maslachah, Thomas V Widiyatno, Nusdianto Triakoso, Suwarno, Koesnoto P, Nanda Ayu Narulita, Mahendra Pujiyanto, Zerlinda Dyah Ayu, Dita Nurkurnia Putri</i>	389
● Cost-Benefit Analysis of the Implementation of an Integrated Production Software in the Raw Materials Sector of A Pharmaceutical Industry	
<i>María Eugenia Raidán Garcete, Olga Maciel, Lupe Marin, Lourdes Barchello, Lourdes Samaniego, Gina Marin, María Gloria Domenech, Gladys Mabel Maidana, Gustavo H. Marin</i>	395
● Phytochemical profiling of hot and cold alcoholic extract from <i>Spirulina platensis</i> alga and Comparison between two extracts against multidrug -resistant bacteria	
<i>Raghad J. Fayyad, Ahmed S. Dwaish, Istabreq Muhammed Ali Sulman, and Siham N. Lefta</i>	399
● Ricin in Castor Bean (<i>Ricinus communis</i> L.) Seeds: A Review on its Anticancer Activity and The Role of Cytotoxicity Enhancers	
<i>Irma Erika Herawati, Jutti Levita, Ronny Lesmana, Anas Subarnas</i>	405
● A Review of Current treatment for Triple-Negative Breast Cancer (TNBC)	
<i>Wahyuni, Ajeng Diantini, Mohammad Ghozali, I Sahidin</i>	409
● Quinazolinone - A Biologically Active Scaffold	
<i>Rashmi T, M Gnana Ruba Priya, V Murugan</i>	419
● A brief review on pregnancy risk reasoned to COVID-19	
<i>Mon Mon Yee¹, Mi Mi Khaing, Khin Than Yee, Aye Mya Thidar</i>	424
● Recent Trends in Floating Drug Delivery System	
<i>D R Parida, A A Kharia, N K Choudhary</i>	429
● Implementation of Quality by Design Approach for Method Development and Validation: A Review	
<i>Sowmya HG, M. Gnana Ruba Priya, V. Murugan</i>	436
● Pharmacological repurposed agents for COVID-19	
<i>Dr. Mohd Alaraj</i>	441
● Orodispersible thin films: A Hodiernal Perspective in Drug Delivery System	
<i>Sweta Kamboj, Rohit Dutt, Rohit Kamboj</i>	447
● Apigenin: Review of Mechanisms of Action as Antimalarial	
<i>Faizal Hermanto, Anas Subarnas, Afifah B. Sutjiatmo, Afiat Berbudi</i>	458
● COVID-19: Immune response	
<i>Hyam Raouf Al-Hamamy</i>	467
● Zinc Oxide Nanoparticles Bacterial Synthesis and Application	
<i>Dina E. EL-Ghwas, Abir S. Al-Nasser, Ghaida A. Zamil</i>	471
● The Future Prospective: Potential Magnesium and Calcium for Detracting Side Effect Cisplatin	
<i>Syafika Alaydrus, Ajeng Diantini, Riezki Amalia, Sriwidodo, Anis Yohana Chaerunisa, Nasrul Wathoni</i>	481
● Nanosuspension as an emerging Nanotechnology and Techniques for its Development	
<i>Runa Chakravorty</i>	489
● Pharmacokinetic and Pharmacodynamic studies of Omeprazole Co-crystals dry suspension	
<i>Madhuri Gaddam, Nagaraju Ravouru</i>	494
● Instruction to author	499