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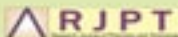
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Email: dhananjaydeshmukh777@gmail.com

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Department of Bioinformatics School of Life Sciences Indonesia International Institute for Life Sciences Jl. Pulomas Barat Kav.88 Jakarta 13210

Email: arli.parikesit@i3l.ac.id

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**DR G KUMARASWAMY ()**

Associate Editor

Dr.Kumara Swamy, Gandla Prof.& HeadDept.of Pharmaceutical AnalysisCare College of Pharmacy, Warangal, Telangana.Mobile: +91-9000973789

Email: kumaraswamy.gandla@gmail.com

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Associate Editor  
222 pashupatinath nagar, jaipur  
Email: hardikaeshu@gmail.com  
[🏠 Home Page \(\)](#)



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Associate Editor  
46001, Ternopil, Voli Str., 1. Ukraine  
Email: shanayda-mi@ukr.net  
[🏠 Home Page \(\)](#)



**DR. G. MANIKANDAN ()**

Associate Editor  
Dr. G.Manikandan Assistant Professor Department of Botany Sri Kaliswari College  
(Autonomous) Sivakasi - 626130 Tamil Nadu India  
Email: rgmani.19@gmail.com  
[🏠 Home Page \(\)](#)



**DR.S.MOHANASUNDARAM ()**

Associate Editor  
Department of Biochemistry, Sri Sankara Arts and Science College (Autonomous),  
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Email: sbmohan2007@gmail.com  
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Email: drshaesta@gmail.com  
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Associate Editor  
T2,staff quarters, ksr Institutions, ksr kalvi nagar, Tiruchengode-637215, Tamilnadu  
Email: karteeswara@gmail.com  
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Sciences, Nnamdi Azikiwe University, Awka, Anambra State, Nigeria  
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Associate Editor  
Department of Transdisciplinary Research, Division of Research &  
Development, Lovely Professional University, Phagwara, Punjab, India-144402  
Email: prabhakar.iitm@gmail.com  
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**EBAA ADNAN AZOOZ ()**

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Email: ebaaadnan.ed12p@uokufa.edu.iq  
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Associate Editor  
Prof. and Head, Department of Botany The Institute of Science 15- Madame Cama Road Fort,  
Mumbai  
Email: drmendhulkar@gmail.com  
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Associate Editor  
Department of Chemistry NIT Raipur -492010,India  
Email: skpiitbbs@gmail.com  
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Associate Editor  
JAYKAYPUR[PAPRI], RAYAGADA, ODISHA  
Email: uptripathy@gmail.com  
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**SONAM BHATIA ()**

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of Agriculture, Technology and Sciences, Prayagraj, India  
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**DR. GURJEET KAUR ()**

Associate Editor  
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Email: gkaur@lko.amity.edu  
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**HUSSEIN O.M. AL-DAHMOshi ()**

Associate Editor  
Iraq, Babylon Province Hilla City  
Email: dr.dahmoshi83@gmail.com  
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**DR. BISWAJIT BASU ()**

Associate Editor  
Dr. Biswajit Basu. Associate Professor. Department of Pharmaceutics. Bengal School of  
Technology, Sugandha, Delhi Road, Hooghly - 712 102, West Bengal India.  
Email: bbasu.pharma@gmail.com  
[🏠 Home Page \(\)](#)



**BIMESH KUMAR ()**

Associate Editor  
BLOCK-4B, ROOM NO 203, SCHOOL OF PHARMACEUTICAL SCIENCES, LOVELY  
PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB, 144411  
Email: bimlesh1pharm@gmail.com  
[🏠 Home Page \(\)](#)



**DR. BELLAMKONDA RAMESH ()**

Associate Editor  
Department of Food Technology, Vikrama Simhapuri University, Nellore, Andhra Pradesh,  
India-524320  
Email: rammygp@gmail.com  
[🏠 Home Page \(\)](#)



**K. MAHALINGAN ()**

Associate Editor  
RR College of Pharmacy, RR Nagar, Chickabanawara, Bangalore- 560090  
Email: kmahalingan@gmail.com  
[🏠 Home Page \(\)](#)



**DR. RUPESH K. GAUTAM ()**

Associate Editor  
MM School of Pharmacy, MM University, Ambala-Chandigarh Highway, Sadopur-Ambala  
(India) -134007  
Email: drrupeshgautam@gmail.com  
[🏠 Home Page \(\)](#)



**DR LINU MOHAN P ()**

Associate Editor  
Professor Department of Pharmacy Practice Al Shifa College of Pharmacy Perinthalmanna-  
Kerala- India  
Email: linumohanp@alshifacollegeofpharmacy.ac.in  
[🏠 Home Page \(\)](#)



**SHANKAR BALU KALBHARE ()**

Associate Editor  
YSPM'S Yashoda Technical Campus, Satara 415003  
Email: kirankal786@gmail.com  
[🏠 Home Page \(\)](#)



**R. SUNDARALINGAM ()**

Associate Editor  
Assistant Professor, Department of Microbiology, Madras Christian College (Autonomous),  
Tambaram, Chennai - 600059, Tamilnadu  
Email: sundaralingam@mcc.edu.in  
[🏠 Home Page \(\)](#)



**DR ANUPAM KR SACHAN ()**

Associate Editor  
Dayanand Dinanath College, Institute of Pharmacy, Kanpur Nagar, Uttar Pradesh-208027  
Email: anupamkrsachan@gmail.com  
[🏠 Home Page \(\)](#)



**MANIKANDAN K ()**

Associate Editor  
SRM College of Pharmacy SRM Institute of Science and Technology Kattankulathur,  
Kancheepuram  
Email: gurumani12@gmail.com  
[🏠 Home Page \(\)](#)



**DR. PAVAN KUMAR ()**

Associate Editor  
Koneru Lakshmaiah Education Foundation KLEF  
Email: pavankmaths@gmail.com  
[🏠 Home Page \(\)](#)



**ASHEESH SINGH ()**

Associate Editor  
M-303, Swastik city near Pooja park, Lambha turning Narol-Ahmedabad-382405  
Email: asheesh\_parihar@yahoo.com  
[🏠 Home Page \(\)](#)



**SWARNIMA PANDEY ()**

Associate Editor  
Goel Institute of Pharmacy & Sciences, Faizabad road lucknow 226028  
Email: yesgoldi@gmail.com  
[🏠 Home Page \(\)](#)



**DR. PARUL JOHRI ()**

Associate Editor  
C-1/167 indra nagar kanpur  
Email: pjohri@lko.amity.edu  
[🏠 Home Page \(\)](#)



**MORTEZA SAKI ()**

Associate Editor  
Department of Microbiology, Faculty of Medicine Ahvaz Jundishapur University of Medical  
Sciences Ahvaz  
Email: mortezasaki1981@gmail.com  
[🏠 Home Page \(\)](#)



**DUMPALA LAKSHMI PRASUNA RAJESH ()**

Associate Editor  
Sumandeep Pharmacy college AT & PO: PIPARIA, WAGHODIA ROAD, TA: WAGHODIA,  
VADODARA- 391760  
Email: mlakshmi prasuna2015@gmail.com  
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**DR. S. BALASUBRAMANIAN ()**

Associate Editor  
National Centre for Coastal Research Chennai.  
Email: sakthivelbala.s@gmail.com  
[🏠 Home Page \(\)](#)



**PROF. DR. NAGHAM MAHMOOD ALJAM ()**

Associate Editor

Professor, Ph.D, Organic Chemistry , Iraq dr.nagham\_mj@yahoo.com

Email: dr.nagham\_mj@yahoo.com

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**ARIF NUR MUHAMMAD ANSORI ()**

Associate Editor

Universitas Airlangga, Surabaya, Indonesia.

Email: arif.nma-17@fkh.unair.ac.id

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Associate Editor

33B, kannadhasan street, new balaji nagar, selaiyur , chennai.

Email: jaibhaskar15@gmail.com

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**DIMPLE NAGPAL ()**

Associate Editor

Chitkara University,Punjab

Email: dimplenagpal009@gmail.com

[🏠 Home Page \(\)](#)



**DR VINAYAKUMAR KADIBAGIL ()**

Associate Editor

BELUR ROAD, 2ND CROSS ABHI Building

Email: DRVINAYKADIBAGIL@GMAIL.COM

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**DR. ATUL KABRA ()**

Associate Editor

University Institute of Pharma Sciences Chandigarh University Mohali, Punjab

Email: atul.kbr@gmail.com

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Associate Editor

Airport St. Amman, Jordan

Email: ibrahim\_naseem@yahoo.com

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Associate Editor

Mr. Ravinandan A P, M. Pharm, MBA, FSASS, (Ph.D.) Assistant Professor, Clinical Pharmacist and Research Scholar Department of Pharmacy Practice Sree Siddaganga College of Pharmacy In Collaboration with Siddaganga Hospital and Research Centre BH Road, Tumkur, Karnataka, India

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**DR. PUTTA RAJESH KUMAR ()**

Associate Editor

Dr. Putta Rajesh Kumar, C/o: Amdapur X Road, Yenkapally, Moinabad, Ranga Reddy,

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**DR. SRIKANTH JEYABALAN ()**

Associate Editor

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Institute of Higher Education & Research (DU) Porur, Chennai , Tamil Nadu - 600 116

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**PROF.B.RAMYA KUBER ()**

Associate Editor

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**MORTHA LAKSHMI PRASANNA ()**

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VJ'S COLLEGE OF PHARMACY Diwancheruvu Rajahmundry, andhra pradesh Pin 533296

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Associate Editor

Department of Pharmacy, College of Health Sciences, Debre Tabor University, Ethiopia

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Associate Editor

Department of Pharmacy, College of Health Sciences, Debre Tabor University, Ethiopia

Email: pradeep\_2682@yahoo.co.in



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Email: iamsasikalamohit@gmail.com

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Associate Editor

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Email: dr.nagham\_mj@yahoo.com

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Associate Editor

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Email: drkakde@yahoo.com

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Email: ashu.mpharm2007@gmail.com

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Associate Editor  
Kuala Terengganu, Malaysia  
Email: raousm@gmail.com

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Associate Editor  
Faculty of Pharmacy, AIMST University, 08100 Bedong, Kedah D.A., Malaysia.  
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Associate Editor  
Block 28, Room No. 202 Department of Biosciences, Lovely Professional University  
Email: deepanshsharma@gmail.com

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Email: deependraiop@gmail.com

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Nanotherapy Lab School of Biosciences and Technology, VIT, Vellore  
Email: ssrajeshkumar@hotmail.com

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**VASUNDHRA KASHYAP PHD, MBA, MS ()**

Associate Editor  
66 Lowden Avenue, Somerville, MA 02144 USA  
Email: vk76@cornell.edu

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Associate Editor

Department of Pharmacognosy and Botany, Danylo Halytsky Lviv National Medical University, Pekarska,69., Lviv, Ukraine, 79010

Email: [pharmacognosy.org.ua@ukr.net](mailto:pharmacognosy.org.ua@ukr.net)

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Associate Editor

Department of Pharmacology, School of Medicine, Shahrood University of Medical Sciences, Shahrood, Iran

Email: [behzad\\_foroutan@hotmail.com](mailto:behzad_foroutan@hotmail.com)

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**DR. BHARTI AHIRWAR** ()

Associate Professor, SLT Institute of Pharm. Sciences, Guru Ghasidas University, Bilaspur CG India

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RJPT House, Lokmanya GrihNirman Society, Rohanipuram, In-front of Sector- 1, Pt.

Deendayal Upadhyay Nagar, Raipur 492 010. (CG) India

Email: [sudhishrai7337@gmail.com](mailto:sudhishrai7337@gmail.com)

[🏠 Home Page](#) ()



**DR. ASHOK A. HAJARE** ()

Professor and Head, Department of Pharm. Tech., Bharati Vidyapeeth College of Pharmacy, Kolhapur (M.S.), India Pin - 416013

Email: [ashok.hajare@bharatividyaapeeth.edu](mailto:ashok.hajare@bharatividyaapeeth.edu)

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**SANYAM GANDHI** ()

International Regulatory Strategy Lead Takeda Pharmaceutical Company Ltd., 1 Kingdon St., Paddinton, London, W2 6BD England

Email: [askforsanyam@gmail.com](mailto:askforsanyam@gmail.com)

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**DR. AJAY KUMAR MEENA** ()

Captain Srinivasa Murthy Regional Ayurveda Drug Development Institute, Arumbakkam, Chennai - 600 106

Email: [ajaysheera@gmail.com](mailto:ajaysheera@gmail.com)

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## EDITORS

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**DR AVINASH B DAREKAR ()**

KVNNSPS, Institute of Pharmaceutical Education and Research, Canada Corner, Nashik, Maharashtra-422002.

Email: avibdarekar@gmail.com

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**PRAVEEN KUMAR SHARMA ()**

Department of Chemistry, Lovely Professional University, Phagwara, Punjab, India-144411

Email: pk\_pandit1982@yahoo.com

[🏠 Home Page \(\)](#)



**DR SUDIP KUMAR MANDAL ()**

Dr. B. C. Roy College of Pharmacy & Allied Health Sciences, Durgapur, West Bengal, India

Email: gotosudip79@gmail.com

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Dr.K.Manikandan, M.Pharm., Ph.D., Associate Professor, SRM College of Pharmacy, SRM University, Kattankulathur, Kancheepuram - 603203 Mobile Number - 0 9444708710

Email: manikank2@srmist.edu.in

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**DR SHAIK HARUN RASHEED ()**

professor & Head Srikrupa Institute of Pharmaceutical Sciences Velikatta, siddipet -502277 Telangana.

Email: shaikharunrasheed@gmail.com

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**DR. ASHISH KUMAR ()**

Professor and HOD, Department of Chemistry, Lovely Professional University, Jallandhar road Phagwara

Email: drashishchemlpu@gmail.com

[🏠 Home Page \(\)](#)



**DR. SHAKTA MANI SATYAM ()**

Department of Pharmacology, Melaka Manipal Medical College (Manipal Campus), Manipal Academy of Higher Education, Manipal- 576104, District- Udupi, State- Karnataka (India)

Email: smsatyam21@gmail.com

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**ABDULRAHMAN R. MAHMOOD ()**

\*Department of Chemistry, College of Education for Pure Sciences/(Ibn-Al-Haitham), University of Baghdad, Baghdad, Iraq.

Email: abdoaljmaily@gmail.com


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**DR. SUSHIL KUMAR MIDDHA ()**

Maharani Lakshmi Ammanni College For Women, 18th Cross, Malleswaram, Bangalore-12


Email: drsushilmiddha@gmail.com

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**MUNIM R. ALI ()**


Al-Mustansiriyah University Biology depart./college of Science Iraq/Baghdad  
Email: mnumbio77@yahoo.com

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**DR. GAURAV TIWARI ()**


G-23, Department of Pharmacy, PSIT, NH-2, Kalpi Road, Bhaunti Kanpur 209305  
Email: dr.gauravtiwari@psit.in

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**DR.ZEYAD KADHIM OLEIWI ()**


najaf-iraq  
Email: zeyadkadhim@alkafeel.edu.iq

 [Home Page \(\)](#)



**ASSIST. PROF. DR. AMAL TALIB A ()**


Dept. Clinical Laboratory Sciences/ Faculty of Pharmacy/ University of Babylon, Iraq.  
Email: amal.atiyah@yahoo.com

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**YAHIA MOHAMMAD MOUALLA ()**


Alsham private university, Latakia  
Email: Yahiamoualla@hotmail.com

 [Home Page \(\)](#)



**MOHANAD MOUSA KAREEM ()**


Babylon University  
Email: mohanad\_1972@yahoo.com

 [Home Page \(\)](#)



**ADAWIYA FADHIL ABBAS ALZUBAIDI ()**


Iraq / Diyala / Baqubah Diyala university / education college / pure science  
Email: adwa\_a2000@YAHOO.COM

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**MOUSHIRA ZAKI ()**


El Bhouth ST.  
Email: moushiraz@yahoo.com

 [Home Page \(\)](#)



**DR. AMIT KUMAR CHATURVEDI ()**

Department Of Chemistry, J.S.University, Shikohabad (U.P.)  
Email: achaturvedi794@gmail.com

 [Home Page \(\)](#)



**DR. MANOJ KUMAR JENA ()**

Department of Biotechnology, School of Bioengineering and Biosciences, Lovely Professional University, Phagwara-144411, Punjab, India  
Email: manoj.20283@lpu.co.in

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**AVINASH BABURAO THALKARI ()**

Vasant Pharmacy College Kaij Affiliated by MSBTE Mumbai  
Email: avinashthalkari@rediffmail.com

[🏠 Home Page \(\)](#)



**RAJESH L. DUMPALA ()**

Alembic Pharma Campus, Alembic Rd, Subhanpura, Vadodara, Gujarat 390003  
Email: rdumpala64@gmail.com

[🏠 Home Page \(\)](#)



**ABDULRAHMAN R. MAHMOOD ()**

\*Department of Chemistry, College of Education for Pure Sciences/(Ibn-Al-Haitham), University of Baghdad, Baghdad, Iraq.  
Email: abdulrahman.r.m@ihcoedu.uobaghdad.edu.iq

[🏠 Home Page \(\)](#)



**DR. T.C. VENKATESWARULU ()**

Department of Bio-Technology, Vignan's Foundation for Science, Technology & Research, Vadlamudi-522213, Andhra Pradesh  
Email: venki\_biotech327@yahoo.com

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**DR PRASHANT L. PINGALE ()**

Associate Professor of Pharmaceutics, GES's Sir Dr. M. S. Gosavi College of Pharmaceutical Education and Research, Nashik-422005, Maharashtra, India  
Email: prashantpingale@gmail.com

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**DR GURVINDER SINGH ()**

School of Pharmaceutical Sciences, Lovely Professional University, Phagwara, Punjab  
Email: guri\_ph@yahoo.co.in

[🏠 Home Page \(\)](#)



**DR. SUSHANT KUMAR ()**

UTTAR PRADESH UNIVERSITY OF MEDICAL SCIENCES, SAIFAI, ETWAH, UTTAR PRADESH  
Email: K.SUSHANT25@GMAIL.COM

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**MR. PARESH ASHOK PATIL ()**



Jay ambe Nivas,Gujar galli, Shahada Dist-Nandurbar  
Email: rcp.pareshpatil@gmail.com  
[🏠 Home Page \(\)](#)



**VAMSIKRISHAN BIRUPANENI ()**  
4401 manchester avenue, Apt#53,CA,95207.  
Email: vamsikrishan99@gmail.com  
[🏠 Home Page \(\)](#)



**DR. SUNIL KUMAR ()**  
122 Ground Floor Research Block A Post Graduate Institute of Medical education and Research  
Email: drsunilkumarjaswal@gmail.com  
[🏠 Home Page \(\)](#)



**SANDEEP PODDAR ()**  
Lincoln University College, Wisma Lincoln, No. 12-18, Off Jalan Perbandaran, SS6/12 Kelana Jaya, Selangor D. E., Malaysia  
Email: sandeepoddar@lincoln.edu.my  
[🏠 Home Page \(\)](#)



**DR ZAKIR HUSSAIN ()**  
Dr Zakir hussain S/o MD.UNUS Rtd Express mail guard SCRLY Near mohammadia masjid, Satyanarayana pet GUNTAKAL-515801 ANANTAPUR DIST ANDHRA PRADESH-INDIA  
Email: zakirhussains765@gmail.com  
[🏠 Home Page \(\)](#)



**BASIL A. ABBAS ()**  
University of Basrah, Basrah, Iraq  
Email: basil.abbas@uobasrah.edu.iq  
[🏠 Home Page \(\)](#)



**DR V. PALANISINGH ()**  
Puduvadi, Ulagampatti post Sivagangai Dist, Tamil Nadu PIN 630410  
Email: vpalanisingham@gmail.com  
[🏠 Home Page \(\)](#)



**NASIR MUWFAQ YOUNIS ()**  
University of Mosul \_College of Nursing  
Email: nasir.muwfaq@uomosul.edu.iq  
[🏠 Home Page \(\)](#)



**SANDIP SEN ()**  
SRIKRUPPA INSITUTE OF PHARMACEUTICAL SCIENCES, VELIKATTA, KONDAPKKA, SIDDIPET-502277  
Email: sandipsen2010@gmail.com  
[🏠 Home Page \(\)](#)



**DR. BISWA MOHAN SAHOO ()**

Roland Institute of Pharmaceutical Sciences (Biju Patnaik University of Technology Nodal Centre of Research) Berhampur-760010, Odisha, India  
Email: drbiswamohansahoo@gmail.com  
🏠 Home Page ()



**DR.MATADEEN BHARTI ()**

Department of Fluorosis Chief Medical and Health Office Dhar District Dhar MP India pin code 454001  
Email: drmdbharti@gmail.com  
🏠 Home Page ()



**DR PRASENJIT MONDAL ()**

Vaageswari institute of Pharmaceutical Sciences, Ramakrishna colony, Karimnagar, Telangana, India  
Email: prasenjitmyname@gmail.com  
🏠 Home Page ()



**DR ANJU THAWARE ()**

Associate professor, Dept of samhita Siddhant ,MGACRCH,salod wardha ,(DMIMSU,wardha) Maharashtra ,India  
Email: anju.samhita@dmimsu.edu.in  
🏠 Home Page (<https://mgachrc.org/departments>)



**DR. NITIN SHARMA ()**

Department of Biotechnology Chandigarh Group of Colleges, Landran, Mohali- 140307  
Email: nitin.3994@cgc.edu.in  
🏠 Home Page (<https://www.cgc.edu.in/chandigarh-college-of-technology>)



**PROF. GALLA RAJITHA ()**

Prof. G. Rajitha, Professor, Institute of Pharmaceutical Technology, Sri Padmavati Mahila Visvavidyalayam, Tirupati - 517502, Andhra Pradesh, India  
Email: rajitha.galla@gmail.com  
🏠 Home Page (<http://www.spmvv.ac.in/>)



**ASHISH GUPTA ()**

Flat no.E113,Nariman Point, Mahalaxmi Nagar Indore MP  
Email: ashishgupta@acropolis.edu.in  
🏠 Home Page ([www.acropolis.in](http://www.acropolis.in))



**HUSAM AL-HRAISHAWI ()**

195 Little Albany St,  
Email: hra10@scarletmail.rutgers.edu  
🏠 Home Page (<https://uomisan.edu.iq/ar/>)



**TUHIN SARKAR ()**

Jakir Hossain Institute of Pharmacy, Vill. & P.O.- Miapur, Dist.- Murshidabad, Pin: 742225, West Bengal.  
Email: gantuhin@gmail.com



🏠 Home Page (<http://www.jhip-india.co/>)



**BHUPENDRA G. PRAJAPATI ()**

Ganpat Vidyanagar, Mahesna 384012

Email: [bhupen27@gmail.com](mailto:bhupen27@gmail.com)

🏠 Home Page (<https://skpcper.guni.ac.in/about/pharmaceutics-and-pharmaceutical-technology>)



**DR K RAJYALAKSHMI ()**

Department of Pharmaceutical Chemistry, Vignan Pharmacy College, Vadlamudi, Guntur, A.P.

Email: [drkr13579@gmail.com](mailto:drkr13579@gmail.com)

🏠 Home Page (<http://www.vignanpharmacycollege.in>)



**SOURAVH BAIS ()**

474 VIP PARASPAR NAGAR

Email: [souravh2008.123@rediffmail.com](mailto:souravh2008.123@rediffmail.com)

🏠 Home Page (<https://sageuniversity.in/pharmadetail#faculty>)



**DR. D.S. JAYALAKSHMI ()**

Sathyabama Institute of Science and Technology (deemed to be University), Rajiv Gandhi Salai, OMR

Email: [jayaanand10@gmail.com](mailto:jayaanand10@gmail.com)

🏠 Home Page (<https://www.sathyabama.ac.in/>)



**DR. PARTHA NIYOGI ()**

SCHOOL OF PHARMACY THE NEOTIA UNIVERSITY SARISHA, DIAMOND HARBOUR WEST BENGAL- 743 368

Email: [partha.niyogi@tnu.in](mailto:partha.niyogi@tnu.in)

🏠 Home Page ([https://www.tnu.in/our\\_faculty/dr-partha-niyogi/](https://www.tnu.in/our_faculty/dr-partha-niyogi/))



**DR. RAJIV DUTTA ()**

Shobhit Institute of Engineering & Technology (Deemed-to-be-University) NH-58, Modipuram Meerut, UP-250110. India

Email: [director.sbt@gmail.com](mailto:director.sbt@gmail.com)

🏠 Home Page ([rdutta.50megs.com](http://rdutta.50megs.com))



**PRAVEEN KUMAR UPPALA ()**

LIG 163 Alakananda colony, Vizianagaram, Andhra Pradesh

Email: [praveen.chintu32@gmail.com](mailto:praveen.chintu32@gmail.com)

🏠 Home Page (<http://www.ipc.gov.in/>)



**RAMAKRISHNA REDDY H ()**

#32, Shiva shakti, 4th Cross, KBL Elite layout, J.P.Nagar 8th Phase, Bangalore-560108, Karnataka state, India.

Email: [rkreddy\\_h@yahoo.co.in](mailto:rkreddy_h@yahoo.co.in)

🏠 Home Page (<https://www.apotex.com/in/contact-us>)



**DR. PRAVIN KUMAR SHARMA ()**

Acropolis Institute of Pharmaceutical Education and Research, Indore

Email: praveensharma910@gmail.com

🏠 Home Page (<https://aiper.ac.in/>)



**DR. FORAT YASIR ALJABERI ()**

Chemical Engineering Department, College of Engineering, Al-Muthanna University, Samawa, Iraq

Email: furatyasir@mu.edu.iq

🏠 Home Page (<https://www.rjptonline.org/EditorialBoard.aspx>)



**DR. L. NANDHAKUMAR ()**

Kastooribha gandhi Pharmacy college Namakkal, Rasipuram

Email: drndkumar12@gmail.com

🏠 Home Page (<https://kgpc.edu.in/kgpc/index.php>)



**PROF. DR. RAJIV DUTTA ()**

SHOBHIT UNIVERSITY, GANGOH

Email: director.sbt@gmail.com

🏠 Home Page ([rdutta.50megs.com](http://rdutta.50megs.com))



**AHMED ALI MHAWESH ()**

Baghdad/Iraq Al-Ghadeer Quarter

Email: alshammariahmed.a.m@gmail.com

🏠 Home Page (<https://cv.nahrainuniv.edu.iq/ar/view/464>)



**DR JAGDISH KAKADIYA ()**

Department of Pharmacology, Parul Institute of Pharmacy and Research, Parul University, Vadodara, Gujarat, India

Email: jagdishkakadiya@gmail.com

🏠 Home Page (<https://paruluniversity.ac.in/faculty/faculty-of-pharmacy/faculty-members>)



**MAJIDA HAMEED KHAZAAL ()**

Kufa University

Email: majdahamed69@yahoo.com

🏠 Home Page (<http://staff.uokufa.edu.iq/profile.html?majidah.alkhazaali>)



**DR. SHOBHIT KUMAR ()**

Dr. Shobhit Kumar, Associate Professor, Department of Pharmaceutical Technology, Meerut Institute of Engineering and Technology (MIET), NH-58, Delhi-Roorkee Highway, Meerut-250005, Uttar Pradesh, India. Tel: +91 9675598375 E-mail: shobhitkmr87@gmail.com

shobhit.kumar@miet.ac.in

Email: shobhit.kumar@miet.ac.in

🏠 Home Page (<https://www.miet.ac.in/pharmacy>)



**DR. P. DWARAKANADHA REDDY ()**

Annamacharya College of Pharmacy, Rajampet-516126, Andhra Pradesh, India

Email: dwarakanadhareddyperam@gmail.com

🏠 Home Page (<https://scholar.google.co.in/citations?user=0ygmwkuAAAAJ&hl=en>)



**PROF. MATOLE VINOD KALIDAS ()**

Shivai Charitable trust's College of Pharmacy, Koregaonwadi Tal. Omerga Dist. Dharashiv Maharashtra India

Email: matole7414@gmail.com

🏠 Home Page (<https://prsu.ac.in/site/facultydetails?id=484>)



**SANKARGANESH ()**

3/478, Ajith nagar, Sathankuppam, Kelambakkam-603103, Chennai, TN

Email: bilisankar@gmail.com

🏠 Home Page (<https://hindustanuniv.ac.in/>)



**ALAA HUSSEIN AL-DARRAJI ()**

Iraq-Misan

Email: alaa.hussein@uomisan.edu.iq

🏠 Home Page (<https://www.researchgate.net/profile/Alaa-Al-Darraj/stats/report/weekly/2022-06-12>)



**MANISH KUMAR ()**

SD College, Barnala-148101, Punjab, India.

Email: manish@sdcollegeinstitutions.org

🏠 Home Page (<http://sdcollegeinstitutions.org/S.D.%20College/index.php>)



**DR. DINANATH TUKARAM GAIKWAD ()**

223, Shamrao Kumbhar Nagar, Nanapatil Nagar, Kolhapur, Maharashtra, India

Email: gdinanath@gmail.com

🏠 Home Page (<http://copkolhapur.bharativedyapeeth.edu/>)



**DR. AHMED HAMZA AL-SHAMMARI ()**

Iraq-Baghdad

Email: Ahmed.h.mezaal@alkutcollege.edu.iq

🏠 Home Page (<https://alkutcollege.edu.iq/ahmed-hamza/>)



**KRISHNA PRASAD NARAPEREDDY ()**

1447 W Minerloop road, South Jordon, UT - 84095

Email: krishna021@gmail.com

🏠 Home Page (<https://www.reckitt.com/>)



**MAJID MOHAMMED MAHMOOD ()**

majidm.mahmood93@uomustansiriyah.edu.iq

Email: majidmahmood93@yahoo.com

🏠 Home Page (<https://uomustansiriyah.edu.iq/e-learn/profile.php?id=687>)



**DR. SATHISH KUMAR KONIDALA ()**

Associate Professor, Department of Pharmaceutical Sciences, Vignans Foundation for Science Technology and Research (Deemed to be University), Vadlamudi, Guntur, A.P., India-522213.

Email: [ksk\\_pharma@vignan.ac.in](mailto:ksk_pharma@vignan.ac.in)

🏠 Home Page (<https://vignan.ac.in/pharmafaculty.php>)



**MOHAMED JABER ()**

University Road Aljurf P.O.Box 346

Email: [mohamed.jaber@ajman.ac.ae](mailto:mohamed.jaber@ajman.ac.ae)

🏠 Home Page ([www.ajman.ac.ae](http://www.ajman.ac.ae))



**SANKARGANESH ()**

3/478, Sathankuppam, Kelambakkam-603103, TN

Email: [bilisankar@gmail.com](mailto:bilisankar@gmail.com)

🏠 Home Page (<https://hindustanuniv.ac.in/assets/pdf/faculty/Food-Technology-faculty.pdf>)



**DR. SWAMY NATHAN G ()**

Department of Biotechnology, College of Science and Humanities, SRM Institute of Science and Technology, India.

Email: [swamynathangesan.in@gmail.com](mailto:swamynathangesan.in@gmail.com)

🏠 Home Page (<https://www.srmist.edu.in/department/department-of-biotechnology-science-and-humanities/>)



**DR ANIL KUMAR TALLAM ()**

1350 Woodbourne Road, Apt-E74, Levittown, Pennsylvania, USA, Zip Code 19057

Email: [anilkumartallam1@gmail.com](mailto:anilkumartallam1@gmail.com)

🏠 Home Page (<https://kvktech.com/>)



**BACHIR BEN SEGHIR ()**

Department of Process Engineering, Faculty of Technology, University of El Oued, BP 789, El-Oued 39000, Algeria

Email: [bbachir39@gmail.com](mailto:bbachir39@gmail.com)

🏠 Home Page (<https://profbachir.portfolial.com/#/>)



**SUBRAMANIYAN VETRISELVAN ()**

Assoc. Prof. Dr. Vetrivelvan Subramaniyan, Ph.D. Deputy Dean M.Sc. and Ph.D. (by Research)

Coordinator Faculty of Medicine, Bioscience and Nursing MAHSA University EC Member-Overseas, Indian Pharmacological Society (IPS)

Email: [vetricology@gmail.com](mailto:vetricology@gmail.com)

🏠 Home Page (<https://mahsa.edu.my/>)



**MAKSOOD ALI ()**

9 B, Near RK Public School, Aurangabad, District - Bulandshahr

Email: [drmal\\_i\\_pharmacy13@yahoo.com](mailto:drmal_i_pharmacy13@yahoo.com)

🏠 Home Page (<https://www.orleancollege.co.in/>)



**DR. V. V. SATHIBABU UDDANDRAO ()**

Dr. V. V. Sathibabu Uddand Rao, Assistant Professor, Department of Biochemistry, K.S. Rangasamy College of Arts and Science (Autonomous), Tiruchengode-637215, Tamilnadu, India

Email: [sathibabu.u@gmail.com](mailto:sathibabu.u@gmail.com)

🏠 Home Page (<https://www.ksrcas.edu/>)



**AYAN KUMAR KAR ()**

Rabindra Bhavan, D.C.Sankarara, Nimtala, Tamruk -721636, East Medinipur, W.B., India  
Email: ayancipt@gmail.com  
🏠 Home Page ([www.urschard.com](http://www.urschard.com))



**DR. MOUMITA HAZRA ()**

Associate Professor, Department of Pharmacology, Shri Balaji Institute of Medical Science,  
Raipur, Chhattisgarh, India  
Email: drmoumitahazra.198017thjune@gmail.com  
🏠 Home Page ([drmoumitahazra170680.blogspot.com](http://drmoumitahazra170680.blogspot.com))



**SHIVAM TAYAL ()**

Jhansi Road, Gwalior  
Email: shivamtayal.sop@itmuniversity.ac.in  
🏠 Home Page (<https://itmuniversity.ac.in/>)



**FATMA BASSYOUNI ()**

National Research Centre, Cairo, Egypt  
Email: fatma.nrc.eg@gmail.com  
🏠 Home Page (<https://www.nrc.sci.eg>)



**OJAS PRAKASHBHAI DOSHI ()**

Somerville, New Jersey, USA  
Email: doshiojas96@gmail.com  
🏠 Home Page (<https://cosettepharma.com/>)



**DR. TANAJI NANDGUDE ()**

Sant Tukaram Nagar, Pimpri, Pune, Maharashtra - 411018  
Email: tanaji.nandgude@dypvp.edu.in  
🏠 Home Page (<https://pharmacy.dypvp.edu.in/>)



**BEHZAD FOROUTAN ()**

Department of Pharmacology School of Medicine Shahrood University of Medical Sciences  
Shahrood, IRAN  
Email: behzad\_foroutan@hotmail.com  
🏠 Home Page ()



**DR. AMIT ROY ()**

Principal, Columbia Institute of Pharmacy, Raipur CG India  
Email: wakratund@gmail.com  
🏠 Home Page ()



**P. PARTHIBAN ()**

Centre for R&D, PRIST University, Thanjavur-613403, India  
Email: parthisivam@yahoo.co.in  
🏠 Home Page ()



**PROF. D. K. TRIPATHI ()**

Principal, Rungta Institute of Pharmaceutical Sci. and Research, Bhilai CG India

Email: editor.rjpt@gmail.com

[🏠 Home Page \(\)](#)



**DR. P. KUMARAVEL ()**

Assistant Professor, Department of Biotechnology, Vysya College, Masinaickenpatty, Salem-636103. Tamil Nadu, India.

Email: kumaravelbiotech@gmail.com

[🏠 Home Page \(\)](#)



**DR GIRISH PAI K ()**

Faculty - Dept of Pharmaceutics Manipal college of pharmaceutical sciences Manipal

University, Madhav Nagar Manipal - 576104, Karnataka State, India

Email: girish.pai@manipal.edu

[🏠 Home Page \(\)](#)



**DR. AJAY V. PATHAK ()**

House No.33 Ravindra nagar Nagpur-440022 Maharashtra, INDIA

Email: a.pathak4@gmail.com

[🏠 Home Page \(\)](#)



**AYUSH DOGRA ()**

department of electronics and communications, panjab university chandigarh

Email: ayush123456789@gmail.com

[🏠 Home Page \(\)](#)



**DR. PRATIBHA VYAS ()**

Department of Microbiology, College of Basic Sciences and Humanities, Punjab Agricultural University, Ludhiana-141004, Punjab, India.

Email: pratibha.19064@pu.co.in

[🏠 Home Page \(\)](#)



**IHSAN HABIB DAKHIL ()**

Engineering College, Al-Muthanna University, Iraq

Email: ihsanelshahiri@yahoo.com

[🏠 Home Page \(\)](#)



**DR. JAYASSHREE SEN ()**

J.N.M.C.&A.V.B.R.H., Sawangi, Wardha, Maharashtra 442007

Email: jayashree\_sen@rediffmail.com

[🏠 Home Page \(\)](#)

**IMAD ()**

University of Babylon

Email: imad\_dna@yahoo.com



🏠 Home Page ()



**RIM M. HARFOUCH ()**

Al Andalus university, Qadmus, Tartous, Syria

Email: rimharfouch@au.edu.sy

🏠 Home Page ()



**MOHAMMAD JAWAD AL-JASSANI ()**

Department of Microbiology, College of Science, Al-Karkh University of Science, Iraq.

Email: pcr2000@yahoo.com

🏠 Home Page ()

## REVIEWERS

---



**DR. SUBHASHIS DEBNATH ()**

Seven Hills College of Pharmacy Venkatramapuram, Tirupati- 517561

Email: subhashis.ooty@gmail.com

🏠 Home Page ()



**GAURAV KUMAR ()**

Department of Microbiology School of Bioengineering and Biosciences Lovely Professional University Phagwara, 144411, Punjab, India

Email: gau\_ravkr@yahoo.com

🏠 Home Page ()



**RUCHI VERMA ()**

manipal college of pharmaceutical sciences, manipal university, karnataka, India.

Email: ruchi.verma@manipal.edu

🏠 Home Page ()



**DR. KETAN VINODLAL SHAH ()**

201, Rudrax Appartment, Guruprasad Society, Nehind Telephone exchange, Krishnanagar Main road, Rajkot

Email: ketan421981@gmail.com

🏠 Home Page ()



**K SUJANA ()**

university college of pharmaceutical sciences Acharya Nagarjuna university

Email: sujana\_36@yahoo.co.in

🏠 Home Page ()



**DR.PBRINDHA DEVI ()**

Vels University, Velan Nagar, PV Vaithiyalingam Road, Pallavaram

Email: pbrindhadevi@gmail.com

🏠 Home Page ()



**DR VAMSHI KRISHNA TIPPAVAJHALA ()**

Assistant Professor-Senior Scale Department of Pharmaceutics Manipal College of  
Pharmaceutical Sciences Manipal University Manipal, Karnataka, India

Email: krissrcm@gmail.com

[🏠 Home Page \(\)](#)



**ZAIN BAAITY ()**

Syria, Latakia

Email: zein\_syria@hotmail.com

[🏠 Home Page \(\)](#)



**LAITH AHMED NAJAM ()**

Mosul University, College of Science, Physics Dept., Mosul

Email: Prof.lai2014@gmail.com

[🏠 Home Page \(\)](#)



**VEEREN DEWOOLKAR ()**

4824 Washtenaw Ave, Apt C1, Ann Arbor, MI 48108

Email: veerenrx@gmail.com

[🏠 Home Page \(\)](#)



**NEERAN OBIED JASIM ()**

University of AL-Qadisiyah college of Pharmacy Iraq

Email: neran.jasim@qu.edu.iq

[🏠 Home Page \(\)](#)



**MAHMOUD NAJIM ABID ()**

Mustansiriyah University, College of Science, Department of Chemistry

Email: mahmoudaljibouri@gmail.com

[🏠 Home Page \(\)](#)



**NILESH PATEL ()**

B/103,Snehkunj Elegance, Behind Shivalay Parisar Kudasan, Gandhinagar-382421, Gujarat

Email: nilesh33.emcure@gmail.com

[🏠 Home Page \(\)](#)



**NEERAN OBIED JASIM ()**

university of AL-Qadisiyah -college of science-Iraq

Email: neran.jasim@qu.edu.iq

[🏠 Home Page \(\)](#)



**MARWAN MAHMOOD SALEH ()**

Anbar-Ramadi- Habbaniya- 4-4-17

Email: ah.marwan\_bio@uoanbar.edu.iq

[🏠 Home Page \(\)](#)





**PALLAVI LAXMAN PHALKE ()**

Parul University, Limda, Waghodiya. Vadodara-391760, Gujarat India.

Email: falkepallavi@gmail.com

[🏠 Home Page \(\)](#)



**DR. ANUP S. HENDRE ()**

Biochemistry Department Krishna Institute of Medical Sciences, Malkapur Karad. Dist- Satara.

Email: anupviews@gmail.com

[🏠 Home Page \(\)](#)



**SURENDRA KUMAR GAUTAM ()**

Kamla Nehru Institute of Management & Technology, NH96 Faizabad Bypass Road Faridipur Campus

Email: surendra\_bkt95@yahoo.in

[🏠 Home Page \(\)](#)



**DR U R RAKSHITH ()**

Dr U R Rakshith Lecturer JSS College of Pharmacy, JSS Academy of Higher Education and Research Shivarathreeswara Nagar, Mysuru-570015 Karnataka , India

Email: urrakshith@jssuni.edu.in

[🏠 Home Page \(\)](#)



**RAMU SAMINENI ()**

H.NO-1-123-A; C/O SIVARAMAKRISHNA SAMINENI MANDEPUDI, AMARAVATHI

Email: samineni.ramu@gmail.com

[🏠 Home Page \(\)](#)



**DHAVAL PATEL ()**

A-104, Maruti Aamrakunj, Sargasan, Gandhinagar-382421

Email: dhalval.nine@gmail.com

[🏠 Home Page \(\)](#)



**AKHIL NAGAR ()**

R C PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Email: akkipharma23@gmail.com

[🏠 Home Page \(\)](#)



**SUNANDAR IHSAN ()**

Kampus Hijau Bumi Tridharma Universitas Halu Oleo Fakultas Farmasi, Jl. H.E.A

Mokodompit Anduonuhu, Kendari, Indonesia

Email: sunandarihsan@uho.ac.id

[🏠 Home Page \(\)](#)



**ANAS TARIK NAFEI ()**

Baghdad, Qadissiyah Express way

Email: anasalhamdany@yahoo.com

[🏠 Home Page \(\)](#)



**DR.KUMARASWAMY GULLAPELLI ()**

STREET NUMBER 4 , BHAVANI NAGAR , NACHARAM, HYDERABAD NACHARAM,  
Hyderabad, Telangana, pincode: 500076  
Email: kumargullapelli001@gmail.com  
[🏠 Home Page \(\)](#)



**RADHWAN AL-ZIDAN ()**

Almothana district, Mosul, Iraq  
Email: radhwan.alzidan@uomosul.edu.iq  
[🏠 Home Page \(\)](#)



**YAHIA M. MOUALLA ()**

faculty of pharmacy, Tishreen university, Latakia, Syria  
Email: yahia.moualla@tishreen.edu.sy  
[🏠 Home Page \(\)](#)



**SUHAS SURESH AWATI ()**

Assistant Professor, Dr. Shivajirao Kadam College of Pharmacy, Kasabe Digraj, Baganvat, Tal-  
Miraj, Dist- Sangli, Maharashtra. 416301  
Email: awatiss@gmail.com  
[🏠 Home Page \(\)](#)



**SHAIK FIROZ ()**

Assistant Professor, Department of Pharmaceutics, Sree Vidyanikethan College of Pharmacy,  
Sree Sainath Nagar, A.Rangampet-517102.  
Email: firoz.kallur@gmail.com  
[🏠 Home Page \(\)](#)



**DR NASEEF PP ()**

Vice Principal, Moulana College of Pharmacy, Near Angadippuram Railway Station,  
Malappuram, Kerala, India 679321  
Email: drnaseefpp@gmail.com  
[🏠 Home Page \(\)](#)



**DR. ARINDAM CHATTERJEE ()**

School of Pharmaceutical Sciences Jaipur National University (SADTM Campus) Near RTO  
Office, Jaipur Agra Bypass Jagatpura, Jaipur, Rajasthan India-302017  
Email: chatterjee.arindam@hotmail.com  
[🏠 Home Page \(\)](#)



**S RAJARAJAN ()**

Department of Pharmaceutics, Karnataka College of Pharmacy 33/2, Thirumena Halli,  
Hegde Nagar Main Road, Bangalore-560064  
Email: pharmking@gmail.com  
[🏠 Home Page \(\)](#)

**DR . RAHUL RADHAKRISHNAN ()**



Manasam, Edavattom, Chirakkara (PO), Kollam, Kerala  
Email: drrahulpharmd@gmail.com  
🏠 Home Page ()



RIM M. HARFOUCH ()  
0624 Albaath street, Latakia, Syria  
Email: rimharf@yahoo.com  
🏠 Home Page ()



ARUN A ()  
3/31 periyar street, ramapuram chennai 600089  
Email: arunarticle2016@gmail.com  
🏠 Home Page ()



ABDUL SALEEM MOHAMMAD ()  
Department of Pharmaceutical Analysis and Quality Assurance, Nizam Institute of  
Pharmacy, Deshmukhi (V), Pochampally (M), Behind Mount Opera, Nalgonda (Dist)-508284,  
Telangana, India.  
Email: mohdsaleempharma@gmail.com  
🏠 Home Page ()



KARTHIKEYAN T ()  
registrar nimhans  
Email: karthik\_77in@yahoo.co.in  
🏠 Home Page ()



DR. PUTTA RAJESH KUMAR ()  
Amdapur X Road, Yenkapally, Moinabad, Ranga Reddy, Hyderabad, Telangana 500075 INDIA  
Email: prkbpc@gmail.com  
🏠 Home Page ()



AAMINAH NAJMUS SAHAR ()  
H.no: 121, Pension lane, New Bowenpally Secunderabad- 500011  
Email: aaminahnajmus@yahoo.in  
🏠 Home Page ()



ZAINAB HAITHAM FATHI ()  
College of Pharmacy, University of Mosul  
Email: zainabh@uomosul.edu.iq  
🏠 Home Page ()



DR. OM PRAKASH RANJAN ()  
Faculty of Pharmacy, Sachchidanad Sinha College, Aurangabad, Bihar.  
Email: omprakasranjan@gmail.com  
🏠 Home Page ()

SHASHIKANT SUDARSHAN UPADHYE ()



**Annasaheb Dange College of B.Pharmacy, Ashta Tal: Walwa, Dist: Sangli 416301, Maharashtra, India**  
Email: [ssupadhye7@gmail.com](mailto:ssupadhye7@gmail.com)  
[Home Page \(\)](#)



**VISHAL KUMAR BISWKARMA ()**  
KSCP, Subharti University, Meerut, Uttar Pradesh, India  
Email: [vishalkumarbiswarkarma@gmail.com](mailto:vishalkumarbiswarkarma@gmail.com)  
[Home Page \(\)](#)



**DR. C. JANANI ()**  
Dr. C. Janani, Srimad Andavan Arts and Science College, Nelson Road, TV Kovil, Trichy-05  
Email: [janabio.net@gmail.com](mailto:janabio.net@gmail.com)  
[Home Page \(\)](#)



**RANJAN KUMAR SINGH ()**  
g d memorial college of pharmacy, kbhb, jodhpur.342005  
Email: [rxsingh8@gmail.com](mailto:rxsingh8@gmail.com)  
[Home Page \(\)](#)



**BIMESH KUMAR ()**  
BLOCK 4, ROOM NO 203, SCHOOL OF PHARMACEUTICAL SCIENCES, LOVELY PROFESSIONAL UNIVERSITY, PHAGWARA, PUNJAB, 144411.  
Email: [bimlesh1pham@gmail.com](mailto:bimlesh1pham@gmail.com)  
[Home Page \(\)](#)



**DR. BISWARANJAN RAY ()**  
Associate prof, Dept. of Pharmacology, College of Pharmaceutical Sciences, Puri, Odisha  
Email: [crabiswa@gmail.com](mailto:crabiswa@gmail.com)  
[Home Page \(\)](#)



**ANAR J PATEL ()**  
Sal Institute of Pharmacy, Ahmedabad  
Email: [anar.patel@sal.edu.in](mailto:anar.patel@sal.edu.in)  
[Home Page \(\)](#)



**GANESH BARKADE ()**  
Dr. Vithalrao Vikhe Patil Foundation's College of Pharmacy, Ahmednagar, MH, India-414111  
Vikhe Patil Foundation  
Email: [ganeshbarkade7@gmail.com](mailto:ganeshbarkade7@gmail.com)  
[Home Page \(\)](#)



**DR. VEDAMURTHY JOSHI ()**  
Associate professor, Sri Adichunchanagiri College of Pharmacy, BG Nagara Nagamangala Tq Mandya dist Karnataka  
Email: [vedamurthyjoshi@gmail.com](mailto:vedamurthyjoshi@gmail.com)  
[Home Page \(\)](#)



**AVINASH BABURAO THALKARI ()**

Kanadi Road Kaij Vasant Pharmacy College Kaij Kanadi Road Kaij  
Email: avinashthalkari@gmail.com

[🏠 Home Page \(\)](#)



**DR. P. PRAVEEN REDDY ()**

Vivekananda Degree and PG College, Karimnagar-505001, Telangana  
Email: microprr@gmail.com

[🏠 Home Page \(\)](#)



**MUTHUKUMAR.S ()**

45,U.K.Thevar Street, Sulur, Coimbatore-641402  
Email: pharmmuthu@gmail.com

[🏠 Home Page \(\)](#)



**D CHANDRA SEKHAR NAIK ()**

KVSR Siddhartha college of pharmaceutical sciences poly clinical road Vijayawada-10  
Email: chandu.desavath@gmail.com

[🏠 Home Page \(\)](#)



**BHARAT MISHRA ()**

Nirmala college of pharmacy, Nirmala Hills,Muvattupuzha, Ernakulam, Kerala, India  
Email: bharatekansh@gmail.com

[🏠 Home Page \(\)](#)



**MATOLE VINOD KALIDAS ()**

AT POST AURAD TAL.OMERGA DIST .OSMANABAD  
Email: vinodmatole57@gmail.com

[🏠 Home Page \(\)](#)



**NIRMAL THAKKER ()**

B-602, Tirupati Aakruti Greenz, Behind Nirma University, S.G. Highway, Ahmedabad-382481, Gujarat, India  
Email: nirmalthakker117@yahoo.com

[🏠 Home Page \(\)](#)



**JASWANTH GOWDA B.H. ()**

Yenepoya (Deemed to be University), Deralakatte, Mangalore, India-575018.  
Email: jaswanth\_14601@yenepoya.edu.in

[🏠 Home Page \(\)](#)



**ZEINA ABDULMUNIM ALTHANOON ()**

Albaladiyat Quarter Mosul Iraq  
Email: ph.zeinaalthanoon@gmail.com

[🏠 Home Page \(\)](#)



**SHIVAVEERAKUMAR ()**

Department of Microbiology, Davangere University, Davanagere - 577002, Karnataka  
Email: shiv\_math1984@rediffmail.com

[🏠 Home Page \(\)](#)



**DR.V.K.EVANJELENE ()**

16, Anbu Nagar, gorimedu, Salem - 636 008  
Email: evankutty@gmail.com

[🏠 Home Page \(\)](#)



**ASHISH TALE ()**

MUPS College of Pharmacy, Degaon, Tq. Risod, Dist. Washim-444506 (M.S) India  
Email: ashishtale93@gmail.com

[🏠 Home Page \(\)](#)



**DR. C. JANANI ()**

Srimad Andavan Arts and Science College, Nelson Road, TV Kovil TV kovil  
Email: janabio.net@gmail.com

[🏠 Home Page \(\)](#)



**PRATHEEP THANGARAJ ()**

Department of Biotechnology, PRIST Deemed to be University, Thanjavur-613403, India.  
Email: pratheep@gmail.com

[🏠 Home Page \(\)](#)



**SHAIMAA AHMAD HASSAN ()**

AlKarkh University of science / Baghdad / Iraq  
Email: dr.shaimaa\_altaee@kus.edu.iq

[🏠 Home Page \(\)](#)



**DR ANUP NAHA ()**

Manipal College of Pharmaceutical Sciences, MAHE, Manipal, Karnataka-576104  
Email: anupnaha@gmail.com

[🏠 Home Page \(\)](#)



**EIMAN SHAHROUR ()**

lattakia- syria  
Email: eimanm.shahrour@gmail.com

[🏠 Home Page \(\)](#)



**DR. DEVAKUMAR DINESH ()**

Department of Zoology, Bharathiar University Coimbatore-641046 Tamilnadu India  
Email: devadinesh4041@gmail.com

[🏠 Home Page \(\)](#)



**AUDUMBAR DIGAMBAR MALI ()**

At. Po. Andhalgaon, Tal-mangalwedha, Dist- Solapur, Pin Code:- 413305, Maharashtra, India.  
Email: maliaudu442@gmail.com

[🏠 Home Page \(\)](#)



**DR. MITTAL MAHESHWARI ()**

A- One Pharmacy College, Ahmedabad  
Email: mittalmaheshwary@gmail.com

[🏠 Home Page \(\)](#)



**ABDUL AZEEM ()**

Research Scholar, Electrical Engineering Department Jamia Millia Islamia-New Delhi  
Email: azeemnith@gmail.com

[🏠 Home Page \(\)](#)



**DR. V. VADIVEL ()**

PG & Research Department of Botany, V.O. Chidambaram College, Tuticorin - 628008 Tamil Nadu, India  
Email: drvvadivel@gmail.com

[🏠 Home Page \(\)](#)



**PROF.(DR.) KUMARASWAMY.GANDLA ()**

Dr.Kumara Swamy.Gandla Associate Editor of RJPT (Research journal of Pharmacy and Technology Chaitanya Deemed to be University, Hanamkonda, Warangal-Urban (Dist), Telangana 506001-India. Mobile: +91-9000973789 / +91-7801022789  
Email: drkumaraswamygandla@gmail.com

[🏠 Home Page \(\)](#)



**MR. PATIL AMOL MANIK ()**

AT/P- KASEGAON TAL- WALWA DIST- SANGLI PIN CODE- 415404 MAHARASHTRA  
Email: amp6389@gmail.com

[🏠 Home Page \(\)](#)



**MOH MIRZA NURYADY ()**

Blok HC No. 14, Jl. Intan 2, Perum GPA, Ngijo, Kec. Karangploso, Kabupaten Malang, East Java

Email: mirzanuryady@umm.ac.id

[🏠 Home Page \(\)](#)



**SHAIMAA AHMAD HASSAN ()**

College of Remote Sensing & Geophysics, Al Karkh University of Science, Baghdad, Iraq  
Email: dr.shaimaa\_altaee@kus.edu.iq

[🏠 Home Page \(\)](#)



**MAUSAMI VAGHELA ()**

New College Wadi-3, B/H Punjab Honda, Opp. sitvan Flat, Kalawad Road, Rajkot.  
Email: mausami\_2123@yahoo.com

[🏠 Home Page \(\)](#)



**KOTESHWARA MUDIGONDA ()**

Suven Life Sciences Limited, Hyderabad, India  
Email: koteshwara\_mudigonda@yahoo.com  
🏠 Home Page ()



**DR. SWAMY C T ()**

51, Anna Arch Rd,NSK Nagar, Anna Nagar, AA Hospital Campus  
Email: swamyc23@gmail.com  
🏠 Home Page ()



**KHUDHAIR ABBAS KAREEM AL-RUDAI ()**

Iraq, Baghdad  
Email: khudhair.2010@yahoo.com  
🏠 Home Page ()



**BALJEET YADAV ()**

1202 H, Coralwood Sector 84, Gurugram INDIA  
Email: baljeet.yadav@gdgu.org  
🏠 Home Page ()



**DR NILIMA ABHIJEET THOMBRE ()**

MET's Institute Of Pharmacy, Bhujbal Knowledge City, Adgaon, Nasik-422003, Maharashtra,India. nilimat\_iop@bkc.met.edu 09422284082 , 09960646693  
Email: nilimat\_iop@bkc.met.edu  
🏠 Home Page ()



**SNIGDHO DAS ()**

Flat No.6,Ira Appartments-2,Jadunath Ukil Road, Kudghat  
Email: snigdho1991@gmail.com  
🏠 Home Page ()



**DR SUDARSAN BISWAL ()**

O/o the Asst. Drugs Controller, Bhubaneswar Cirle II, Bhubaneswar, Khordha, Odisha, India  
Email: drsbiswaldi@gmail.com  
🏠 Home Page ()



**NAZIYA IQBAL KHAN ()**

38 Sahyadri nagar Isbavi Pandharpur 413307 Solapur Maharashtra  
Email: naziya.aara@gmail.com  
🏠 Home Page (<https://sahyadripharmacy.org/wp-content/uploads/2021/08/teaching-staff-converted.pdf>)



**DR GYANENDRA KUMAR SHARMA ()**

Anand College of Pharmacy, Agra  
Email: gyanendrasharma.acp@sgei.org  
🏠 Home Page (<https://acp.edu.in/teacher/prof-dr-gyanendra-kumar-sharma/>)





**MISS.MALI SUNAYANA MALLAPPA ()**

A/P-Andhalgaon, Pin No. -413 305 Tal- Mangalwedha, Dist-Solapur, Maharashtra, India  
Email: sunayanamali01@gmail.com  
🏠 Home Page ([sunayanamali01@gmail.com](mailto:sunayanamali01@gmail.com))



**DR. ARUNACHALAM MUTHURAMAN ()**

Dr. Arunachalam Muthuraman, M. Pharm., Ph.D. Associate Professor, Pharmacology Unit, Faculty of Pharmacy, AIMST University, Semeling, 08100 Bedong, Kedah Darul Aman, Malaysia. E-mail: arunachalammu@gmail.com Phone No: +60-1136293386 (Malaysia); +91-9988040886 (India) Malaysia Office: +60-44298000 (Extn: 1281 / 1284);  
Email: arunachalammu@gmail.com  
🏠 Home Page ([https://www.aimst.edu.my/staff/\\_dr-arunachalam-muthuraman-2/](https://www.aimst.edu.my/staff/_dr-arunachalam-muthuraman-2/))



**MUKUL SHARMA ()**

Faculty of Pharmacy, Medi-Caps University, Indore  
Email: mukul.sharma@medicaps.ac.in  
🏠 Home Page (<https://www.medicaps.ac.in/index.php?action=sf-staffdetails&staffid=1228>)



**PROF. DR. NAGHAM MAHMOOD ALJAM ()**

Professor , Department of Chemistry , Synthetic Field, Iraq.  
Email: dr.nagham\_mj@yahoo.com  
🏠 Home Page ([https://scholar.google.com/citations?user=0wqLjt8AAAAJ&hl=ar&gmla=AJsN-F5GvOOKKyaAsEKcwgNKZCgs8Q95yiQZLQSWLS0iEE5AtfDpE\\_LPbiC790EmRTK5DMcQdmVvSD-LcE1L5ws605G92\\_DOcdFrRGY6-00AQZc-irTzoCkvxK5m\\_3U1LDawTxfjKEJCI5SgviEuax2cWd414ttnqmt493TuZe2lldUgNaFOk&sciund=8034552379251919217&gmla=AJsN-F6AvIWRrBUMr5xB-N2NQLVhVVMH2UYNPUPUwo6XitdvodTgP2H-NfP061db5-BOPRPrupq3unxysAvMnAX\\_DBbYNUfhH5AwSObsyOKdwUC9IDkFjaW89CJtnjL95BplpOPxJoTWsYyxLJ6iNntKWKIC91rFjldNQmcpJsg24l&sciund=4058147899730636809](https://scholar.google.com/citations?user=0wqLjt8AAAAJ&hl=ar&gmla=AJsN-F5GvOOKKyaAsEKcwgNKZCgs8Q95yiQZLQSWLS0iEE5AtfDpE_LPbiC790EmRTK5DMcQdmVvSD-LcE1L5ws605G92_DOcdFrRGY6-00AQZc-irTzoCkvxK5m_3U1LDawTxfjKEJCI5SgviEuax2cWd414ttnqmt493TuZe2lldUgNaFOk&sciund=8034552379251919217&gmla=AJsN-F6AvIWRrBUMr5xB-N2NQLVhVVMH2UYNPUPUwo6XitdvodTgP2H-NfP061db5-BOPRPrupq3unxysAvMnAX_DBbYNUfhH5AwSObsyOKdwUC9IDkFjaW89CJtnjL95BplpOPxJoTWsYyxLJ6iNntKWKIC91rFjldNQmcpJsg24l&sciund=4058147899730636809))



**PRASHANT PANDEY ()**

Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University, Lucknow  
Email: mrpandeyprashant@gmail.com  
🏠 Home Page (<https://www.bbau.ac.in/>)



**PATHAN HUJEB AFSAR KHAN ()**

Shreeyash Institute of Pharmaceutical Education and Research Aurangabad, Maharashtra, India.  
Email: pathanhujeb@gmail.com  
🏠 Home Page (<https://www.syppharmacy.org/>)



**DR. SHIKHA MAHESHWARI ()**

Pushpanjali Enclave Pitampura Delhi  
Email: shikhamaheshwarimohta@gmail.com  
🏠 Home Page (<https://staff.cuchd.in/StaffHome.aspx>)



**DR V N MEENA DEVI ()**

Noorul Islam Centre for Higher Education Kumaracoil, Kanyakumari Dist. Tamilnadu 629180 India.

Email: meenadevi@niuniv.com  
🏠 Home Page (<http://www.niuniv.com/>)



**PRASHANT PANDEY ()**  
Department of Pharmaceutical Sciences, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow, Uttar Pradesh, India  
Email: drpandeyprashant@outlook.com  
🏠 Home Page (<https://www.bbau.ac.in/index.aspx>)



**MR. TUSHAR PRADIP DUKRE ()**  
At- Malwadi; Post- Bota.  
Email: tusharpd23@gmail.com  
🏠 Home Page ([www.shrissiop.in](http://www.shrissiop.in))



**DR. DATTATRAYA MANOHAR SHINKA ()**  
Rajiv Nagar Nashik Vaibhav Colony  
Email: dattashinkar@gmail.com  
🏠 Home Page (<https://msgpharma.org/>)



**PROF. SACHIN NAMDEO KOTHAWADE ()**  
Sitabai Thite College of Pharmacy, Pune-Nagar Bypass, Behind Hudco Colony, Shirur, Tal - Shirur, Dist - Pune, Pin - 412210  
Email: sachin.kothawade23@gmail.com  
🏠 Home Page (<https://stcopshirur.com/faculties/>)



**DR. SIVARAMAN DHANASEKARAN ()**  
Pandit Deendayal Energy University, Gandhinagar, Gujarat  
Email: sivaramand83@gmail.com  
🏠 Home Page (<https://pdpu.ac.in/>)



**ALI MAHMOOD RAYSHAN ()**  
Iraq, Karbala, City Center  
Email: alireshan@g.alzahu.edu.iq  
🏠 Home Page (<https://alzahu.edu.iq/en>)



**DUKRE TUSHAR PRADIP ()**  
At- Satral, Post- Songaon, Tal- Rahuri, District-Ahmednagar, 413711  
Email: tusharpd23@gmail.com  
🏠 Home Page ([www.shrissiop.in](http://www.shrissiop.in))



**DR. SK. ARIFA BEGUM ()**  
Dr. Sk. Arifa Begum, Assistant Professor, KVSR Siddhartha College of Pharmaceutical Sciences, Siddhartha Nagar, Vijayawada - 520 010, Andhra Pradesh, India.  
Email: arifashaik2007@gmail.com  
🏠 Home Page (<https://kvsrsiddharthapharma.edu.in/>)

**RUPALI NIRMAL ()**



**Sahajanandnagar**  
Email: rupalinirmalcpn@gmail.com  
🏠 Home Page (<https://sanjivanipharm.org.in/>)



**RISHU YADAV ()**  
352/1 n.l.c. Kidwai Nagar Kanpur  
Email: rishu.yadav789@gmail.com  
🏠 Home Page (<https://mau.ac.in/school-of-pharmacy.php>)



**DR. YASMIN HAMID MOMIN ()**  
Annasaheb Dange College of B.Pharmacy, Ashta 416301  
Email: mullays413@gmail.com  
🏠 Home Page (<https://www.adcbp.in/b-pharm-staff>)



**PRAVEEN KUMAR UPPALA ()**  
LIG 163, Alakananda Colony, Vizianagaram, Andhra Pradesh  
Email: praveen.chintu32@gmail.com  
🏠 Home Page (<http://www.ipc.gov.in/>)



**DR. EKA INDRA SETYAWAN ()**  
Department of Pharmacy Udayana University  
Email: ekaindrasetyawan@unud.ac.id  
🏠 Home Page (<https://farmasi.unud.ac.id/>)



**DR. MOHAN GANDHI BONTHU ()**  
V. V. Institute of Pharmaceutical Sciences, Gudlavalleru, Krishna District 521356.  
Email: bmgandhipharma@gmail.com  
🏠 Home Page (<https://vviipsgudlavalleru.ac.in/>)



**SWATI GOKUL TALELE ()**  
Sandip Institute of Pharmaceutical Sciences, Nashik  
Email: swatitalele77@gmail.com  
🏠 Home Page (<https://sips.sandipfoundation.org/faculties/>)



**NARESH KSHIRASAGAR ()**  
35-4-341 Near SR digi school bheemaram Hanamkonda  
Email: nareshvcop@gmail.com  
🏠 Home Page (<http://www.vaagdeviips.org/pharmaceutics/>)



**DR. PRAVIN KUMAR SHARMA ()**  
Acropolis Institute of Pharmaceutical Education and Research, Indore (M.P.)  
Email: praveensharma910@gmail.com  
🏠 Home Page (<https://aiper.ac.in/bottom-sidebar/it/it-faculty-member/>)

**HANA BAJES ()**  
NJ-USA  
Email: bajes80@gmail.com



🏠 Home Page (<https://www.atlantic.edu/directory/faculty/bajes-hana.php>)



**DR. J. SIVAKUMAR ()**

Assistant Professor, PG Department of Zoology, Guru Nanak College (Autonomous),  
Velachery, Chennai - 600 042, Tamil Nadu, India  
Email: [sivakumar.j@gurunanakcollege.edu.in](mailto:sivakumar.j@gurunanakcollege.edu.in)

🏠 Home Page (<https://gurunanakcollege.edu.in/school-of-science>)



**DR.V.N.INDULATHA ()**

8/50RC Nagar extension, Othakkalmandapam, Coimbatore, Tamilnadu, India  
Email: [profindulatha@gmail.com](mailto:profindulatha@gmail.com)

🏠 Home Page (<https://nchs.nirmalacollege.edu.in>)



**RISHIKESH BACHHAV ()**

Anjaneri, Trymbakeshwar  
Email: [bachhavrss@rediffmail.com](mailto:bachhavrss@rediffmail.com)

🏠 Home Page (<https://www.sapkalpharmacy.org>)



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Author(s): Mustafa H. Al-Musawi, Kadhim M. Ibrahim, Salim Albukhaty

DOI: 10.52711/0974-360X.2022.00479 (<https://www.doi.org/10.52711/0974-360X.2022.00479>)

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## New RP-HPLC Method for the Estimation of Atazanavir sulphate in Pharmaceutical Dosage form (AbstractView.aspx?PID=2022-15-7-10)

Author(s): Soundarya K, Hemant Kumar T, Manjunath SY

DOI: 10.52711/0974-360X.2022.00488 (<https://www.doi.org/10.52711/0974-360X.2022.00488>)

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## Method Development and Transforming of Liquid SMEDDS into Solid SMEDDS for Antihypertensive Drug (AbstractView.aspx?PID=2022-15-7-11)

Author(s): Rajesh L. Dumpala, Akruiti Khodakiya, Nishant A Oza, Nehal J. Shah, M. Lakshmi Prasuna

DOI: 10.52711/0974-360X.2022.00489 (<https://www.doi.org/10.52711/0974-360X.2022.00489>)

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## In-Vitro Antioxidant, Anti-Inflammatory and Cytotoxic effects of different Solvent Extraction Terminalia chebula, Terminalia billerica, Phyllanthus emblica (AbstractView.aspx?PID=2022-15-7-12)

Author(s): Sanakousar K. Patel, Arun K Shutter, Ria Patil, Archana Desangi, Vishalakshi Malali, Jyoti Patil, Sumangala Patil, Kusal K. Das, Prachi P. Parvatikar

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Author(s): Kakhramanova S. D., Rodin M. N., Bokov D. O., Strelyaev N. D., Marakhova A. I., Perederyaev O. I., Balobanova N. P., Bondar A. A., Krasnyuk I. I., Friesen N. V., Luferov A. N.

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Views: 0 (pdf), 922 (html)

Access:  Closed Access

Cite: Kakhramanova S. D., Rodin M. N., Bokov D. O., Strelyaev N. D., Marakhova A. I., Perederyaev O. I., Balobanova N. P., Bondar A. A., Krasnyuk I. I., Friesen N. V., Luferov A. N. Spring snowflake (*Leucojum vernum* L.) and summer snowflake (*L. aestivum* L.): Chemical composition and uses in medicine. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2945-0. doi: 10.52711/0974-360X.2022.00491 (<https://www.doi.org/10.52711/0974-360X.2022.00491>)

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(AbstractView.aspx?  
PID=2022-15-  
7-13)

## In vitro Antioxidant activity, FTIR analysis and Total Phenolic content of Endophytic Fungus *Penicillium* sp. isolated from *Boerhaavia diffusa* L. (AbstractView.aspx?PID=2022-15-7-14)

Author(s): Saranya Shankar, Uma Anitha K.P.G, Mythili Sathiavelu

DOI: 10.52711/0974-360X.2022.00492 (<https://www.doi.org/10.52711/0974-360X.2022.00492>)

Views: 0 (pdf), 768 (html)

Access:  Closed Access

Cite: Saranya Shankar, Uma Anitha K.P.G, Mythili Sathiavelu. In vitro Antioxidant activity, FTIR analysis and Total Phenolic content of Endophytic Fungus *Penicillium* sp. isolated from *Boerhaavia diffusa* L. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2951-6. doi: 10.52711/0974-360X.2022.00492 (<https://www.doi.org/10.52711/0974-360X.2022.00492>)

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(AbstractView.aspx?  
PID=2022-15-  
7-14)

## Molecular characterization of Virulence genes Shiga-like, Heat-labile Toxins and Antibiotics resistance in multidrug-resistant *Escherichia coli* (AbstractView.aspx?PID=2022-15-7-15)

Author(s): Amr A. El-Waseif, Gehad S. Awad, Sabah A. Abo El maaty, Mervat G. Hassan

DOI: 10.52711/0974-360X.2022.00493 (<https://www.doi.org/10.52711/0974-360X.2022.00493>)

Views: 0 (pdf), 828 (html)

Access:  Closed Access

Cite: Amr A. El-Waseif, Gehad S. Awad, Sabah A. Abo El maaty, Mervat G. Hassan. Molecular characterization of Virulence genes Shiga-like, Heat-labile Toxins and Antibiotics resistance in multidrug-resistant *Escherichia coli*. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2957-1. doi: 10.52711/0974-360X.2022.00493 (<https://www.doi.org/10.52711/0974-360X.2022.00493>)

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(AbstractView.aspx?  
PID=2022-15-  
7-15)

## Preparation and Evaluation of Antioxidant Loaded Candy using Microwave Prepared Capsicum powder with Optimization of Time and Temperature (AbstractView.aspx?PID=2022-15-7-16)

Author(s): Madhumita Saha, Dibya Das, Sushmita Saha, Pinaki Saha, Sudipta Saha, Runu Chakraborty

DOI: 10.52711/0974-360X.2022.00494 (<https://www.doi.org/10.52711/0974-360X.2022.00494>)

Views: 0 (pdf), 802 (html)

Access:  Closed Access

Cite: Madhumita Saha, Dibya Das, Sushmita Saha, Pinaki Saha, Sudipta Saha, Runu Chakraborty. Preparation and Evaluation of Antioxidant Loaded Candy using Microwave Prepared Capsicum powder with Optimization of Time and Temperature. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2962-8. doi: 10.52711/0974-360X.2022.00494 (<https://www.doi.org/10.52711/0974-360X.2022.00494>)

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(AbstractView.aspx?

PID=2022-15-

7-16)

## High Performance Liquid Chromatography Method Validation and Forced degradation Studies of Pterostilbene (AbstractView.aspx?PID=2022-15-7-17)

Author(s): Kanchan Nikam, Sachin Bhusari, Pravin Wakte

DOI: 10.52711/0974-360X.2022.00495 (<https://www.doi.org/10.52711/0974-360X.2022.00495>)

Views: 0 (pdf), 822 (html)

Access:  Closed Access

Cite: Kanchan Nikam, Sachin Bhusari, Pravin Wakte. High Performance Liquid Chromatography Method Validation and Forced degradation Studies of Pterostilbene. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2969-5. doi: 10.52711/0974-360X.2022.00495 (<https://www.doi.org/10.52711/0974-360X.2022.00495>)

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(AbstractView.aspx?

PID=2022-15-

7-17)

## Application of Calcium Hydroxide with Vehicles Relate to the pH Change, Calcium Ion Diffusion, Roughness, and Frequency of Chemical Compound in Root Canal (AbstractView.aspx?PID=2022-15-7-18)

Author(s): Dwi Yani Sastika, Trimurni Abidin, Harry Agusnar, Basri A. Gani

DOI: 10.52711/0974-360X.2022.00496 (<https://www.doi.org/10.52711/0974-360X.2022.00496>)

Views: 0 (pdf), 917 (html)

Access:  Closed Access

Cite: Dwi Yani Sastika, Trimurni Abidin, Harry Agusnar, Basri A. Gani. Application of Calcium Hydroxide with Vehicles Relate to the pH Change, Calcium Ion Diffusion, Roughness, and Frequency of Chemical Compound in Root Canal. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2976-2. doi: 10.52711/0974-360X.2022.00496 (<https://www.doi.org/10.52711/0974-360X.2022.00496>)

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(AbstractView.aspx?

PID=2022-15-

7-18)



## Multi-drug Resistant bacterial causes of Meningitis in different age groups (AbstractView.aspx?PID=2022-15-7-19)

Author(s): Mahmoud. I. S, Altaif. K. I, Hailat I. A, Al-Jewari W. M, Wayyes A

DOI: 10.52711/0974-360X.2022.00497 (<https://www.doi.org/10.52711/0974-360X.2022.00497>)

Views: 0 (pdf), 756 (html)

Access:  Closed Access

Cite: Mahmoud. I. S, Altaif. K. I, Hailat I. A, Al-Jewari W. M, Wayyes A. Multi-drug Resistant bacterial causes of Meningitis in different age groups. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2983-6. doi: 10.52711/0974-360X.2022.00497 (<https://www.doi.org/10.52711/0974-360X.2022.00497>)

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(AbstractView.aspx?  
PID=2022-15-  
7-19)

## Antilarval and in vitro Anticancer efficacy of Cladode extracts of *Opuntia dillenii* (Ker Gawl.) Haw., *Cereus pterogonus* Lem. and *Acanthocereus tetragonus* (L.) Hummelinck (AbstractView.aspx?PID=2022-15-7-2)

Author(s): A. Mohamed Niyaz, S. Ravikumar

DOI: 10.52711/0974-360X.2022.00480 (<https://www.doi.org/10.52711/0974-360X.2022.00480>)

Views: 0 (pdf), 789 (html)

Access:  Closed Access

Cite: A. Mohamed Niyaz, S. Ravikumar. Antilarval and in vitro Anticancer efficacy of Cladode extracts of *Opuntia dillenii* (Ker Gawl.) Haw., *Cereus pterogonus* Lem. and *Acanthocereus tetragonus* (L.) Hummelinck. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2877-2. doi: 10.52711/0974-360X.2022.00480 (<https://www.doi.org/10.52711/0974-360X.2022.00480>)

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(AbstractView.aspx?  
PID=2022-15-  
7-2)

## Adenosine Deaminase Detection in Serum of Pulmonary Tuberculosis and Extra Pulmonary Tuberculosis patients at Dr. Ramelan Hospital Surabaya (AbstractView.aspx?PID=2022-15-7-20)

Author(s): Retno Budiarti, Ediono, Ni Made Mertaniasih, Soedarsono

DOI: 10.52711/0974-360X.2022.00498 (<https://www.doi.org/10.52711/0974-360X.2022.00498>)

Views: 0 (pdf), 803 (html)

Access:  Closed Access

Cite: Retno Budiarti, Ediono, Ni Made Mertaniasih, Soedarsono. Adenosine Deaminase Detection in Serum of Pulmonary Tuberculosis and Extra Pulmonary Tuberculosis patients at Dr. Ramelan Hospital Surabaya. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2987-1. doi: 10.52711/0974-360X.2022.00498 (<https://www.doi.org/10.52711/0974-360X.2022.00498>)

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(AbstractView.aspx?  
PID=2022-15-  
7-20)

## Development and Validation of Analytical Method for Estimation of Balofloxacin in Bulk and Pharmaceutical Dosage Form by RP-HPLC (AbstractView.aspx?PID=2022-15-7-21)

Author(s): Ramu Samineni, Jithendra Chimakurthy, Sathish Kumar Konidala, Venkateswarao Yamarthy

DOI: 10.52711/0974-360X.2022.00499 (<https://www.doi.org/10.52711/0974-360X.2022.00499>)

Views: 0 (pdf), 850 (html)

Access:  Closed Access

Cite: Ramu Samineni, Jithendra Chimakurthy, Sathish Kumar Konidala, Venkateswarao Yamarthy. Development and Validation of Analytical Method for Estimation of Balofloxacin in Bulk and Pharmaceutical Dosage Form by RP-HPLC. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2992-6. doi: 10.52711/0974-360X.2022.00499 (<https://www.doi.org/10.52711/0974-360X.2022.00499>)

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(AbstractView.aspx?

PID=2022-15-

7-21)

## Simultaneous Estimation of Terbutaline sulphate, Ambroxol hydrochloride, and Guaifenesin in Combined Dosage Form by HPTLC Method (AbstractView.aspx?PID=2022-15-7-22)

Author(s): Rani Potawale, Shankar Wadje, Mrunal Bulbule, Vaishali Shirsat

DOI: 10.52711/0974-360X.2022.00500 (<https://www.doi.org/10.52711/0974-360X.2022.00500>)

Views: 0 (pdf), 1165 (html)

Access:  Closed Access

Cite: Rani Potawale, Shankar Wadje, Mrunal Bulbule, Vaishali Shirsat. Simultaneous Estimation of Terbutaline sulphate, Ambroxol hydrochloride, and Guaifenesin in Combined Dosage Form by HPTLC Method. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2997-1. doi: 10.52711/0974-360X.2022.00500 (<https://www.doi.org/10.52711/0974-360X.2022.00500>)

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(AbstractView.aspx?

PID=2022-15-

7-22)

## Study of Lime Peel Flavonoid as effectively Antibacterial against Methicillin-Resistant Staphylococcus aureus (AbstractView.aspx?PID=2022-15-7-23)

Author(s): Evy Ratnasari Ekawati, Windarmanto, Sri Puji Astuti Wahyuningsih

DOI: 10.52711/0974-360X.2022.00501 (<https://www.doi.org/10.52711/0974-360X.2022.00501>)

Views: 0 (pdf), 637 (html)

Access:  Closed Access

Cite: Evy Ratnasari Ekawati, Windarmanto, Sri Puji Astuti Wahyuningsih. Study of Lime Peel Flavonoid as effectively Antibacterial against Methicillin-Resistant Staphylococcus aureus. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3002-8. doi: 10.52711/0974-360X.2022.00501 (<https://www.doi.org/10.52711/0974-360X.2022.00501>)

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(AbstractView.aspx?

PID=2022-15-

7-23)

## A Study of Hyperglycaemic activity by Fructose induced diabetes on Wistar rat model by using Zn-Aspirin Coordination Metal Complex (AbstractView.aspx?PID=2022-15-7-24)

Author(s): Dimak Chand Sahu, Girendra Kumar Gautam, Durga Prasad Panda, Mohd. Akhtar Rasool

DOI: 10.52711/0974-360X.2022.00502 (<https://www.doi.org/10.52711/0974-360X.2022.00502>)

Views: 0 (pdf), 590 (html)

Access:  Closed Access

Cite: Dimak Chand Sahu, Girendra Kumar Gautam, Durga Prasad Panda, Mohd. Akhtar Rasool. A Study of Hyperglycaemic activity by Fructose induced diabetes on Wistar rat model by using Zn-Aspirin Coordination Metal Complex. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3009-4. doi: 10.52711/0974-360X.2022.00502 (<https://www.doi.org/10.52711/0974-360X.2022.00502>)

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(AbstractView.aspx?

PID=2022-15-

7-24)

## Preparation and Evaluation of Novel Antidiabetic Polyherbal Formulation (AbstractView.aspx?PID=2022-15-7-25)

Author(s): Santosh Kumar Mahapatra, Seema Verma

DOI: 10.52711/0974-360X.2022.00503 (<https://www.doi.org/10.52711/0974-360X.2022.00503>)

Views: 0 (pdf), 846 (html)

Access:  Closed Access

Cite: Santosh Kumar Mahapatra, Seema Verma. Preparation and Evaluation of Novel Antidiabetic Polyherbal Formulation. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3015-9. doi: 10.52711/0974-360X.2022.00503 (<https://www.doi.org/10.52711/0974-360X.2022.00503>)

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(AbstractView.aspx?

PID=2022-15-

7-25)

## Physical Characterization of Nanoemulgel containing Ethanol Extract of Curcuma mangga Val. using Carbopol 940 as Gelling agent (AbstractView.aspx?PID=2022-15-7-26)

Author(s): Bayu Eko Prasetyo, Lia Laila, T. Ismanelly Hanum

DOI: 10.52711/0974-360X.2022.00504 (<https://www.doi.org/10.52711/0974-360X.2022.00504>)

Views: 0 (pdf), 914 (html)

Access:  Closed Access

Cite: Bayu Eko Prasetyo, Lia Laila, T. Ismanelly Hanum. Physical Characterization of Nanoemulgel containing Ethanol Extract of Curcuma mangga Val. using Carbopol 940 as Gelling agent. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3020-4. doi: 10.52711/0974-360X.2022.00504 (<https://www.doi.org/10.52711/0974-360X.2022.00504>)

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(AbstractView.aspx?

PID=2022-15-

7-26)

## Role of A1 Adenosinergic System in Multiple Sclerosis and Possible Therapeutic Strategy (AbstractView.aspx?PID=2022-15-7-27)

Author(s): Antony Justin, Meghana Basavaraj, Deepthi Murugan, Gaddam Narasimha Rao, Jeyaram Bharathi J

DOI: 10.52711/0974-360X.2022.00505 (<https://www.doi.org/10.52711/0974-360X.2022.00505>)

Views: 0 (pdf), 651 (html)

Access:  Closed Access

Cite: Antony Justin, Meghana Basavaraj, Deepthi Murugan, Gaddam Narasimha Rao, Jeyaram Bharathi J. Role of A1 Adenosinergic System in Multiple Sclerosis and Possible Therapeutic Strategy. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3025-8. doi: 10.52711/0974-360X.2022.00505 (<https://www.doi.org/10.52711/0974-360X.2022.00505>)

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(AbstractView.aspx?

PID=2022-15-

7-27)

## Impact of Sarvangasana and Uttanpadasana on Hemodynamic parameters (AbstractView.aspx?PID=2022-15-7-28)

Author(s): Sumera Salomi, Pentakota Kiranmayi, Vasundhara Pentakota, Payala Vijayalakshmi

DOI: 10.52711/0974-360X.2022.00506 (<https://www.doi.org/10.52711/0974-360X.2022.00506>)

Views: 0 (pdf), 1019 (html)

Access:  Closed Access

Cite: Sumera Salomi, Pentakota Kiranmayi, Vasundhara Pentakota, Payala Vijayalakshmi. Impact of Sarvangasana and Uttanpadasana on Hemodynamic parameters. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3029-3. doi: 10.52711/0974-360X.2022.00506 (<https://www.doi.org/10.52711/0974-360X.2022.00506>)

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(AbstractView.aspx?

PID=2022-15-

7-28)

## Characterization and Testing the properties of PEKK- Strontium-hydroxyapatite composite material (AbstractView.aspx?PID=2022-15-7-29)

Author(s): Ghasak H Jani, Abdalbseet A Fatalla

DOI: 10.52711/0974-360X.2022.00507 (<https://www.doi.org/10.52711/0974-360X.2022.00507>)

Views: 0 (pdf), 731 (html)

Access:  Closed Access

Cite: Ghasak H Jani, Abdalbseet A Fatalla. Characterization and Testing the properties of PEKK- Strontium-hydroxyapatite composite material. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3034-0. doi: 10.52711/0974-360X.2022.00507 (<https://www.doi.org/10.52711/0974-360X.2022.00507>)

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(AbstractView.aspx?

PID=2022-15-

7-29)

## Polymeric Nanoparticles methods of preparation and Drug Release Models: Effectiveness towards Drug Delivery Systems (AbstractView.aspx?PID=2022-15-7-3)

Author(s): Gul-e-Saba Chaudhry, Abdah Akim, Yeong Yik Sung, Tengku Sifzizul Tengku Muhammad

DOI: 10.52711/0974-360X.2022.00481 (<https://www.doi.org/10.52711/0974-360X.2022.00481>)

Views: 0 (pdf), 846 (html)

Access:  Closed Access

Cite: Gul-e-Saba Chaudhry, Abdah Akim, Yeong Yik Sung, Tengku Sifzizul Tengku Muhammad. Polymeric Nanoparticles methods of preparation and Drug Release Models: Effectiveness towards Drug Delivery Systems. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2883-7. doi: 10.52711/0974-360X.2022.00481 (<https://www.doi.org/10.52711/0974-360X.2022.00481>)

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(AbstractView.aspx?

PID=2022-15-7-3)

## Rifampicin versus Doxycycline in Prevention of recurrent Boils (A Comparative Therapeutic Study) (AbstractView.aspx?PID=2022-15-7-30)

Author(s): Rzan A. Al-Battat, Basman Medhat Fadheel, Shatha Al-Bayati

DOI: 10.52711/0974-360X.2022.00508 (<https://www.doi.org/10.52711/0974-360X.2022.00508>)

Views: 0 (pdf), 886 (html)

Access:  Closed Access

Cite: Rzan A. Al-Battat, Basman Medhat Fadheel, Shatha Al-Bayati. Rifampicin versus Doxycycline in Prevention of recurrent Boils (A Comparative Therapeutic Study). *Research Journal of Pharmacy and Technology*. 2022; 15(7):3041-6. doi: 10.52711/0974-360X.2022.00508 (<https://www.doi.org/10.52711/0974-360X.2022.00508>)

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(AbstractView.aspx?

PID=2022-15-7-30)

## Analysis of Component and Antibacterial Activity of Ethanol Extract and Etyl Acetate Fraction of Pagoda (Clerodendrum paniculatum L.) Leaves against Pseudomonas aeruginosa and MRSA (AbstractView.aspx?PID=2022-15-7-31)

Author(s): Dewi Pertiwi, Panal Sitorus, Ihsanul Hafiz, Denny Satria

DOI: 10.52711/0974-360X.2022.00509 (<https://www.doi.org/10.52711/0974-360X.2022.00509>)

Views: 0 (pdf), 896 (html)

Access:  Closed Access

Cite: Dewi Pertiwi, Panal Sitorus, Ihsanul Hafiz, Denny Satria. Analysis of Component and Antibacterial Activity of Ethanol Extract and Etyl Acetate Fraction of Pagoda (Clerodendrum paniculatum L.) Leaves against Pseudomonas aeruginosa and MRSA. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3047-0. doi: 10.52711/0974-360X.2022.00509 (<https://www.doi.org/10.52711/0974-360X.2022.00509>)

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(AbstractView.aspx?

PID=2022-15-7-31)

## Development and validation of an analytical method for the simultaneous estimation of Etoricoxib and Thiocolchicoside in tablet dosage form by UV Spectrophotometric method (AbstractView.aspx?PID=2022-15-7-32)

**Author(s):** Nisha kumari, Amit Chaudhary, Kapil Kumar Verma, Kritika Verma, Geetanjali Saini, Manish Vyas, Bhupendra Singh

**DOI:** 10.52711/0974-360X.2022.00510 (<https://www.doi.org/10.52711/0974-360X.2022.00510>)

**Views:** 0 (pdf), 1060 (html)

**Access:**  Closed Access

**Cite:** Nisha kumari, Amit Chaudhary, Kapil Kumar Verma, Kritika Verma, Geetanjali Saini, Manish Vyas, Bhupendra Singh. Development and validation of an analytical method for the simultaneous estimation of Etoricoxib and Thiocolchicoside in tablet dosage form by UV Spectrophotometric method. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3051-6. doi: 10.52711/0974-360X.2022.00510 (<https://www.doi.org/10.52711/0974-360X.2022.00510>)

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(AbstractView.aspx?  
PID=2022-15-  
7-32)

## Press coated Bioadhesive Pulsatile Tablet of Lisinopril for Chronotherapy of Cardiac Disorders: in-vitro Evaluation (AbstractView.aspx?PID=2022-15-7-33)

**Author(s):** Sachin Patil, Ashwini Rakshe, Rajesh Jagtap, Sneha Jagtap

**DOI:** 10.52711/0974-360X.2022.00511 (<https://www.doi.org/10.52711/0974-360X.2022.00511>)

**Views:** 0 (pdf), 695 (html)

**Access:**  Closed Access

**Cite:** Sachin Patil, Ashwini Rakshe, Rajesh Jagtap, Sneha Jagtap. Press coated Bioadhesive Pulsatile Tablet of Lisinopril for Chronotherapy of Cardiac Disorders: in-vitro Evaluation. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3057-2. doi: 10.52711/0974-360X.2022.00511 (<https://www.doi.org/10.52711/0974-360X.2022.00511>)

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(AbstractView.aspx?  
PID=2022-15-  
7-33)

## Chemical properties of Fermented Sapindaceae vinegar Antioxidant Activity and Sensory Evaluation (AbstractView.aspx?PID=2022-15-7-34)

**Author(s):** Wilawan Boonsupa, Kannikar Thongdonpriang, Janjira Pimthong, Thidaporn Wongchantha, Chonticha Maphon, Wanchanok Miyakorn, Supattra Chinakool

**DOI:** 10.52711/0974-360X.2022.00512 (<https://www.doi.org/10.52711/0974-360X.2022.00512>)

**Views:** 0 (pdf), 682 (html)

**Access:**  Closed Access

**Cite:** Wilawan Boonsupa, Kannikar Thongdonpriang, Janjira Pimthong, Thidaporn Wongchantha, Chonticha Maphon, Wanchanok Miyakorn, Supattra Chinakool. Chemical properties of Fermented Sapindaceae vinegar Antioxidant Activity and Sensory Evaluation. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3063-8. doi: 10.52711/0974-360X.2022.00512 (<https://www.doi.org/10.52711/0974-360X.2022.00512>)

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(AbstractView.aspx?  
PID=2022-15-  
7-34)

## Molecular Docking Studies of Interaction Curcumin against Beta-secretase 1, Amyloid A4 Protein, Gamma-secretase and Glycogen Synthase Kinase-3 $\beta$ as Target Therapy for Alzheimer Disease (AbstractView.aspx?PID=2022-15-7-35)

Author(s): Mokhamad Fahmi Rizki Syaban, Rislan Faiz Muhammad, Basyar Adnani, Gumilar Fardhani Ami Putra, Nabila Erina Erwan, Safira Dita Arviana, Agung Dwi Krisnayana, Dedy Budi Kurniawan

DOI: 10.52711/0974-360X.2022.00513 (<https://www.doi.org/10.52711/0974-360X.2022.00513>)

Views: 0 (pdf), 700 (html)

Access:  Closed Access

Cite: Mokhamad Fahmi Rizki Syaban, Rislan Faiz Muhammad, Basyar Adnani, Gumilar Fardhani Ami Putra, Nabila Erina Erwan, Safira Dita Arviana, Agung Dwi Krisnayana, Dedy Budi Kurniawan. Molecular Docking Studies of Interaction Curcumin against Beta-secretase 1, Amyloid A4 Protein, Gamma-secretase and Glycogen Synthase Kinase-3 $\beta$  as Target Therapy for Alzheimer Disease. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3069-4. doi: 10.52711/0974-360X.2022.00513 (<https://www.doi.org/10.52711/0974-360X.2022.00513>)

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(AbstractView.aspx?  
PID=2022-15-  
7-35)

## Formulation and Characterization of Tenofovir Disproxyl Fumerate Nanoparticles prepared by Nanoprecipitation Method (AbstractView.aspx?PID=2022-15-7-36)

Author(s): S. Sivaprasad, Ch. Sadakvali, V. Ravi Kumar, P.V. Murali Krishna, Shaik Mohammed Yusuf, A. Srikanth

DOI: 10.52711/0974-360X.2022.00514 (<https://www.doi.org/10.52711/0974-360X.2022.00514>)

Views: 0 (pdf), 688 (html)

Access:  Closed Access

Cite: S. Sivaprasad, Ch. Sadakvali, V. Ravi Kumar, P.V. Murali Krishna, Shaik Mohammed Yusuf, A. Srikanth. Formulation and Characterization of Tenofovir Disproxyl Fumerate Nanoparticles prepared by Nanoprecipitation Method. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3075-0. doi: 10.52711/0974-360X.2022.00514 (<https://www.doi.org/10.52711/0974-360X.2022.00514>)

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(AbstractView.aspx?  
PID=2022-15-  
7-36)

## Antibacterial activity of Chito-oligosaccharides derived from Fish Scales (AbstractView.aspx?PID=2022-15-7-37)

Author(s): Gul-e-Saba Chaudhry, Thirukanthan CS, Nor Atikah Mohamed Zin, Yeong Yik Sung, Tengku Sifzizul Tengku Muhammad, Effendy AWM

DOI: 10.52711/0974-360X.2022.00515 (<https://www.doi.org/10.52711/0974-360X.2022.00515>)

Views: 0 (pdf), 769 (html)

Access:  Closed Access

Cite: Gul-e-Saba Chaudhry, Thirukanthan CS, Nor Atikah Mohamed Zin, Yeong Yik Sung, Tengku Sifzizul Tengku Muhammad, Effendy AWM. Antibacterial activity of Chito-oligosaccharides derived from Fish Scales. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3081-5. doi: 10.52711/0974-360X.2022.00515 (<https://www.doi.org/10.52711/0974-360X.2022.00515>)

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(AbstractView.aspx?  
PID=2022-15-  
7-37)

## Relation between Vit. D3 and other Metabolic Risk Factors in patients with Cholestatic Liver Disease (AbstractView.aspx?PID=2022-15-7-38)

Author(s): *Israa Burhan Raof, Mayssaa E. Abdalah, Raghad Abdulmahdi Mohsin*

DOI: 10.52711/0974-360X.2022.00516 (<https://www.doi.org/10.52711/0974-360X.2022.00516>)

Views: 0 (pdf), 816 (html)

Access:  Closed Access

Cite: *Israa Burhan Raof, Mayssaa E. Abdalah, Raghad Abdulmahdi Mohsin. Relation between Vit. D3 and other Metabolic Risk Factors in patients with Cholestatic Liver Disease. Research Journal of Pharmacy and Technology. 2022; 15(7):3086-0. doi: 10.52711/0974-360X.2022.00516 (<https://www.doi.org/10.52711/0974-360X.2022.00516>)*

Read More »

(AbstractView.aspx?  
PID=2022-15-  
7-38)

## Synthesis, characterization and antimicrobial study of novel substituted Curcumin Derivatives (AbstractView.aspx?PID=2022-15-7-39)

Author(s): *Goyal Rupendra, Jain Suman, Agarwal D D*

DOI: 10.52711/0974-360X.2022.00517 (<https://www.doi.org/10.52711/0974-360X.2022.00517>)

Views: 0 (pdf), 709 (html)

Access:  Closed Access

Cite: *Goyal Rupendra, Jain Suman, Agarwal D D. Synthesis, characterization and antimicrobial study of novel substituted Curcumin Derivatives. Research Journal of Pharmacy and Technology. 2022; 15(7):3091-5. doi: 10.52711/0974-360X.2022.00517 (<https://www.doi.org/10.52711/0974-360X.2022.00517>)*

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(AbstractView.aspx?  
PID=2022-15-  
7-39)

## An Insight of Proanthocyanidin and Polyamidoamine-Calcium Phosphate Nanoparticles as Biomaterial Candidate for Dentin regeneration in Dental Pulp Capping: A Narrative Review (AbstractView.aspx?PID=2022-15-7-4)

Author(s): *Alexander Patera Nugraha, Nastiti Faradilla Ramadhani, Deny Saputra, Rifqah Ananda Mappanarang, Alqomariyah Eka Purnamasari, Amelia Aisyiah Anwar, Rini Devijanti Ridwan, Viol Dhea Kharisma, Albertus Putera Nugraha, Tengku Natasha Eleena Tengku Ahmad Noor, Nawira, Ira Widjiastuti, Tamara Yuanita*

DOI: 10.52711/0974-360X.2022.00482 (<https://www.doi.org/10.52711/0974-360X.2022.00482>)

Views: 0 (pdf), 1007 (html)

Access:  Closed Access

Cite: *Alexander Patera Nugraha, Nastiti Faradilla Ramadhani, Deny Saputra, Rifqah Ananda Mappanarang, Alqomariyah Eka Purnamasari, Amelia Aisyiah Anwar, Rini Devijanti Ridwan, Viol Dhea Kharisma, Albertus Putera Nugraha, Tengku Natasha Eleena Tengku Ahmad Noor, Nawira, Ira Widjiastuti, Tamara Yuanita. An Insight of Proanthocyanidin and Polyamidoamine-Calcium Phosphate Nanoparticles as Biomaterial Candidate for Dentin regeneration in Dental Pulp Capping: A Narrative Review. Research Journal of Pharmacy and Technology. 2022; 15(7):2888-4. doi: 10.52711/0974-360X.2022.00482 (<https://www.doi.org/10.52711/0974-360X.2022.00482>)*

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(AbstractView.aspx?  
PID=2022-15-  
7-4)



## The Influence of 1% Curcumin on Laminin -5 $\gamma$ 2 In Periodontitis Condition (AbstractView.aspx?PID=2022-15-7-40)

Author(s): Agung Krismariono, Yunita Purwaningsih

DOI: 10.52711/0974-360X.2022.00518 (<https://www.doi.org/10.52711/0974-360X.2022.00518>)

Views: 0 (pdf), 755 (html)

Access:  Closed Access

Cite: Agung Krismariono, Yunita Purwaningsih. The Influence of 1% Curcumin on Laminin -5 $\gamma$ 2 In Periodontitis Condition. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3096-0. doi: 10.52711/0974-360X.2022.00518 (<https://www.doi.org/10.52711/0974-360X.2022.00518>)

Read More »

(AbstractView.aspx?  
PID=2022-15-  
7-40)

## The use of Microvit A in the Form of a Synthetic supplement for Metabolic Processes and Localization of Protein Substances (AbstractView.aspx?PID=2022-15-7-41)

Author(s): A.V. Valoshin, A.V. Glazkov

DOI: 10.52711/0974-360X.2022.00519 (<https://www.doi.org/10.52711/0974-360X.2022.00519>)

Views: 0 (pdf), 630 (html)

Access:  Closed Access

Cite: A.V. Valoshin, A.V. Glazkov. The use of Microvit A in the Form of a Synthetic supplement for Metabolic Processes and Localization of Protein Substances. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3101-8. doi: 10.52711/0974-360X.2022.00519 (<https://www.doi.org/10.52711/0974-360X.2022.00519>)

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(AbstractView.aspx?  
PID=2022-15-  
7-41)

## Using Egg-cartons as simulated models for teaching tooth brushing to Preschool Children - A randomized control trial (AbstractView.aspx?PID=2022-15-7-42)

Author(s): Ankita Arora, Lee Yen Hui, Lee Chew Sze, Teoh Yee Sing, Htoo Htoo Kyaw Soe

DOI: 10.52711/0974-360X.2022.00520 (<https://www.doi.org/10.52711/0974-360X.2022.00520>)

Views: 0 (pdf), 786 (html)

Access:  Closed Access

Cite: Ankita Arora, Lee Yen Hui, Lee Chew Sze, Teoh Yee Sing, Htoo Htoo Kyaw Soe. Using Egg-cartons as simulated models for teaching tooth brushing to Preschool Children - A randomized control trial. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3109-3. doi: 10.52711/0974-360X.2022.00520 (<https://www.doi.org/10.52711/0974-360X.2022.00520>)

Read More »

(AbstractView.aspx?  
PID=2022-15-  
7-42)

## Development and validation of RP-HPLC method for estimation of Cefotaxime sodium in bulk and formulation (AbstractView.aspx?PID=2022-15-7-43)

Author(s): *Esra Tariq Anwer, Omji Porwal, Rupesh Dudhe*

DOI: 10.52711/0974-360X.2022.00521 (<https://www.doi.org/10.52711/0974-360X.2022.00521>)

Views: 0 (pdf), 871 (html)

Access:  Closed Access

Cite: *Esra Tariq Anwer, Omji Porwal, Rupesh Dudhe. Development and validation of RP-HPLC method for estimation of Cefotaxime sodium in bulk and formulation. Research Journal of Pharmacy and Technology. 2022; 15(7):3114-8. doi: 10.52711/0974-360X.2022.00521 (<https://www.doi.org/10.52711/0974-360X.2022.00521>)*

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(AbstractView.aspx?

PID=2022-15-

7-43)

## Immunological and Enzymatic study of Staphylococcus aureus Bacteria and fungi isolated from oral cavity (AbstractView.aspx?PID=2022-15-7-44)

Author(s): *Maysoon Khaleefa Abbas, Fatima Rammadan Abdul, Khetam H. Rasool*

DOI: 10.52711/0974-360X.2022.00522 (<https://www.doi.org/10.52711/0974-360X.2022.00522>)

Views: 0 (pdf), 791 (html)

Access:  Closed Access

Cite: *Maysoon Khaleefa Abbas, Fatima Rammadan Abdul, Khetam H. Rasool. Immunological and Enzymatic study of Staphylococcus aureus Bacteria and fungi isolated from oral cavity. Research Journal of Pharmacy and Technology. 2022; 15(7):3119-4. doi: 10.52711/0974-360X.2022.00522 (<https://www.doi.org/10.52711/0974-360X.2022.00522>)*

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(AbstractView.aspx?

PID=2022-15-

7-44)

## The levels of Physical Activity, Mental Health, and Sedentary Behaviour of Health Science students in UTAR during COVID-19 pandemic (AbstractView.aspx?PID=2022-15-7-45)

Author(s): *Kiruthika Selvakumar, Tan Jyy Wei, Premala Krishnan*

DOI: 10.52711/0974-360X.2022.00523 (<https://www.doi.org/10.52711/0974-360X.2022.00523>)

Views: 0 (pdf), 601 (html)

Access:  Closed Access

Cite: *Kiruthika Selvakumar, Tan Jyy Wei, Premala Krishnan. The levels of Physical Activity, Mental Health, and Sedentary Behaviour of Health Science students in UTAR during COVID-19 pandemic. Research Journal of Pharmacy and Technology. 2022; 15(7):3125-6. doi: 10.52711/0974-360X.2022.00523 (<https://www.doi.org/10.52711/0974-360X.2022.00523>)*

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(AbstractView.aspx?

PID=2022-15-

7-45)

## GC/MS Analysis of the Peels of *Annona muricata* L. (AbstractView.aspx?PID=2022-15-7-46)

Author(s): Widad M.K. Al-ani, Sarah S. Almahdawy

DOI: 10.52711/0974-360X.2022.00524 (<https://www.doi.org/10.52711/0974-360X.2022.00524>)

Views: 0 (pdf), 729 (html)

Access:  Closed Access

Cite: Widad M.K. Al-ani, Sarah S. Almahdawy. GC/MS Analysis of the Peels of *Annona muricata* L. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3137-0. doi: 10.52711/0974-360X.2022.00524 (<https://www.doi.org/10.52711/0974-360X.2022.00524>)

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(AbstractView.aspx?  
PID=2022-15-  
7-46)

## Novel RP-UPLC Method Development and Validation for Simultaneous Quantification of Emtricitabine, Tenofovir and Efavirenz in Bulk and Tablet Dosage Forms (AbstractView.aspx?PID=2022-15-7-47)

Author(s): Sathish Kumar Konidala, Ramu Samineni, Yamarthi Venkateswara Rao, Jithendra Chimakurthy, Chaitanya Sucharitha Kolakaluri, Vishali Korrapati

DOI: 10.52711/0974-360X.2022.00525 (<https://www.doi.org/10.52711/0974-360X.2022.00525>)

Views: 0 (pdf), 607 (html)

Access:  Closed Access

Cite: Sathish Kumar Konidala, Ramu Samineni, Yamarthi Venkateswara Rao, Jithendra Chimakurthy, Chaitanya Sucharitha Kolakaluri, Vishali Korrapati. Novel RP-UPLC Method Development and Validation for Simultaneous Quantification of Emtricitabine, Tenofovir and Efavirenz in Bulk and Tablet Dosage Forms. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3141-6. doi: 10.52711/0974-360X.2022.00525 (<https://www.doi.org/10.52711/0974-360X.2022.00525>)

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(AbstractView.aspx?  
PID=2022-15-  
7-47)

## Green synthesis and Characterization of Zinc Nanoparticles using Herbal plant Extracts with their Influence on some Bacterial Infection (AbstractView.aspx?PID=2022-15-7-48)

Author(s): Sumod Abdul Kadhem Salman, Malaa M. Taki, Suhad J. Hadi, Adnan Mansour. Jasim

DOI: 10.52711/0974-360X.2022.00526 (<https://www.doi.org/10.52711/0974-360X.2022.00526>)

Views: 0 (pdf), 980 (html)

Access:  Closed Access

Cite: Sumod Abdul Kadhem Salman, Malaa M. Taki, Suhad J. Hadi, Adnan Mansour. Jasim. Green synthesis and Characterization of Zinc Nanoparticles using Herbal plant Extracts with their Influence on some Bacterial Infection. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3147-2. doi: 10.52711/0974-360X.2022.00526 (<https://www.doi.org/10.52711/0974-360X.2022.00526>)

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(AbstractView.aspx?  
PID=2022-15-  
7-48)

## Biologically active substances in the aboveground part of three *Stellaria* species (AbstractView.aspx?PID=2022-15-7-49)

Author(s): Natalya Garnova, Alla Filippova, Mikhail Kasatkin, Yuliya Tikhonova

DOI: 10.52711/0974-360X.2022.00527 (<https://www.doi.org/10.52711/0974-360X.2022.00527>)

Views: 0 (pdf), 845 (html)

Access:  Closed Access

Cite: Natalya Garnova, Alla Filippova, Mikhail Kasatkin, Yuliya Tikhonova. Biologically active substances in the aboveground part of three *Stellaria* species. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3153-8. doi: 10.52711/0974-360X.2022.00527 (<https://www.doi.org/10.52711/0974-360X.2022.00527>)

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(AbstractView.aspx?  
PID=2022-15-  
7-49)

## Design, Synthesis and Antitubercular Study of Novel Pyrazoline Moiety as Mycobacterium Tuberculosis shikimate kinase inhibitor (AbstractView.aspx?PID=2022-15-7-5)

Author(s): Deepika. P, D. Uma Maheshwari, M. Kumar, B. S. Venkateswarlu, Vimal. K. R

DOI: 10.52711/0974-360X.2022.00483 (<https://www.doi.org/10.52711/0974-360X.2022.00483>)

Views: 0 (pdf), 733 (html)

Access:  Closed Access

Cite: Deepika. P, D. Uma Maheshwari, M. Kumar, B. S. Venkateswarlu, Vimal. K. R. Design, Synthesis and Antitubercular Study of Novel Pyrazoline Moiety as Mycobacterium Tuberculosis shikimate kinase inhibitor. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2895-7. doi: 10.52711/0974-360X.2022.00483 (<https://www.doi.org/10.52711/0974-360X.2022.00483>)

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(AbstractView.aspx?  
PID=2022-15-  
7-5)

## Correlation Study of Alcoholic Clove extract against *Streptococcus agalactiae* virulence factors isolated from Neonatal patients (AbstractView.aspx?PID=2022-15-7-50)

Author(s): Adnan Ali Hammad, Ayman A. Farrag, Tarek M. Abdelghany, Amr A. El-Waseif, Saleem Obaid Gattia Almawla

DOI: 10.52711/0974-360X.2022.00528 (<https://www.doi.org/10.52711/0974-360X.2022.00528>)

Views: 0 (pdf), 778 (html)

Access:  Closed Access

Cite: Adnan Ali Hammad, Ayman A. Farrag, Tarek M. Abdelghany, Amr A. El-Waseif, Saleem Obaid Gattia Almawla. Correlation Study of Alcoholic Clove extract against *Streptococcus agalactiae* virulence factors isolated from Neonatal patients. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3159-4. doi: 10.52711/0974-360X.2022.00528 (<https://www.doi.org/10.52711/0974-360X.2022.00528>)

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(AbstractView.aspx?  
PID=2022-15-  
7-50)

## Class 1,2 Integron Genes Distribution in Pseudomonas aeruginosa Isolated from Clinical Specimens. (AbstractView.aspx?PID=2022-15-7-51)

Author(s): Haider Qassim Raheem, Ehasn F. Hussein, Ahmed Hameed Rasheed

DOI: 10.52711/0974-360X.2022.00529 (<https://www.doi.org/10.52711/0974-360X.2022.00529>)

Views: 0 (pdf), 751 (html)

Access:  Closed Access

Cite: Haider Qassim Raheem, Ehasn F. Hussein, Ahmed Hameed Rasheed. Class 1,2 Integron Genes Distribution in Pseudomonas aeruginosa Isolated from Clinical Specimens. Research Journal of Pharmacy and Technology. 2022; 15(7):3165-8. doi: 10.52711/0974-360X.2022.00529 (<https://www.doi.org/10.52711/0974-360X.2022.00529>)

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(AbstractView.aspx?  
PID=2022-15-  
7-51)

## Bioactivity against Staphylococcus aureus of New Nanoparticles Derived from Iron Oxide and Beta vulgaris Extracts and Synthesis Characterization (AbstractView.aspx?PID=2022-15-7-52)

Author(s): Manal Khalid Mohammad, Sundus Hameed Ahmed, Rana Fadhil Abbas

DOI: 10.52711/0974-360X.2022.00530 (<https://www.doi.org/10.52711/0974-360X.2022.00530>)

Views: 0 (pdf), 749 (html)

Access:  Closed Access

Cite: Manal Khalid Mohammad, Sundus Hameed Ahmed, Rana Fadhil Abbas. Bioactivity against Staphylococcus aureus of New Nanoparticles Derived from Iron Oxide and Beta vulgaris Extracts and Synthesis Characterization. Research Journal of Pharmacy and Technology. 2022; 15(7):3169-2. doi: 10.52711/0974-360X.2022.00530 (<https://www.doi.org/10.52711/0974-360X.2022.00530>)

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(AbstractView.aspx?  
PID=2022-15-  
7-52)

## Development of a Stability-indicating RP-UPLC Method for determination of Fidarestat in Bulk Drug (AbstractView.aspx?PID=2022-15-7-53)

Author(s): Twinkle Sakariya, Monika Bhaloddiya, Anamik Shah

DOI: 10.52711/0974-360X.2022.00531 (<https://www.doi.org/10.52711/0974-360X.2022.00531>)

Views: 0 (pdf), 625 (html)

Access:  Closed Access

Cite: Twinkle Sakariya, Monika Bhaloddiya, Anamik Shah. Development of a Stability-indicating RP-UPLC Method for determination of Fidarestat in Bulk Drug. Research Journal of Pharmacy and Technology. 2022; 15(7):3173-8. doi: 10.52711/0974-360X.2022.00531 (<https://www.doi.org/10.52711/0974-360X.2022.00531>)

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(AbstractView.aspx?  
PID=2022-15-  
7-53)

## Effect of Omega-3-Rich Fish Oil on TNF- Expression in Mice's Colonic Tissue Induced with Azoxymethane (AOM) and Dextran Sodium Sulphate (DSS) (AbstractView.aspx?PID=2022-15-7-54)

Author(s): Elvan Wiyarta, Kusmardi Kusmardi, Yurnadi Hanafi Midoen

DOI: 10.52711/0974-360X.2022.00532 (<https://www.doi.org/10.52711/0974-360X.2022.00532>)

Views: 0 (pdf), 502 (html)

Access:  Closed Access

Cite: Elvan Wiyarta, Kusmardi Kusmardi, Yurnadi Hanafi Midoen. Effect of Omega-3-Rich Fish Oil on TNF-Expression in Mice's Colonic Tissue Induced with Azoxymethane (AOM) and Dextran Sodium Sulphate (DSS). *Research Journal of Pharmacy and Technology*. 2022; 15(7):3179-4. doi: 10.52711/0974-360X.2022.00532 (<https://www.doi.org/10.52711/0974-360X.2022.00532>)

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(AbstractView.aspx?  
PID=2022-15-  
7-54)

## In vivo investigation of the potential hypoglycemic activity of Pennisetum setaceum: Justification of the traditional use among Jordanians (AbstractView.aspx?PID=2022-15-7-55)

Author(s): Lidia K. Al-Halaseh, Nariman A. Al-Jawabri, Hayat Al-Btoush, Rawan Al-Suhaimat, Siba Majali, Maha N. Abu Hajleh, Ali Al-Samydai, Mai A.M. Ahmed

DOI: 10.52711/0974-360X.2022.00533 (<https://www.doi.org/10.52711/0974-360X.2022.00533>)

Views: 0 (pdf), 624 (html)

Access:  Closed Access

Cite: Lidia K. Al-Halaseh, Nariman A. Al-Jawabri, Hayat Al-Btoush, Rawan Al-Suhaimat, Siba Majali, Maha N. Abu Hajleh, Ali Al-Samydai, Mai A.M. Ahmed. In vivo investigation of the potential hypoglycemic activity of Pennisetum setaceum: Justification of the traditional use among Jordanians. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3185-9. doi: 10.52711/0974-360X.2022.00533 (<https://www.doi.org/10.52711/0974-360X.2022.00533>)

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(AbstractView.aspx?  
PID=2022-15-  
7-55)

## Study of unstimulated salivary flow rate, total protein, albumin concentration and estimated albumin globulin ratio changes in normal adults according to age and gender (AbstractView.aspx?PID=2022-15-7-56)

Author(s): Brishna Dawlaty, Shamsulrahim Rahim

DOI: 10.52711/0974-360X.2022.00534 (<https://www.doi.org/10.52711/0974-360X.2022.00534>)

Views: 0 (pdf), 549 (html)

Access:  Closed Access

Cite: Brishna Dawlaty, Shamsulrahim Rahim. Study of unstimulated salivary flow rate, total protein, albumin concentration and estimated albumin globulin ratio changes in normal adults according to age and gender. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3190-4. doi: 10.52711/0974-360X.2022.00534 (<https://www.doi.org/10.52711/0974-360X.2022.00534>)

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(AbstractView.aspx?  
PID=2022-15-  
7-56)

## Molecular Docking studies of THC-HCA on Cancer Receptors (AbstractView.aspx?PID=2022-15-7-57)

**Author(s):** S Narendra Kumar, Chetan D M, Lingayya Hiremath, Ajeet Kumar Srivastava, Muralidhara P L, Jyothsana R, Rithika Pravin Iye, Ruchika Pravin Iyer

**DOI:** 10.52711/0974-360X.2022.00535 (<https://www.doi.org/10.52711/0974-360X.2022.00535>)

**Views:** 0 (pdf), 709 (html)

**Access:**  Closed Access

**Cite:** S Narendra Kumar, Chetan D M, Lingayya Hiremath, Ajeet Kumar Srivastava, Muralidhara P L, Jyothsana R, Rithika Pravin Iye, Ruchika Pravin Iyer. Molecular Docking studies of THC-HCA on Cancer Receptors. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3195-9. doi: 10.52711/0974-360X.2022.00535 (<https://www.doi.org/10.52711/0974-360X.2022.00535>)

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(AbstractView.aspx?

PID=2022-15-  
7-57)

## Study the predictable correlation between recurrent abortion with the level of proteins S, C, age and blood groups in women in AL-Najaf governorate, Iraq (AbstractView.aspx?PID=2022-15-7-58)

**Author(s):** Maysoon Khudair. AL-Hadrawi, Ahmed Abdul Hasan Mohsin, Kais K.AL- Hadrawai, Noor Ismeal Nasser, Ali k. Metiab

**DOI:** 10.52711/0974-360X.2022.00536 (<https://www.doi.org/10.52711/0974-360X.2022.00536>)

**Views:** 0 (pdf), 775 (html)

**Access:**  Closed Access

**Cite:** Maysoon Khudair. AL-Hadrawi, Ahmed Abdul Hasan Mohsin, Kais K.AL- Hadrawai, Noor Ismeal Nasser, Ali k. Metiab. Study the predictable correlation between recurrent abortion with the level of proteins S, C, age and blood groups in women in AL-Najaf governorate, Iraq. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3200-4. doi: 10.52711/0974-360X.2022.00536 (<https://www.doi.org/10.52711/0974-360X.2022.00536>)

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(AbstractView.aspx?

PID=2022-15-  
7-58)

## Study of S. aureus isolated from wound infection of Rhinoplasty (AbstractView.aspx?PID=2022-15-7-59)

**Author(s):** Aasem Mohamed Al-Byti, Saygin Abdulkadir Chakmakchy, Abdulrazzaq Abbas Waheeb, Avan hassan Mohammed Ameen, Muhannad Abdullah Alazzawy, Nihad Khalawe Tektook

**DOI:** 10.52711/0974-360X.2022.00537 (<https://www.doi.org/10.52711/0974-360X.2022.00537>)

**Views:** 0 (pdf), 637 (html)

**Access:**  Closed Access

**Cite:** Aasem Mohamed Al-Byti, Saygin Abdulkadir Chakmakchy, Abdulrazzaq Abbas Waheeb, Avan hassan Mohammed Ameen, Muhannad Abdullah Alazzawy, Nihad Khalawe Tektook. Study of S. aureus isolated from wound infection of Rhinoplasty. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3205-8. doi: 10.52711/0974-360X.2022.00537 (<https://www.doi.org/10.52711/0974-360X.2022.00537>)

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(AbstractView.aspx?

PID=2022-15-  
7-59)

## Promiscuous or Dirty drug with Multifunctional Druggability nature of Curcumin (*Curcuma longa* Linn.); Repurposing in propranolol withdrawal-induced OCD related Anxiety: A promising drug discovery besides One-Drug-One-Receptor approach via in silico in vivo studies (AbstractView.aspx?PID=2022-15-7-6)

Author(s): Rahul Kumar Mishra, Ashutosh Mishra, Amresh Gupta

DOI: 10.52711/0974-360X.2022.00484 (<https://www.doi.org/10.52711/0974-360X.2022.00484>)

Views: 0 (pdf), 834 (html)

Access:  Closed Access

Cite: Rahul Kumar Mishra, Ashutosh Mishra, Amresh Gupta. Promiscuous or Dirty drug with Multifunctional Druggability nature of Curcumin (*Curcuma longa* Linn.); Repurposing in propranolol withdrawal-induced OCD related Anxiety: A promising drug discovery besides One-Drug-One-Receptor approach via in silico in vivo studies. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2898-8. doi: 10.52711/0974-360X.2022.00484 (<https://www.doi.org/10.52711/0974-360X.2022.00484>)

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(AbstractView.aspx?

PID=2022-15-

7-6)

## New spectrophotometric methods for the estimation of Ziprasidone - An Antipsychotic drug (AbstractView.aspx?PID=2022-15-7-60)

Author(s): Mukthinuthalapati Mathrusri Annapurna, Volety Malavika

DOI: 10.52711/0974-360X.2022.00538 (<https://www.doi.org/10.52711/0974-360X.2022.00538>)

Views: 0 (pdf), 641 (html)

Access:  Closed Access

Cite: Mukthinuthalapati Mathrusri Annapurna, Volety Malavika. New spectrophotometric methods for the estimation of Ziprasidone - An Antipsychotic drug. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3209-2. doi: 10.52711/0974-360X.2022.00538 (<https://www.doi.org/10.52711/0974-360X.2022.00538>)

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(AbstractView.aspx?

PID=2022-15-

7-60)

## Hepatoprotective Potential of Aqueous Extract of *Hibiscus rosasinensis* and *Butea monosperma* against Fe-NTA induced Hepatotoxicity in Rats (AbstractView.aspx?PID=2022-15-7-61)

Author(s): Ram Dayal, Ruhi, Bimlesh Kumar, Indu Melkani, Ankita Sood, Narendra Kumar Pandey, Sukhanpreet kaur, Gagandeep Kaur, Saurabh Singh, Dileep Singh Baghel, Kardam Joshi, Dhara Patel, Anupriya

DOI: 10.52711/0974-360X.2022.00539 (<https://www.doi.org/10.52711/0974-360X.2022.00539>)

Views: 0 (pdf), 850 (html)

Access:  Closed Access

Cite: Ram Dayal, Ruhi, Bimlesh Kumar, Indu Melkani, Ankita Sood, Narendra Kumar Pandey, Sukhanpreet kaur, Gagandeep Kaur, Saurabh Singh, Dileep Singh Baghel, Kardam Joshi, Dhara Patel, Anupriya. Hepatoprotective Potential of Aqueous Extract of *Hibiscus rosasinensis* and *Butea monosperma* against Fe-NTA induced Hepatotoxicity in Rats. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3213-0. doi: 10.52711/0974-360X.2022.00539 (<https://www.doi.org/10.52711/0974-360X.2022.00539>)

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(AbstractView.aspx?

PID=2022-15-

7-61)



## Formulation and evaluation of orlistat loaded microsponges for the treatment of obesity (AbstractView.aspx?PID=2022-15-7-62)

**Author(s):** *Rahul Vishvakarma, Arti Majumdar, Neelesh Malviya*

**DOI:** *10.52711/0974-360X.2022.00540 (https://www.doi.org/10.52711/0974-360X.2022.00540)*

**Views:** 0 (pdf), 882 (html)

**Access:**  Closed Access

**Cite:** *Rahul Vishvakarma, Arti Majumdar, Neelesh Malviya. Formulation and evaluation of orlistat loaded microsponges for the treatment of obesity. Research Journal of Pharmacy and Technology. 2022; 15(7):3221-5. doi: 10.52711/0974-360X.2022.00540 (https://www.doi.org/10.52711/0974-360X.2022.00540)*

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(AbstractView.aspx?  
PID=2022-15-  
7-62)

## Estimation of Nine Organic Volatile Impurities in Bulk Dapagliflozin propandiol hydrate and Dosage forms from different sources using a new developed HS-GC-FID method (AbstractView.aspx?PID=2022-15-7-63)

**Author(s):** *Ali Ismail, Mohammad Haroun, Youssef Alahmad*

**DOI:** *10.52711/0974-360X.2022.00541 (https://www.doi.org/10.52711/0974-360X.2022.00541)*

**Views:** 0 (pdf), 696 (html)

**Access:**  Closed Access

**Cite:** *Ali Ismail, Mohammad Haroun, Youssef Alahmad. Estimation of Nine Organic Volatile Impurities in Bulk Dapagliflozin propandiol hydrate and Dosage forms from different sources using a new developed HS-GC-FID method. Research Journal of Pharmacy and Technology. 2022; 15(7):3226-2. doi: 10.52711/0974-360X.2022.00541 (https://www.doi.org/10.52711/0974-360X.2022.00541)*

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(AbstractView.aspx?  
PID=2022-15-  
7-63)

## Unfolding Biomechanism of Dolichos lablab Bean as A Dietary Supplement in Type 2 Diabetes Mellitus Management through Computational Simulation (AbstractView.aspx?PID=2022-15-7-64)

**Author(s):** *Elly Purwanti, Feri E. Hermanto, Wahyu Prihanta, Tutut I. Permana*

**DOI:** *10.52711/0974-360X.2022.00542 (https://www.doi.org/10.52711/0974-360X.2022.00542)*

**Views:** 0 (pdf), 733 (html)

**Access:**  Closed Access

**Cite:** *Elly Purwanti, Feri E. Hermanto, Wahyu Prihanta, Tutut I. Permana. Unfolding Biomechanism of Dolichos lablab Bean as A Dietary Supplement in Type 2 Diabetes Mellitus Management through Computational Simulation. Research Journal of Pharmacy and Technology. 2022;15(7):3233-0. doi: 10.52711/0974-360X.2022.00542 (https://www.doi.org/10.52711/0974-360X.2022.00542)*

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(AbstractView.aspx?  
PID=2022-15-  
7-64)

## Histological effect of *Plantago lanceolata* on different Mice Organs (AbstractView.aspx?PID=2022-15-7-65)

Author(s): Zina F.H. Al-Obaidi, Zahraa Ahmed Okhti

DOI: 10.52711/0974-360X.2022.00543 (<https://www.doi.org/10.52711/0974-360X.2022.00543>)

Views: 0 (pdf), 824 (html)

Access:  Closed Access

Cite: Zina F.H. Al-Obaidi, Zahraa Ahmed Okhti. Histological effect of *Plantago lanceolata* on different Mice Organs. *Research Journal of Pharmacy and Technology*. 2022;15(7):3241-4. doi: 10.52711/0974-360X.2022.00543 (<https://www.doi.org/10.52711/0974-360X.2022.00543>)

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(AbstractView.aspx?  
PID=2022-15-  
7-65)

## Preparation, Characterisation and Antifungal activity of Gold Nanoparticles prepared with Fresh Extract of *Aconitum heterophyllum* leaves (AbstractView.aspx?PID=2022-15-7-66)

Author(s): Mohammad Akhtar Rasool, Girendra Kumar Gautam, Durga Prasad Panda, Dimak Chand Sahu

DOI: 10.52711/0974-360X.2022.00544 (<https://www.doi.org/10.52711/0974-360X.2022.00544>)

Views: 0 (pdf), 715 (html)

Access:  Closed Access

Cite: Mohammad Akhtar Rasool, Girendra Kumar Gautam, Durga Prasad Panda, Dimak Chand Sahu. Preparation, Characterisation and Antifungal activity of Gold Nanoparticles prepared with Fresh Extract of *Aconitum heterophyllum* leaves. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3245-0. doi: 10.52711/0974-360X.2022.00544 (<https://www.doi.org/10.52711/0974-360X.2022.00544>)

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(AbstractView.aspx?  
PID=2022-15-  
7-66)

## Detection of Streptokinase Production by *Streptococcus pyogenes* using Real Time PCR (AbstractView.aspx?PID=2022-15-7-67)

Author(s): Nedhaal S. Zbar, Zaid N. Abbas, Dhafar N. Al-Ugaili

DOI: 10.52711/0974-360X.2022.00545 (<https://www.doi.org/10.52711/0974-360X.2022.00545>)

Views: 0 (pdf), 664 (html)

Access:  Closed Access

Cite: Nedhaal S. Zbar, Zaid N. Abbas, Dhafar N. Al-Ugaili. Detection of Streptokinase Production by *Streptococcus pyogenes* using Real Time PCR. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3251-4. doi: 10.52711/0974-360X.2022.00545 (<https://www.doi.org/10.52711/0974-360X.2022.00545>)

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(AbstractView.aspx?  
PID=2022-15-  
7-67)

## Extended spectrum of Beta-lactamase-positive Escherichia coli causing complicated Urinary Tract Infection and their resistance towards different Therapeutic drugs (AbstractView.aspx?PID=2022-15-7-68)

Author(s): Dhamodharan S., Anima Nanda, B. K. Nayak

DOI: 10.52711/0974-360X.2022.00546 (<https://www.doi.org/10.52711/0974-360X.2022.00546>)

Views: 0 (pdf), 627 (html)

Access:  Closed Access

Cite: Dhamodharan S., Anima Nanda, B. K. Nayak. Extended spectrum of Beta-lactamase-positive Escherichia coli causing complicated Urinary Tract Infection and their resistance towards different Therapeutic drugs. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3255-9. doi: 10.52711/0974-360X.2022.00546 (<https://www.doi.org/10.52711/0974-360X.2022.00546>)

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(AbstractView.aspx?

PID=2022-15-

7-68)

## Quality by design approach for developing Emulgel of Diclofenac with central composite Design and Evaluation using in vitro release testing (AbstractView.aspx?PID=2022-15-7-69)

Author(s): Aashish Kumar, Ravinder Verma, Kunwar Pal, Deepika Purohit, Parijat Pandey, Vineet Mittal, Deepak Kaushik

DOI: 10.52711/0974-360X.2022.00547 (<https://www.doi.org/10.52711/0974-360X.2022.00547>)

Views: 0 (pdf), 762 (html)

Access:  Closed Access

Cite: Aashish Kumar, Ravinder Verma, Kunwar Pal, Deepika Purohit, Parijat Pandey, Vineet Mittal, Deepak Kaushik. Quality by design approach for developing Emulgel of Diclofenac with central composite Design and Evaluation using in vitro release testing. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3260-6. doi: 10.52711/0974-360X.2022.00547 (<https://www.doi.org/10.52711/0974-360X.2022.00547>)

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(AbstractView.aspx?

PID=2022-15-

7-69)

## Development and Validation of Bioanalytical Method for Simultaneous Estimation of Olmesartan medoximil and Metoprolol succinate by UHPLC-MS/MS in human plasma (AbstractView.aspx?PID=2022-15-7-7)

Author(s): Nirmal Thakker, Gajanan Shinde, Abhay Dharamsi, Vishnu Choudhari, Sarita Pawar

DOI: 10.52711/0974-360X.2022.00485 (<https://www.doi.org/10.52711/0974-360X.2022.00485>)

Views: 0 (pdf), 674 (html)

Access:  Closed Access

Cite: Nirmal Thakker, Gajanan Shinde, Abhay Dharamsi, Vishnu Choudhari, Sarita Pawar. Development and Validation of Bioanalytical Method for Simultaneous Estimation of Olmesartan medoximil and Metoprolol succinate by UHPLC-MS/MS in human plasma. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2909-6. doi: 10.52711/0974-360X.2022.00485 (<https://www.doi.org/10.52711/0974-360X.2022.00485>)

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(AbstractView.aspx?

PID=2022-15-

7-7)

## Impact of peptic ulcer disease on the quality of life: A Cross Sectional Study (AbstractView.aspx?PID=2022-15-7-70)

**Author(s):** Sadeel A. Shanshal, Ali Saleh Noori, Jaafar Atheer Ghazi, Abdullah Tahseen Dahham, Abdulrahman Samer Mohamed Saleh, Harith Kh. Al-Qazaz

**DOI:** 10.52711/0974-360X.2022.00548 (<https://www.doi.org/10.52711/0974-360X.2022.00548>)

**Views:** 0 (pdf), 826 (html)

**Access:**  Closed Access

**Cite:** Sadeel A. Shanshal, Ali Saleh Noori, Jaafar Atheer Ghazi, Abdullah Tahseen Dahham, Abdulrahman Samer Mohamed Saleh, Harith Kh. Al-Qazaz. *Impact of peptic ulcer disease on the quality of life: A Cross Sectional Study. Research Journal of Pharmacy and Technology.* 2022; 15(7):3267-2. doi: 10.52711/0974-360X.2022.00548 (<https://www.doi.org/10.52711/0974-360X.2022.00548>)

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(AbstractView.aspx?

PID=2022-15-  
7-70)

## Formulation and In-vitro, In-vivo Evaluation of Itraconazole and Itraconazole Co-Crystals Loaded Glyceryl Monooleate Based Liquid Crystalline Gel (AbstractView.aspx?PID=2022-15-7-71)

**Author(s):** Amol Shete, Pankaj Chothe, Rajendra Doijad, Sachin Sajane

**DOI:** 10.52711/0974-360X.2022.00549 (<https://www.doi.org/10.52711/0974-360X.2022.00549>)

**Views:** 0 (pdf), 847 (html)

**Access:**  Closed Access

**Cite:** Amol Shete, Pankaj Chothe, Rajendra Doijad, Sachin Sajane. *Formulation and In-vitro, In-vivo Evaluation of Itraconazole and Itraconazole Co-Crystals Loaded Glyceryl Monooleate Based Liquid Crystalline Gel. Research Journal of Pharmacy and Technology.* 2022; 15(7):3273-9. doi: 10.52711/0974-360X.2022.00549 (<https://www.doi.org/10.52711/0974-360X.2022.00549>)

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(AbstractView.aspx?

PID=2022-15-  
7-71)

## Novel Therapeutic Approach of Mollugo cerviana (L.) Ser Plant: A Review (AbstractView.aspx?PID=2022-15-7-72)

**Author(s):** Nirupama Rani Dewangan, Avantika Agrawal, Bharti Ahirwar

**DOI:** 10.52711/0974-360X.2022.00550 (<https://www.doi.org/10.52711/0974-360X.2022.00550>)

**Views:** 0 (pdf), 981 (html)

**Access:**  Closed Access

**Cite:** Nirupama Rani Dewangan, Avantika Agrawal, Bharti Ahirwar. *Novel Therapeutic Approach of Mollugo cerviana (L.) Ser Plant: A Review. Research Journal of Pharmacy and Technology.* 2022; 15(7):3280-4. doi: 10.52711/0974-360X.2022.00550 (<https://www.doi.org/10.52711/0974-360X.2022.00550>)

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(AbstractView.aspx?

PID=2022-15-  
7-72)

## Role of Nanoemulsion as Drugs Delivery Systems in Ophthalmology: A Comprehensive Review (AbstractView.aspx?PID=2022-15-7-73)

Author(s): Amit Chaudhary, Shivalika, Bhupendra Tomar, Kapil Kumar Verma

DOI: 10.52711/0974-360X.2022.00551 (<https://www.doi.org/10.52711/0974-360X.2022.00551>)

Views: 0 (pdf), 647 (html)

Access:  Closed Access

Cite: Amit Chaudhary, Shivalika, Bhupendra Tomar, Kapil Kumar Verma. Role of Nanoemulsion as Drugs Delivery Systems in Ophthalmology: A Comprehensive Review. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3285-4. doi: 10.52711/0974-360X.2022.00551 (<https://www.doi.org/10.52711/0974-360X.2022.00551>)

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(AbstractView.aspx?  
PID=2022-15-  
7-73)

## In-Vitro Dissolution Study protocol for various Vaginal Dosage Forms (AbstractView.aspx?PID=2022-15-7-74)

Author(s): Ananta Choudhury, Madhusmita Kumari, Biplab Kumar Dey

DOI: 10.52711/0974-360X.2022.00552 (<https://www.doi.org/10.52711/0974-360X.2022.00552>)

Views: 0 (pdf), 970 (html)

Access:  Closed Access

Cite: Ananta Choudhury, Madhusmita Kumari, Biplab Kumar Dey. In-Vitro Dissolution Study protocol for various Vaginal Dosage Forms. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3295-0. doi: 10.52711/0974-360X.2022.00552 (<https://www.doi.org/10.52711/0974-360X.2022.00552>)

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(AbstractView.aspx?  
PID=2022-15-  
7-74)

## Almond (Prunus amygdalus Batsch.): A Latest Review on Pharmacology and Medicinal uses (AbstractView.aspx?PID=2022-15-7-75)

Author(s): Diksha Singh, Kashmira J. Gohil, Rekha T. Rajput, Vikash Sharma

DOI: 10.52711/0974-360X.2022.00553 (<https://www.doi.org/10.52711/0974-360X.2022.00553>)

Views: 0 (pdf), 995 (html)

Access:  Closed Access

Cite: Diksha Singh, Kashmira J. Gohil, Rekha T. Rajput, Vikash Sharma. Almond (Prunus amygdalus Batsch.): A Latest Review on Pharmacology and Medicinal uses. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3301-8. doi: 10.52711/0974-360X.2022.00553 (<https://www.doi.org/10.52711/0974-360X.2022.00553>)

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(AbstractView.aspx?  
PID=2022-15-  
7-75)

## Nanostructured Lipid Carriers: A Vital Drug Carrier for Migraine Treatment (AbstractView.aspx?PID=2022-15-7-76)

Author(s): Swati Lade, Nirmal Shah, Sushil Burle

DOI: 10.52711/0974-360X.2022.00554 (<https://www.doi.org/10.52711/0974-360X.2022.00554>)

Views: 0 (pdf), 934 (html)

Access:  Closed Access

Cite: Swati Lade, Nirmal Shah, Sushil Burle. Nanostructured Lipid Carriers: A Vital Drug Carrier for Migraine Treatment. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3309-6. doi: 10.52711/0974-360X.2022.00554 (<https://www.doi.org/10.52711/0974-360X.2022.00554>)

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(AbstractView.aspx?  
PID=2022-15-  
7-76)

## Microglia as a Potential Target for Antidepressant: A Systematic Review on Preclinical studies (AbstractView.aspx?PID=2022-15-7-77)

Author(s): Baiq Risky Wahyu Lisnasari, **Chrismawan Ardianto**, Junaidi Khotib

DOI: 10.52711/0974-360X.2022.00555 (<https://www.doi.org/10.52711/0974-360X.2022.00555>)

Views: 0 (pdf), 694 (html)

Access:  Closed Access

Cite: Baiq Risky Wahyu Lisnasari, Chrismawan Ardianto, Junaidi Khotib. Microglia as a Potential Target for Antidepressant: A Systematic Review on Preclinical studies. *Research Journal of Pharmacy and Technology*. 2022;15(7):3317-3. doi: 10.52711/0974-360X.2022.00555 (<https://www.doi.org/10.52711/0974-360X.2022.00555>)

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(AbstractView.aspx?  
PID=2022-15-  
7-77)

## A Novel approach to Enhance Gastric Retention for better Therapeutic Activity: Gastro Retentive Drug Delivery System (AbstractView.aspx?PID=2022-15-7-78)

Author(s): Archana Rajmane, Rahul Trivedi, Tanaji Nandgude

DOI: 10.52711/0974-360X.2022.00556 (<https://www.doi.org/10.52711/0974-360X.2022.00556>)

Views: 0 (pdf), 896 (html)

Access:  Closed Access

Cite: Archana Rajmane, Rahul Trivedi, Tanaji Nandgude. A Novel approach to Enhance Gastric Retention for better Therapeutic Activity: Gastro Retentive Drug Delivery System. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3324-0. doi: 10.52711/0974-360X.2022.00556 (<https://www.doi.org/10.52711/0974-360X.2022.00556>)

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(AbstractView.aspx?  
PID=2022-15-  
7-78)

## A Review on Birth control: Natural source as Anti-fertility agents (AbstractView.aspx?PID=2022-15-7-79)

Author(s): Gayatri Khosla, Vikram Sharma, Vikesh Kumar Shukla

DOI: 10.52711/0974-360X.2022.00557 (<https://www.doi.org/10.52711/0974-360X.2022.00557>)

Views: 0 (pdf), 953 (html)

Access:  Closed Access

Cite: Gayatri Khosla, Vikram Sharma, Vikesh Kumar Shukla. A Review on Birth control: Natural source as Anti-fertility agents. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3331-7. doi: 10.52711/0974-360X.2022.00557 (<https://www.doi.org/10.52711/0974-360X.2022.00557>)

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(AbstractView.aspx?  
PID=2022-15-  
7-79)

## Molecular characterization of Clinical carbapenem-resistant Acinetobacter baumannii isolates from two tertiary care hospitals in Indonesia (AbstractView.aspx?PID=2022-15-7-8)

Author(s): Heriyannis Homenta, Julyadharna, Yulia Rosa Saharman, Kuntaman Kuntaman, Hani Susianti, Dewi Santosaningsih, Noorhamdani

DOI: 10.52711/0974-360X.2022.00486 (<https://www.doi.org/10.52711/0974-360X.2022.00486>)

Views: 0 (pdf), 873 (html)

Access:  Closed Access

Cite: Heriyannis Homenta, Julyadharna, Yulia Rosa Saharman, Kuntaman Kuntaman, Hani Susianti, Dewi Santosaningsih, Noorhamdani. Molecular characterization of Clinical carbapenem-resistant Acinetobacter baumannii isolates from two tertiary care hospitals in Indonesia. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2917-2. doi: 10.52711/0974-360X.2022.00486 (<https://www.doi.org/10.52711/0974-360X.2022.00486>)

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(AbstractView.aspx?  
PID=2022-15-  
7-8)

## Review on Anticancer properties of Piperine in Oral cancer: Therapeutic Perspectives (AbstractView.aspx?PID=2022-15-7-80)

Author(s): Vidhya Rekha U, Prabhu MN, Bhuminathan. S

DOI: 10.52711/0974-360X.2022.00558 (<https://www.doi.org/10.52711/0974-360X.2022.00558>)

Views: 0 (pdf), 626 (html)

Access:  Closed Access

Cite: Vidhya Rekha U, Prabhu MN, Bhuminathan. S. Review on Anticancer properties of Piperine in Oral cancer: Therapeutic Perspectives. *Research Journal of Pharmacy and Technology*. 2022; 15(7):3338-2. doi: 10.52711/0974-360X.2022.00558 (<https://www.doi.org/10.52711/0974-360X.2022.00558>)

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(AbstractView.aspx?  
PID=2022-15-  
7-80)

## Acute and Subacute Oral Toxicity studies on Aquatic plant *Trapa natans* L. using a Rat Model (AbstractView.aspx?PID=2022-15-7-9)

Author(s): Chandana Majee, Rupa Mazumder, Alka N. Choudhary

DOI: 10.52711/0974-360X.2022.00487 (<https://www.doi.org/10.52711/0974-360X.2022.00487>)

Views: 0 (pdf), 758 (html)

Access:  Closed Access

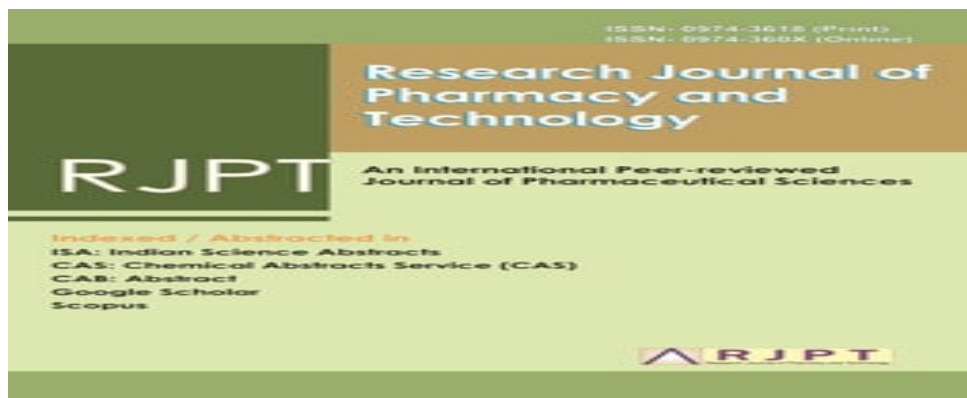
Cite: Chandana Majee, Rupa Mazumder, Alka N. Choudhary. Acute and Subacute Oral Toxicity studies on Aquatic plant *Trapa natans* L. using a Rat Model. *Research Journal of Pharmacy and Technology*. 2022; 15(7):2923-7. doi: 10.52711/0974-360X.2022.00487 (<https://www.doi.org/10.52711/0974-360X.2022.00487>)

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**REVIEW ARTICLE**

## **Microglia as a Potential Target for Antidepressant: A Systematic Review on Preclinical studies**

**Baiq Risky Wahyu Lisnasari, Chrismawan Ardianto, Junaidi Khotib\***

Department of Pharmacy Practice, Faculty of Pharmacy, Universitas Airlangga, Surabaya 60115, Indonesia.

\*Corresponding Author E-mail: [junaidi-k@ff.unair.ac.id](mailto:junaidi-k@ff.unair.ac.id)

**ABSTRACT:**

Depression is a heterogeneous disorder with more than one possible etiologies. Currently, studies are mostly focused on neuronal dysfunction, while the involvement of other brain cells, such as microglia, has not been widely explored. This review aimed to systematically review the studies reporting the effect of microglia inhibitors on depressive-like behavior in rodent models, to obtain a better understanding of the effectiveness of the intervention against depression. The PubMed database was explored from January 2011 to April 2021 with related keywords for full-text publications reporting antidepressant effects of microglial inhibitor in rodents. We identified 713 research publications, of which only 25 studies met the inclusion criteria and were included for analysis. Administration of antidepressant drugs/compounds that inhibit microglia was reported to be beneficial because it improved depression-like symptoms by reducing outcomes based on immobility, anhedonia, and locomotor activity. Microglia inactivation has been reported to occur through inhibition of the HMGB1/TLR4/NF- $\kappa$ B and NLRP3/NF- $\kappa$ B pathways, as well as improved communication of microglia neurons through increased interaction of CX3CL1 with CX3CR1. These data indicated that the use of an agent inhibiting microglia activity is promising as a strategy in overcoming depression in humans.

**KEYWORDS:** Microglia, HMG/TLR pathway, Depression, Mental illness, Mental disorder.

**INTRODUCTION:**

Depression is the leading cause of disability worldwide and globally affects more than 264 million people of all ages<sup>1</sup>. The economic burden of depression is reported to be around \$210.5 billion, consisting of direct costs (45%), suicide-related costs (5%), and workplace costs (50%)<sup>2</sup>. Depression is prevalent among elderly, females, and patient with chronic illness<sup>3-7</sup>. Despite its high prevalence, the mechanisms associated with the pathogenesis of depression are not fully understood and current treatments have not shown effectiveness in the majority of patients in hospital or health care settings<sup>8,9</sup>.

Tests on the effectiveness of therapy referring to the AGT (Algorithm-guided Therapy) program showed the patient's response rate to the administration of pharmacotherapy agents (SSRI, SNRI, or TCA) was 20.7% with a remission rate of 31.0%<sup>10</sup>. These limitations lead to the need for the development of interventional therapies for depression so as to provide satisfactory outcomes.

Depression is a heterogeneous mental disorder, with more than one possible etiology<sup>11,12</sup>. Although there is ample evidence reporting on the molecular, cellular, and circuit-level mechanisms of depression, the biological mechanisms underlying this disorder are still not well understood. This may be because studies had focused on neuronal dysfunction, while the involvement of glial cells had not been widely explored<sup>13</sup>. Some evidence suggests microglia play an important role in the development and progression of depression<sup>14,15</sup>. Microglia are the main immune cells in the brain that play a role in immunosurveillance and neuroprotection through tight regulation of cytokines<sup>15,16</sup>. Under normal conditions, microglia are quiescent with a branched

morphology. Microglia will change shape into amoeboid when it detects a potentially harmful signal<sup>17</sup>. Microglia are categorized into 2 activation states: the M1 phenotype which is associated with the production of proinflammatory cytokines, and the M2 phenotype that expresses the cytokines to stop inflammation<sup>18</sup>. A number of recent evidences indicate the involvement of microglia in the pathophysiology of depression<sup>19,20</sup>. Synthesis of recent evidence may help to understand the extent to which inhibition of microglia activation can overcome depressive states. Thus, this study aimed to investigate the inhibitory effect of microglia activation on the improvement of depression-like behavior in rodent models.

## MATERIALS AND METHODS:

### Search Strategy:

PubMed database was systematically explored to identify experimental studies that tested the inhibitory effect of antidepressant in rodents. Data searching was limited to articles published from January 2011 to April 2021. We used the keywords microglia inhibitor, antidepressant, depressive-like behavior, microglia inactivation, and animal model. We used general searching keywords to find all potentially relevant articles.

We included studies reporting the effects of antidepressants which were acting by inhibiting microglia in animal models of depression, particularly mice and rats. Studies that administered antidepressants,

both before and after stress induction, were included in the review. Antidepressants were classified as drugs/compounds currently prescribed for depression or drugs/compounds that were under investigation as potential antidepressant drugs. We only involved articles published in English. All studies were screened and evaluated independently by two authors (BRWL and CA). Any discrepancies in the selection process were resolved by discussion among the authors. A senior investigator (JK) was consulted to revise the selection process. Study selection flowchart is shown in figure 1.

### Risk of Bias Assessment:

Risk of bias assessment was carried out based on risk of bias instrument the Systematic Review Center for Laboratory Animal Experimentation (SYRCLE) (Hooijmans et al., 2014). This instrument is based on the Cochrane Collaboration RoB Tool, which is based on the aspect of bias that plays an important role in animal studies. The aim is to uniformly assess methodological quality in the field of animal research. SYRCLE's risk bias of tools consists of 10 items with 6 types of bias, ie. selection bias, performance bias, detection bias, attrition bias, reporting bias, and other potential biases. The ten items were organized into sub-items in the form of questions that supported the answers "yes", "no", and "unclear answer". A score of "yes" indicated a low risk of bias, "no" indicated a high risk of bias, and "unclear" indicated an unknown risk of bias.

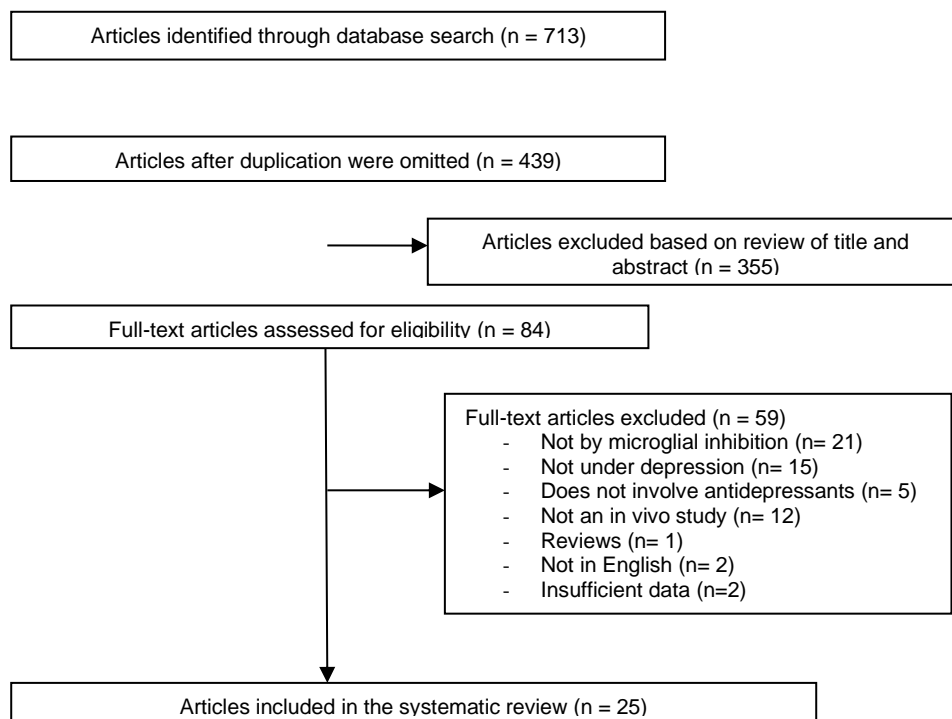


Fig 1. Flowchart of selecting articles in the study

**Table 1. The main of article characteristic and outcomes of the study**

Authors	Species	Gender	Induction model	Drugs Administered	Behavior Test	Results
Xu, et al. <sup>21</sup>	C57BL/6 Mice	Male	CUMS dan LPS	GW3965	SPT: sucrose intake ↑; TST: immobility ↓; EPM: anxiety ↔	Inhibiting M1 microglia polarization and NF-κB phosphorylation.
Cheng, et al. <sup>22</sup>	ICR Mice	Male	LPS	Paeoniflorin	SPT: sucrose intake ↑; FST: immobility ↓	Activating FGF-2/FGFR1 signaling
Feng et al. <sup>23</sup>	C57BL/6J Mice	Male	LPS	Phenol glycoside extract from <i>Fructus Ligustri Lucidi</i>	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: locomotor activity ↑	Inhibiting TLR4/MyD88 and TLR4/NLRP3 pathways
Zhang et al. <sup>24</sup>	C57BL/6J Mice	Male	LPS	Asperosaponin VI	OFT: time in center ↑; FST: immobility ↓	Inhibiting TLR4/NF-κB signaling pathway
Su et al. <sup>25</sup>	ICR Mice	Male	LPS	Saikosaponin-d	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: ↔	Regulating HMGB1/TLR4/NF-κB signaling pathway
Guo et al. <sup>26</sup>	Sprague Dawley Rats	Male	CUMS	Fingolimod	SPT: sucrose intake ↑; FST: immobility ↓; OFT: locomotor activity ↑	Shifting microglia polarization to M2 phenotype
Zhou et al. <sup>27</sup>	Sprague Dawley Rats	Male	<i>Chronic water immersion restraint stress</i>	Apelin-13	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: locomotor activity ↑	Inhibiting M1 microglia polarization, presumably via the inhibition of STAT3/NLRP3 pathway
Habib et al. <sup>28</sup>	Wistar Rats	Male	CMS	Lithium	SPT: sucrose intake ↑; FST: immobility ↓; OFT: locomotor activity ↑	Increasing hippocampal Wnt/β-catenin signaling pathway expression
Mao et al. <sup>29</sup>	Kunming Mice	Male	<i>Chronic water immersion restraint stress</i>	Caffeine	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓	Inhibiting A2AR/MEK/ERK/NF-κB signaling pathway
Xu et al. <sup>30</sup>	C57BL/6J Mice	Male	CUMS	Arctigenin	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: locomotor activity ↑	Inhibiting HMGB1/TLR4/NF-κB signaling pathway
Chen et al. <sup>31</sup>	ICR Mice	Male	LPS	Esculin	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: locomotor activity ↑	Inhibiting CCR5-regulated TLR4/NF-κB signaling pathway, leading to increased microglial M2 polarization
Feng et al. <sup>32</sup>	C57BL/6 Mice	Male	CMS	Mefenamic acid, celecoxib	SPT: sucrose intake ↑; FST: immobility ↓	Inhibiting ERK1/2 and P38 MAPK activation
Han et al. <sup>33</sup>	C57BL/6 Mice	Male	<i>Maternal separation</i>	Minocycline	SPT: sucrose intake ↑; FST: immobility ↓; OFT: ↔	Suppressing morphological and phenotypic changes of microglial M2
Wang et al. <sup>34</sup>	Balb/c Mice	Male	CUMS	Minocycline	SPT: sucrose intake ↑; TST: immobility ↓; Barnes maze: cognitive ↑	Inhibiting HMGB1 release
Zhang et al. <sup>35</sup>	Sprague Dawley Rats	Betina	CUMS	Minocycline	SPT: sucrose intake ↑; FST: immobility ↓; EPM: anxiety ↓	Suppressing M1 response and restoring GFAP and BDNF levels
Zheng et al. <sup>36</sup>	C57BL/6 Mice	Male	IFN-α	Minocycline	TST: immobility ↓; FST: immobility ↓	Preserving NSCs, neuronal progenitors, and new neurons, thereby enhancing neurogenesis
Wang et al. <sup>37</sup>	Sprague Dawley Rats	Male	<i>Early-life social isolation</i>	Minocycline	SPT: sucrose intake ↑; FST: immobility ↓	Downregulating H3K9me2 expression and restoring NR1, GluR1, and GluR2 expression
He et al. <sup>38</sup>	C57BL/6 Mice	Male	LPS	Paricalcitol	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓	Restoring microglia to a ramified form with normal soma size, suppressing NF-κB activation and NLRP3 and caspase-1 overexpression
Ito et al. <sup>39</sup>	C57BL/6 Mice	Male	<i>Chronic social defeat stress</i>	Kososan, a Japanese traditional herbal medicine	Social avoidance test: interaction ↑	Enhancing anti-inflammatory phenotype and inhibiting the increase of microglial proinflammatory phenotype
Vega-Rivera et al. <sup>40</sup>	Balb/c Mice	Male	CMS	Melatonin	SPT: sucrose intake ↑; FST: immobility ↓	Increasing CX3CL1/CX3CR1 signaling pathway, keeping the

						microglia in resting phenotype
Weng et al. <sup>41</sup>	ICR Mice	Male	LPS	Macranthol	SPT: sucrose intake ↑; FST: immobility ↓	Inhibiting the increase of Cd11b expression
Yamawaki et al. <sup>42</sup>	C57BL/6 Mice	Male	LPS	Sodium butyrate	FST: immobility ↓, OFT: ↔	Epigenetic regulation by downgrading the expression of the Efcab1 gene
Zhang et al. <sup>43</sup>	C57BL/6 Mice	Male	CMS	Salvianolic acid	SPT: sucrose intake ↑; TST: immobility ↓; FST: immobility ↓; OFT: ↔	Inhibiting microglial M1 polarization and activating microglial M2
Zhang et al. <sup>44</sup>	C57BL/6 Mice	Male	CMS	Salvianolic acid	TST: immobility ↓; FST: immobility ↓; OFT: ↔	Reducing the percentage of cleaved caspase-3
Zhao et al. <sup>45</sup>	C57BL/6 Mice	Male	CMS	Pioglitazone	TST: immobility ↓; FST: immobility ↓; OFT: locomotor activity ↑	Suppressing the expression of microglial M1 marker

Abbreviations: LPS: Lipopolysaccharide, CUMS: Chronic Unpredictable Mild Stress, SPT: Sucrose Preference Test, FST: Forced Swim Test, TST: Tail Suspension Test, OFT: Open Field Test, EPM: Elevated Plus Maze, ↑ represent a statistically significant increase in measured behavior, ↓ represent decrease, and ↔ represent unchanged behavior.

**Table 2. Assessment of the bias risk of the study**

Studies	Selection bias 1	Selection bias 2	Selection bias 3	Performance bias 1	Performance bias 2	Detection bias 1	Detection bias 2	Attrition bias	Reporting bias	Other potential bias
Xu, et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Cheng, et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes
Feng et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zhang et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes
Su et al	Unclear	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Guo et al	No	No	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zhou et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes
Habib et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes
Mao et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Xu et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Chen et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Feng et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes
Han et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Wang et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zhang et al	Unclear	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zheng et al	Unclear	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Wang et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
He et al	Unclear	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Ito et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Vega-Rivera et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Weng et al	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Yesmawaki et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes
Zhang et al	Yes	Yes	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zhang et al	No	No	Unclear	Unclear	Yes	Unclear	Yes	Yes	Yes	Yes
Zhao et al	Unclear	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Yes	Yes	Yes

**RESULTS AND DISCUSSION:**

**Characteristics of Included Studies:**

Twenty-five articles were included in the review after inclusion and exclusion criteria were applied. Five studies (20%) used rats as experimental animals and the other 20(80%) studies used mice. The induction models used were CUMS (44%), LPS injection (36%), TNF-α injection (4%), chronic social defeat stress (4%), maternal separation (4%), early-life social isolation (4%), and chronic water immersion restraint stress (8%). Twenty-three studies (92%) tested immobilization-based depressive-like behavior with forced swim test and/or tail-suspension test, 19 studies (76%) tested anhedonia-based depressive-like behavior with the sucrose preference test, 12 studies (48%) tested locomotor

activity with open field test, and 1 study (4%) tested social interaction with social avoidance test. The treatments (drugs or antidepressant-like compounds) administered were GW3965 (liver X receptor agonist) (4%), paeoniflorin (4%), phenol glycoside extract from *Fructus Ligustri lucidi* (4%), asperosaponin VI (4%), saikosaponin- d (4%), fingolimod (4%), applein-13 (4%), lithium (4%), caffeine (4%), arctigenin (4%), esculin (4%), mefenamic acid (4%), celecoxib (4%), minocycline (20%), paricalcitol (4%), kososan (4%), melatonin (4%), macranthol (4%), sodium butyrate (4%), salvianolic acid (8%), and pioglitazone (4%). The main characteristics and outcomes of the included studies are listed in Table 1. In general, the studies identified in this review support the evidence that

inhibition of microglia improves depressive-like behavior in experimental animals. Although the reports were heterogeneous, all studies (n=25, 100%) demonstrated that microglia inhibitors were effective in suppressing depression-like behavior and stress-induced changes in biological markers.

Assessment of the risk of bias of the included studies is shown in Table 2. Of the 25 studies, 23 studies reported randomization at the time of grouping of the experimental animals. However, there were no studies that mentioned the randomization method applied and the allocation sequence during the randomization process. In 8% of the studies, the baseline characteristics between control and experimental groups were different from the start of the experiment. There were no studies reporting efforts made to reduce performance bias. Blinding of outcome assessors was reported in 80% of the studies. There were no studies reporting randomized outcome assessments. The included studies had a low risk for attrition bias, reporting bias, and other potential biases. Overall, most sources of potential bias should be assessed as risk of unclear bias, resulting from poor reporting.

Available studies on the inhibitory effect of microglia activation on depressive states were heterogeneous and consist mostly of low-quality studies. The compounds administered varied widely among the studies selected for the final analysis, and so did the dose and duration of treatment, as well as the method of administration. Most of the studies used male experimental animals, so the effect of sex differences on outcomes was not considered in this analysis. The majority of selected studies found significant positive effects of antidepressant-like drugs/compounds on the observed measures, ranging from decreased neuroinflammatory markers, increased neurogenesis, and improved depression-like behavior on a number of behavioral tests.

#### **Effect of Microglial Inhibitor on Depressive Behavior:**

Microglia inhibitors have been shown to improve depressive-like behavior based on immobilization, anhedonia, and locomotor activity. Testing of new substances with desperate behavior tests, such as the forced swim test and tail suspension test, allows a simple assessment of their potential antidepressant activity by measuring their effect on immobilization<sup>46-48</sup>. The duration and latency of immobility reflect decreased mood in rodents that are selectively sensitive to antidepressant therapy<sup>47,49,50</sup>. The sucrose preference test was used to assess anhedonia loss of interest or pleasure behavior. Symptoms of anhedonia or decreased mood are criteria that must exist for the diagnosis of major depressive disorder<sup>51</sup>. Anhedonia has been associated with a poorer disease prognosis and less optimal

response to treatment<sup>52</sup>. The impact of anhedonia on quality of life and functional outcome in MDD makes it a very important target for antidepressant therapy. The open field test was used to measure locomotion and anxiety behavior, in which variables such as overall activity in the open field, time in center, and distance traveled were evaluated for 5 minutes<sup>53,54</sup>.

#### **Mechanism of action of Microglial Inhibitor:**

One of the classic activation results of the innate immune system is the induction of the proinflammatory phase, which is characterized by the production and release of proinflammatory cytokines, such as tumor necrosis factor-1 (TNF-1), interleukin-6 (IL-6), interleukin-1 $\beta$  (IL-1 $\beta$ ), proteases (matrix metalloproteinase-9), superoxide anion, nitric oxide (NO) and reactive oxygen-nitrogen species (N2O3, NO2)<sup>55</sup>. This systematic review provides evidence indicating that microglia inhibitors may represent an effective treatment option for depressive conditions. Several studies included in this review attempted to identify the pathways by which microglia inhibitory agents acted on the nervous system. The role of TLR4/NF- $\kappa$ B pathway was emphasized in 4 studies because of its role in regulating microglia polarization<sup>25, 30,31,34</sup>. TLR-4, a microglia-expressed first-line molecule to initiate the innate immune response, mediates the release of proinflammatory mediators via the NF- $\kappa$ B pathway<sup>56,57</sup>. Inhibition of the TLR4/NF- $\kappa$ B pathway causes a decrease in TNF- $\alpha$  and IL-1 $\beta$  levels, thereby preventing the conversion of microglia to M1 phenotype<sup>24,30</sup>. Inhibition of microglia will then cause a decrease in the release of HMGB1 (high mobility group box-1), damage associated molecular pattern (DAMP), an alarmin protein that may trigger a proinflammatory immune response through the activation of the TLR4/NF- $\kappa$ B pathway<sup>25,30,34</sup>.

The involvement of NLRP3 was reported in 3 studies (23, 27, 38). Activated NF- $\kappa$ B induces the transcription of NLRP3 (NOD-, LRR- and domain-containing pyrin 3), a cytosolic innate immune signaling receptor<sup>38</sup>. NLRP3 is a post-transcriptional regulator of IL-1 $\beta$  protein. Activation of NLRP3, one of which by TLR4, will cause caspase-1-mediated proteolysis of the IL-1 $\beta$  family<sup>23,27</sup>.

Neurons can regulate and/or maintain microglial activation status by releasing factors that influence basal microglial properties, which are thought to maintain homeostatic conditions in healthy brains<sup>58,59</sup>. Microglial cell activation is associated with decreased neuronal CX3CL1 (fractalkine) interactions with its receptor, CX3CR1, which is expressed by microglia<sup>40</sup>. Decreased CX3CL1 signaling and attenuation of crosstalk between neurons and microglia, affect transmission efficiency in adult brain synapses<sup>60</sup>.

## CONCLUSION:

The use of an agent inhibiting the activity of microglia may suppress the development of depressive-like behavior in experimental animals. This mechanism can be translated and further developed as a promising strategy in overcoming depression in humans.

## LIMITATIONS:

The main limitation of this systematic review was the heterogeneity and quality of the included studies. Species, designs and intervention protocols in preclinical studies often vary between studies. Analysis of the risk of bias showed poor reporting of important methodological details in most studies. Consequently, the risk of bias for each individual study was assessed as unclear risk of bias, which suggested that the effect of the treatment observed may be overestimated.

## CONFLICT OF INTEREST:

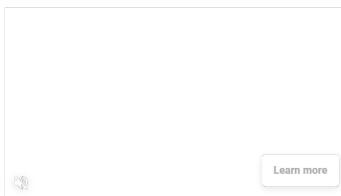
The authors declare no conflict of interest.

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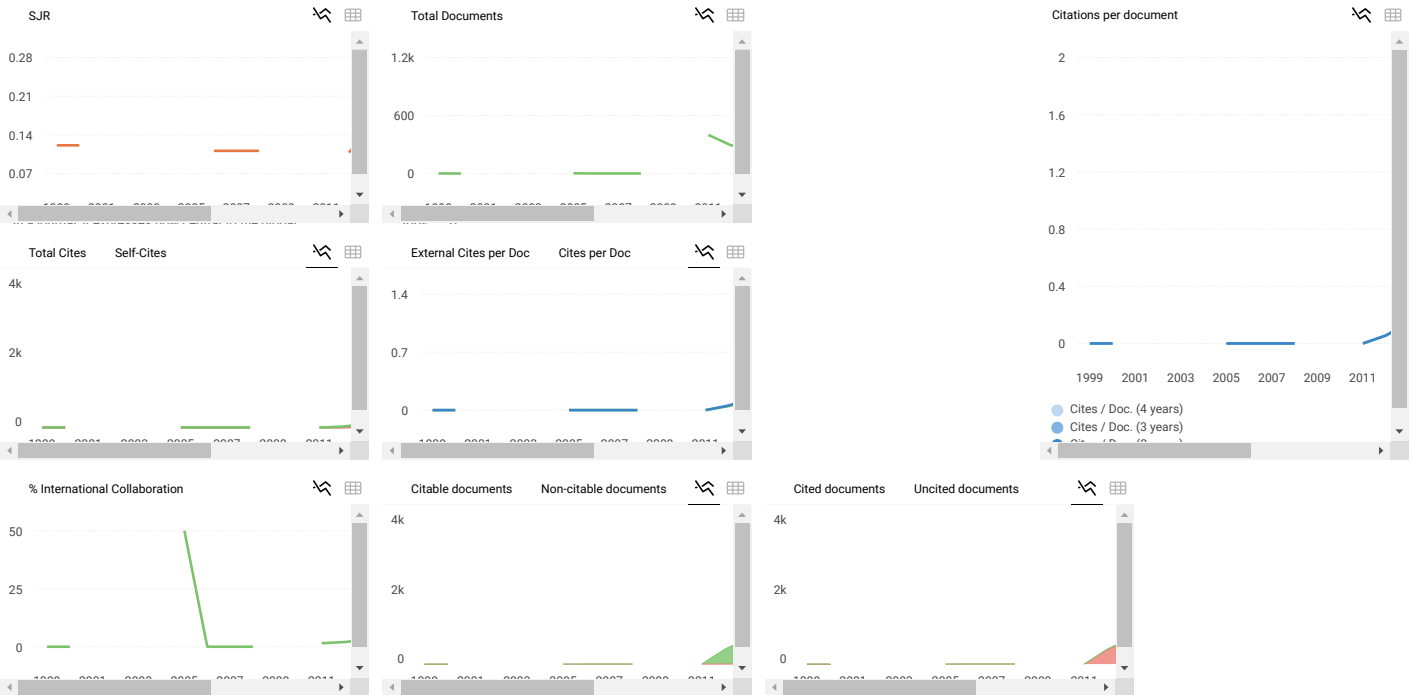
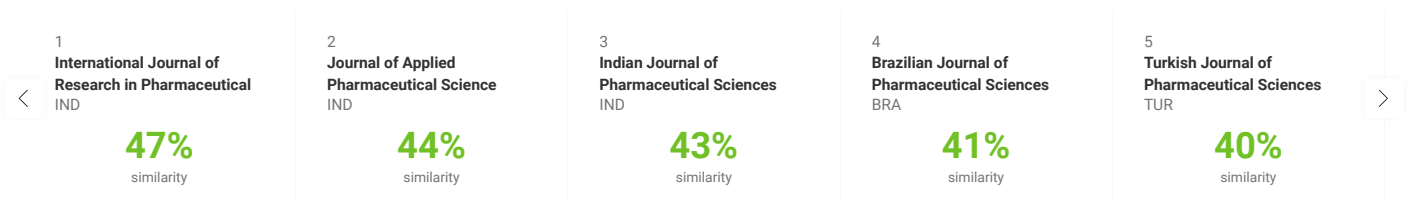
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