

CONTENT

- **Design, Synthesis and Characterization of Novel Coumarin Derivatives as Potential Human Epidermal Growth Receptor - 2 Inhibitors for their Anti-Breast Cancer Activity**
Astha, Monika Gupta, Anju Goyal, Neelam Jain, Somnath Bhinge, Rashmi Arora 957
- **Biological activity of *Curculigo latifolia* extract as skin antiaging: In vitro and silico studies approach**
Syamsu Nur, Muhammad Hanafi, Heri Setiawan, Fitriyanti J. Sami, Berna Elya 980
- **Microwave -Assisted Extraction of Sweet Lime Peel and Quantification of its Bio-Actives using HRLC-MS/MS**
Deo S.K., Sakhale B.K. 993
- **Association between Serum Liver Enzymes among Hypertensive Type II Diabetes Mellitus patients: A Cross-sectional Study**
Simran Goel, Sristi Anupam, Dinesh Kumar Mehta, Rina Das 1001
- **Fingerprinting, Breast Cancer Inhibition of *Premna serratifolia* Extracts by In vitro and In silico Approaches**
Dini Hadiarti, Hamdil Mukhlisin, Masriani 1006
- **Exploring the Anticancer Potential of *Diospyros chloroxylon* Roxb.: Insights from Phytochemical Profiling and In silico Docking studies**
Ramya Krishna Ravuri, Deva H Puranam, Eswar Kumar Kilari 1013
- **High-resolution Doppler Sonography and Magnetic Resonance Imaging in Evaluating Carotid Stenosis and Plaque Morphology**
Soumya Ranjan Pradhan, Madhusmita Mohanty, Nihar Ranjan Mohanty, Sashibhusan Dash 1021
- **Alcohol-Induced Dose Dumping: A Comparative study of marketed formulation of Mirabegron tablets by UV and HPLC**
Vidhya K. Bhusari, Akanksha B. Lonkar, Rinku U. Dey, Minal R. Ghante 1028
- **Unveiling the Potency: Antibacterial activities of Four Plants' Extracts against Isolated Bacteria from Burn wounds**
Bassel Yaser Albadawi, Mhd Isam Hasan Agah, Abdul Hakim Nattouf 1034
- **A Comparative Cost-Effectiveness Analysis of Intravenous Infusion Acetaminophen and Intramuscular Diclofenac for Post-Hysterectomy Pain Management: The AIDA Study**
Akhil Arun, Triveni L, Subhiksha V, Beulah Milton, Gomathy E 1040
- **Comparison of the Phytoconstituents in *Bauhinia purpurea* L. Bark Extracts and Evaluation of Pancreatic Lipase Inhibition and Antioxidant properties of *Bauhinia purpurea* L. bark Ethanolic Extract**
Saranya M, Anusha D, Chamudeeswari D 1047
- **Anti-Inflammatory Activities of Lycopene on Xylene-Induced Ear Oedema in Mice and its In-Vitro Evaluation towards Protein Denaturation**
Adryan Fristiody, Taifo Mahmud, Nuralifah, Loly Subhiaty Idrus, La Ode M. J. Purnama, Lidya A Haruna, Tyaz Andarzia, Fery I. Armadany, Fadhliah Malik, Rathapon Asasutjarit, Monsicha Khuanekaphan, Idin Sahidin, Wahyuni Wahyuni 1052

•	Development and <i>In vitro</i> Evaluation of Bioactive plant extracts Emulgel a study against Antimicrobial Activity and its Synergistic effect	
	<i>Neha Shivathaya, Udaykumar Bolmal, Santosh Kokitakar, Vijay Sangodi, Anand Ghante, Snehit Swami, Shradha Gurav</i>	1058
•	Calcium Carbonate from Eggshell Nanosuspension preparation by Bead Mill Method and its Antacid and Antibacterial activities	
	<i>Dadih Supriadi,, Anis Yohana Chaerunisaa, Marline Abdassah, Tiana Milanda</i>	1063
•	Formulation and Evaluation of Fast-Dissolving Oral Films of Empagliflozin	
	<i>C. Rubina Reichel, Santhiya L, Sarah Alexandrina J, Sathiya Raj R, Sethuraman A, Shibiya S</i>	1072
•	Development and Optimization of Rutin-loaded Nanolipid Carrier for the Healing and Management of Diabetic Wound	
	<i>Rahul Yadav, Anand Mahalvar</i>	1078
•	Interaction between Cytochrome P450 Isozymes and Antiseizure Medications: A Literature Review	
	<i>Urfianty,, Aidah Juliaty, Idham Jaya Ganda, Jumraini Tammase, Irfan Idris, Irawan Mangunatmadja, Muhammad Yunus Amran, Yanti Leman</i>	1089
•	Evaluation of <i>In-vitro</i> Anti-oxidant and Anti-diabetic Potential of <i>Mikania micrantha</i> Methanolic Leaves Extract	
	<i>Sumi Barman, Md Tamijur Rahman</i>	1096
•	Formulation and Validation of Tinea Pedis Cream using extract of <i>Madhuca indica</i>, <i>Curcuma longa</i> and <i>Shorea robusta</i>	
	<i>Ashwini Chakote, Nandkishor Duragkar</i>	1101
•	Flavanone compounds of <i>Cyperus rotundus</i> L: FTIR Profile and Alfa Glucosidase Enzyme Inhibition Assay	
	<i>Laeli Fitriyati, Laela Hayu Nurani, Dwi Utami, Wahyu Widyarningsih</i>	1108
•	In-silico Assessment of CYP2C19 and CYP3A4 Inhibitory Potential of Ilaprazole	
	<i>Priyadharshini Ananthathandavan, Damodharan Narayanasamy</i>	1113
•	Preparation, Characterization and <i>Ex vivo</i> Evaluation of <i>Trigonellafoenum-gracium</i> seeds extract-loaded Transfersosomal gel for the Treatment of Rheumatoid Arthritis	
	<i>Vandana, Hema Arya, Koushal Dhamija, Preeti Singh, Gautam Kumar</i>	1118
•	Comprehensive Investigation and Exploration of Metoprolol Impurities: Novel Synthesis, Refinement and Characterization	
	<i>Rutuja U. Gaikwad, Amit S. Tapkir, Nagesh R. Wadikar, Shejal K. Wakade, Ashok B. Pathak, Sandip M. Bhagat</i>	1128
•	Antioxidative Activities and Phytochemical content of different Organs of Longjack (<i>Eurycoma longifolia</i> Jack)	
	<i>Aristo H. Rendra, Muhamad Insanu, Sausan N. E. Pratiwi, Irda Fidrianny</i>	1134
•	Fucoxanthin Shields Vero Cells from H₂O₂-Induced Oxidative Damage by Potentially Activating the Nrf2 Signalling Pathway	
	<i>Smita Kumbhar, Manish Bhatia, Prafulla Choudhari, Vinod Gaikwad, Mohini Salunke, Balaji Wakure</i>	1140
•	Molecular Docking, Synthesis and Pharmacological Screening of Indole-3-Mannich bases as EGFR Kinase Inhibitors to Combat non-small-cell Lung Cancer	
	<i>Sonal Pathak, Archana S. Gurjar</i>	1147
•	The Antimicrobial activity of Ginggiang (<i>Leea aequata</i> L.) leaf extract as Preservative and Antiseptic	
	<i>Purwaniati Purwaniati,, Muhammad Insanu, Maria Immaculata Iwo, Rahmana Emran Kartasasmita</i>	1154
•	The Effectiveness of Circumferential Pressure using Sphygmomanometer on Spasticity and Gait Pattern among Post Stroke patients – A Feasibility Study	
	<i>Bhuvana Kalaivanan, Prathap Suganthirababu, Vignesh Srinivasan, Sathya Siva</i>	1161

Periodontopathogen Antibacterial Properties of PMMA-HA as a Dental Implant Candidate Biomaterial in vitro <i>Chiquita Prahasanti, Rini Devijanti Ridwan, Alexander Patera Nugraha, Tansza Permata Setiana Putri, Nastiti Faradilla Ramadhani, Diah Savitri Ernawati, Raden Darmawan Setijanto, Devi Rianti, Tania Saskianti, Ratri Maya Sitalaksmi, Shafira Kurnia Supandi, Ida Bagus Narmada, I Gusti Aju Wahyu Ardani, Dwi Rahmawati, Fianza Rezkiti, Andari Sarasati, Tengku Natasha Eleena Tengku Ahmad Noor</i>	1166
Development and Validation of a Questionnaire to Assess the Knowledge, Attitude and Practices of Renal Failure patients towards their Disease <i>Anjali K, SP Bhatt</i>.....	1172
Standardization of Developed Kumaryasava Formulation utilizing Physicochemical, Spectral and Chromatographic Techniques <i>Pranali Gaikwad, Shitalkumar Patil</i>.....	1176
The Potency of 4-Methyl-3-Benzoyl Allylthiourea as Anti-Breast Cancer: Molecular Dynamic Simulation, Cytotoxic Activity and its Selectivity Index <i>Tri Widiandani,, Delis Susilawati, Mohammad Rizki Fadhil Pratama, Bambang Tri Purwanto,, Siswandono,, Farida Ifadotunnikmah</i>.....	1182
Preparation and Evaluation of Olanzapine Microsphere for Treatment of Depression and Obsessive Compulsive Disorder <i>M. T. Deshmukh, M. R. Ghante, T. V. Deshmukh, V.T. Deshmukh</i>.....	1189
Fermented Organic Wastes with enhanced values: Antioxidant activity, Anti-inflammation, Anti-diabetes and Bioaccessibility <i>Huong Thu Nguyen, Nhi Y Nguyen, Nhan My Pham and Ngoc Thanh Vu</i>.....	1192
Characterization and quality control of five essential oils according to the European Pharmacopeia and Antimicrobial activity <i>A. Alaoui, S. Dahbi, H. Lachguer, N. Sahri, E. El herradi, S. Amghar.</i>	1200
Effects of Hyperbaric Oxygen and <i>Myrmecodia pendans</i> Therapy on Alveolar Bone Remodeling in Orthodontic Treatment <i>Shinta Wijayanti, Endah Mardiaty, Ani Melani Maskoen, Ganesha Wandawa, Oryce Zahara, Ivan A Halim,</i>.....	1209
LC-ESI-MS Characterization of Degradents of Brivaracetam; Development and Validation of a Stability-Indicating RP-HPLC Method <i>Sanjay D. Sawant, Shital D. Godse</i>.....	1218
The impact of the COVID-19 Epidemic on Mental Health among University Staff and Students: An Institution-Based Cross-Sectional Study <i>Swe Swe Latt, Saraswathi Bina Rai, Leela, Sudarsan, Manickam Ravichandran</i>.....	1224
5-hydroxyindoleacetic Acid in the Diagnosis and Monitoring of PAH in Children after Congenital Heart Defect Surgical Correction <i>Farida Mindubayeva, Yuliya Niyazova, Yelena Salikhova, Mariya Ospanova, Zhanat Bolatbekuly, Lyudmila Akhmaltdinova, Diana Salekhova</i>.....	1232
Application of Vis/NIR and FTIR Spectroscopy combined with Chemometrics for the Authentication of Red fruit oil from Coconut oil <i>Mustika Erlinaningrum, Abdul Rohman, Agustina Ari Murti Budi Hastuti</i>	1237
Simultaneous Quantification of Calcium and Magnesium in Pharmaceutical Ingredients and supplements (Injections, and Tablets) using Carboxyl Moiety Stationary Phase HPLC Column with Refractive Index detector <i>Nagavardhana Reddy Vanga, Venkata Ratnam K, Kumarswamy Ummiti, Venkata Nadh Ratnakaram</i>.....	1244

•	Physicochemical determinants of blood brain barrier penetrating molecules	
	<i>Sneha Pandey, Anoop Kumar Tiwari, Kottakkaran Sooppy Nisar, Abhigyan Nath</i>	1250
•	OPG/RANKL Ratio Post Implantation of Polymethylmethacrylate -Hydroxyapatite (PMMA/HAp) in Wistar Rats (<i>Rattus norvegicus</i>) Femur	
	<i>Lambang Bargowo, Andry Elvandari, Shafira Kurnia Supandi, Liestyani Adista Darsana, Banun Kusumawardani, Chiquita Prahasanti</i>	1258
•	Spectrofluorimetric Method Development and Validation of Doravirine and Tablet Formulation	
	<i>Rina Ikhar, Prafulla Sabale, Komal Somkuwar, Vaibhav Sawale, Vidya Sabale, Amol Warokar</i>	1263
•	Characterization of Opportunistic Bacterial Strains in Intensive Care Unit patients and Assessment of Natural Crude Extracts for Antibacterial Drugs: A Cross-Sectional Study	
	<i>Mohammad Alzaareer, Ahmad Khusairi Azemi, Atef M. Shibl, Murad Sawalha, Hanadi A. Alahmadi, Rami A. Elshatarat, Bayan Oleimat, Amany A. Saleh, Ziad T. Saleh, Noraznawati Ismail</i>	1268
•	Response of Recombinant Protein Based on Epitopes of the Spike Protein SARS-CoV-2 Indonesian Isolate: Immune and Leucocytes	
	<i>Erlia Narulita, Riska Ayu Febrianti, Erma Sulistyaningsih, Achmad Syaiful Ludfi, Yuana Putri Meirina, Jepri Agung Priyanto, Priyambodo, Aditya Kurniawan</i>	1276
•	Reusable vs. Plastic: An Examination of Lebanese Pharmacy Students' Bottle Habits	
	<i>Ghassan M. Sonji, Nada M. Sonji, Nisreen Mourad, Rima Boukhary, Mohammad Assi, Mohamad Rahal</i>	1283
•	An Observational Study on Management of Refractory Hypertension in patients with Chronic Kidney Disease Stage-V on maintenance Haemodialysis	
	<i>Nazma, Syeda Zuleqaunnisa Begum, Mohammed Fareedullah, Shaik Abdul Kareem, Anjum Fatima, Asfia Firdous, Sulaiman Abdul Majeed</i>	1290
•	Characterization of The Physicochemical properties of Celecoxib-PEG 4000 Solid Dispersion using The Co-Grinding Method	
	<i>Indra Makmur, Muthia Fadhila, Maria Dona Octavia, Putri Ramita, Henni Rosaini</i>	1296
•	Elemental Impurities Estimation in Adenosine Injection using ICP-MS	
	<i>Ajay Singh Raghuwanshi, Akash Ved, Shikhar Verma</i>	1302
•	Chitosan Nanoparticles Enhance Permeability of Rizatriptan in Mucoadhesive Buccal Films: A Promising approach for Improved Drug Delivery	
	<i>Shilpaja Chella, Saravanakumar Kasimedu, Nagaveni Pommala, Ashok Thulluru, Mallikarjuna Gandla, Prudhvi Raj Vadamala</i>	1308
•	Metronidazole Loading in MIL-101(Fe) and Investigation of release in various body fluids	
	<i>IKh Shaykhutdinov, IM Bairikov, AA Shmelev, AV Sokolov</i>	1317
•	Synergetic Impact of Combined rutin and Exosome on Apoptosis in Prostate Cancer Cells	
	<i>Maysa Alhawamdeh</i>	1324
•	The Activity of Phytochemical content in “TELARI” as Functional Drink in reducing Glycaemia levels in The Elderly	
	<i>Tri Prasetyorini, Citra Amaniah Anhar, Bagya Mujianto</i>	1330
•	Formulation and Evaluation of Orally Disintegrating Tablets of Tadalafil and Dapoxetine HCl prepared by Direct Compression and Freeze-Drying Techniques with Taste Masking of Dapoxetine HCl.	
	<i>Ali Bustani, Yaser Bitar, Wassim Abdelwahed</i>	1336
•	Virtual screening and molecular docking study of alpha-naphthoflavone analogs as cytochromes P450-1A1 inhibitors	
	<i>Suprpto Suprpto, Yatim Lailun Ni'mah, Zulkarnain</i>	1346

•	Development of Novel Method for Isolation of Herbal Surfactant from selected Medicinal Plants by Flash Chromatography and Characterization by HPTLC, IR and PMR.	
	<i>Atul Baravkar, Vitthal Chopde, Pradeep Bodake, Amit Lunkad, Sonali Pawar, Aditi Kushare, Bindurani LGP Ram, Dattatray Kature, Avinash Tupe, Gaffar Sayyad, Sanjay Garje</i>	1357
•	Determination of some Heavy Metals in Children's Food	
	<i>Nazira Sarkis, Saad Antakli, Amjad Qabawa</i>	1368
•	Anticancer property of β-sitosterol studied in MG 63 Osteosarcoma cell line	
	<i>U.S. Mahadeva Rao, S. Ragunandhakumar, G. Shoba, D. Saravanan, P. Malliga, G. Sriram Prasath</i>	1374
•	Attitude of Parents Towards Various Behavior Management Techniques Utilized in Pediatric Dental Treatments	
	<i>Wasim Kamate, Rahul R. Kurup, Amitabh Roy, Anuradha Pillai, Puja Malhotra, Ashok Hajare</i>	1380
•	Virtual screening of <i>Dioscorea alata</i> active compound in the Sphingolipid metabolic pathway in endometriosis-related genes	
	<i>Sri Nabawiyati Nurul Makiyah , Ivanna Beru Brahmana , Mulyoto Pangestu , Ahmad Hafidul Ahkam</i>	1386
•	Impact of Intermittent Hypobaric Hypoxia on HIF-1α and VEGF Expression for Mandibular Bone Osteogenesis: A Scoping Review	
	<i>Ista Damayanti, Wawan Mulyawan, Bambang Pontjo Priosoeryanto, Meirina Gartika, Harmas Yazid Yusuf</i>	1394
•	Insightful Review of Antibiotics in Endodontics	
	<i>Mohammad Aleemuddin, Ayesha Sultana, Vivian Flourish D Costa</i>	1405
•	Ethnomedicinal Practices, Bioactive Constituents, and Pharmacological Applications of <i>Ficus religiosa</i> L. (Moraceae): A Comprehensive and Systematic Review	
	<i>Rahul Gaur, Anjali Chauhan, Chandra Kanta</i>	1410
•	A Narrative Review on Morphological Description, Ethnomedicinal Usage, Phytochemical Constituents and Pharmacological Activities: <i>Microcos paniculata</i>	
	<i>Sadia Afrin, Muhammad Shoket Islam, Suresh Babu Kondaveeti, H.S. Batra, Raiyan Azmee, Marzan Azmee, Fatiha Jakir, Mohammad Chand Jamali, Raed Fanoukh Aboqader Al-Aouadi, Calvin R. Wei, Nikolaus Syrmos, Rezwan Ahmed Mahedi, Al Mamun Shohag</i>	1419
•	Gene Suppression by siRNA to Induce Apoptosis and Inhibit Tumor Growth on Neuroblastoma Models: A Systematic Review	
	<i>Arrum Rizky Andreani, Muhammad Ihwan Narwanto, Pipiet Wulandari, Wiwien Sugih Utami, Heni Fatmawati</i>	1428
•	An Overview on Structural and Functional Characterization of Drug-Excipient Compatibility Studies by FTIR, DSC, XRD and TGA	
	<i>Smita Daware, Sakshi Baiwar, Amol Warokar, Kedar Somani, Sayali Waghmare, Shashank Agrawal</i>	1434
•	Examine the Role of Systemic Inflammation from COVID-19 in Exacerbating Pre-existing Periodontal Conditions	
	<i>Hasan Rezazadeh, Aria Salari, Hasti Hoseini</i>	1439
•	Metabolomics and Bioactivity Studies of Several <i>Ziziphus</i>: A Review	
	<i>Ihsanul Hafiz, Nizar Happyana, Muhamad Insanu</i>	1446
•	Review of clinical studies of herbal products as a treatment option in recurrent Aphthous stomatitis	
	<i>Vaishali Kilor, Nidhi Sapkal, Sana Shaikh</i>	1456
•	Instructions to author	1466