

# Annasaheb Dange College of B. Pharmacy, Ashta

Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301



Criteria: 3	Curricular Aspects
Key Indicator: 3.3	Research Publication and Awards
Metric No: 3.3.1	Number of papers published per teacher in the Journals notified on UGC website during the last five year

# **DVV Query**

Kindly provide the following documents:

- 1. Provide the link landing to the paper/article.
- 2. Provide the link to the journal website.
- 3 Provide screenshots of research articles clearly showing the title of the article, affiliation, name of the journal, year and authors name if the links and DOI number are not available.
- 4. Indicate in the data template against each paper about the presence of the paper in the UGC CARE list/Scopus/Web of Science.

#### **DVV** Clarifications Index

Sr. no.	Name of Particular DVV Query	Page no.	Document
1.	Provide the link landing to the paper/article	2	View Document
2.	Provide the link to the journal website.	21	View Document
3.	Provide screenshots of research articles clearly showing the title of the article, affiliation, name of the journal, year and authors name if the links and DOI number are not available.	40	View Document
4.	Indicate in the data template against each paper about the presence of the paper in the UGC CARE list/Scopus/Web of Science.	97	View Document



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# **DVV Clarification Query 1**

Sr.no.	Name of P	Name of Particular DVV Query										
1.	(Provide the link landing to the paper/article)											
	<b>Justification</b>											
The links are la	The links are landing to the paper/article given below in the template Academic Year wise											
1	Academic Year 21-22 Page no. 3-5 View Doct											
2	Academic Year 20-21	Page no 6-9	View Document									
3	Academic Year 19-20	Page no. 10-13	View Document									
4	Academic Year 18-19	Page no.14-16	View Document									
5	Academic Year 17-18	Page no.17-20	View Document									

**Back to DVV Clarification Index** 



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# Detailed summary for-The links are landing to the paper/article are given below

#### **AY-2021-22**

Sr. no	Title of paper	Name of the author/s	Depart ment of the teacher	Name of journal	Year of public ation	ISSN numbe r	/Digital O	ition in UGC enlistment of t bject Identifier (DOI numb	er)
			teacher		auon		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects	Sandip M. Honmane	Pharmacy	OpenNano	2022	2352- 9520	https://www.sciencedirect .com/journal/opennano	https://doi.org/10.1016/j.onano. 2022.100059	Scopus & UGC
2.	In silico molecular modeling study on Isatin derivatives as anti covid agents based on Qsar and molecular docking	Ganesh D.Mote, Shubhangi S. Kharat ,Shubhangi S.Savale, Aditya A. Bandgar	Pharmacy	Der pharma chemica	2022	0975- 413X	www.derpharmachemica. com	https://www.derpharmachemica .com/pharma-chemica/in-silico- molecular-modeling-study-on- isatin-derivatives-as-anticovid- agents-based-on-qsar-and- docking-analysis-87082.html	Scopus



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		(J. Graham)	Ravina M.							
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	3.	tubers for quality	Ennus T.		Journal of					
		control	Tamboli, Amir		Green		0973-	https://www.greenpharma	https://doi.org/10.22377/ijgp.v1	
		assessment	R. Tamboli	Pharmacy	Pharmacy	2022	8258	cy.info/index.php/ijgp	6i1.3223	web of science
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Γ		Simultaneous								
		Estimation of								
		Atorvastatin and								
		Aspirin by Dual	Shailaja P.							
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	4.	Spectrophotometri	H.Momin,						NAL/issue71/ISSUE%2071%2	
		c Method from	Sneha R.		Indian Journal				0-%20APR%202022%20-	
		Tablet Dosage	Jagtap ,Rajesh		of Natural		0976-	https://tnsroindia.org.in/jo	%20FULL%20TEXT%20PAR	
		Form	S. Jagtap	Pharmacy	Sciences	2022	0997	urnals.html	<u>T%201.pdf</u>	web of science
		Formulation and								
		assessment of								
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		Candesartan			Research			https://www.researchgate.		Scopus
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		from their circular	Swapnil S.		Pharmacy and		2348-	Journal-of-Pharmacy-and-	https://rjptonline.org/AbstractV	
		agglomerates	Patil	Pharmacy	Technology	2022	6465	<u>Technology-0974-3618</u>	iew.aspx?PID=2022-15-2-62	
L		T 1								
		Formulation,	Manjiri A.							
		characterization	Rajmane,							
		and evaluation of	Yasmin H.							
	6.	in vitro	Momin,							
	0.	antioxidant	·					http://www.ulcoorpublicat		
		potential of	Rajendra C.		1 6		2270	http://www.ukaazpublicat	1 //1 1 //0.01055/	
		melatonin and	Doijad,Veeren		Annals of		2278-	ions.com/publications/ind	http://dx.doi.org/10.21276/ap.2	
			dra C.Yeligar	Pharmacy	Phytomedicine	2021	9839	<u>ex.php</u>	<u>021.10.2.44</u>	UGC
1		quercetin loaded			1					



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	liposomes								
7.	An Overview on Liposomes as A Novel Drug Delivery System	Swapnil S. Patil	Pharmacy	Journal of Emerging Technologies and Innovative Research	2021	2349- 5162	https://jetir.org/?gclid=Cj wKCAiAioifBhAXEiwA pzCztpGa7y1r0qEJdvPe- rOBgRK7l8SW010MzS8 16yxsVAWErb7ZfSoBdh oCzaQQAvD_BwE	https://www.jetir.org/view?pap er=JETIR2112161	UGC
8.	Evaluation of potential in vitro anticancer and antimicrobial activities of synthesized 5-mercapto-4-substituted 1, 2, 4 triazole derivatives	Shailaja P. Desai, Yasmin H. Momin, Sneha T. Taralekar, Yuvraj D. Dange, Sneha R. Jagtap ,Harshad P. Khade	Pharmacy	Annals of Phytomedicine	2021	2278- 9839	http://www.ukaazpublicat ions.com/publications/ind ex.php	http://dx.doi.org/10.21276/ap.2 021.10.2.36	UGC
9.	Evaluation of CNS stimulating activity of hydroalcoholic extract of Brassica oleracea L.var. italica in laboratory animals	Guruprasad V. Sutar, Sachin J. Sajane, Sneha T. Taralekar, Prakash I. Nargatti	Pharmacy	Annals of Phytomedicine	2021	2278- 9839	http://www.ukaazpublicat ions.com/publications/	http://www.ukaazpublications.c om/publications/wp- content/uploads/2022/01/Vol10 No2_22.pdf	UGC



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#### **AY-2020-21**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Yea r of publ	ISSN number	_	nition in UGC enlistment of t Object Identifier (DOI numbe	
			teacher		icati on		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Design and Synthesis of 1, 3, 4-Thiadiazoles as Anti- inflammatory Candidate	Satwashila S.Kadam, Harshad P.Khade, Pankaj A. Jadhav, Rupali P.Lade	Pharmacy	International Journal of Biology, Pharmacy and Allied Sciences	2021	2277-4998	https://www.ijbpas.com	https://ijbpas.com/pdf/2021/Dece mber/MS_IJBPAS_2021_DEC_S PCL_1019.pdf	UGC
2.	Effect of polymers and process parameters in augmenting the compactability and dissolution behaviour of oxcarbazepine spherical agglomerates	Sandip M. Honmane, Atul Kadam, Sujata Choudhari, Raviraj Patil, Siddique Akber Ansari, Vinod Gaikwad	Pharmacy	Journal of Drug Delivery Science and Technology	2021	1773-2247	https://www.sciencedire ct.com/journal/journal- of-drug-delivery- science-and-technology	https://doi.org/10.1016/j.jddst.202 1.102578	web of science & Scopus



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3.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; antioxidant, anti- inflammatory and stability studies: PART II	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3970	web of science & UGC
4.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; physicochemical, computational and Proton NMR studies: PART I	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3973	web of science & UGC
5.	Ameliorated solubility and dissolution of Flurbiprofen using solubilizerSepitr ap 80 and Sepitrap 4000	Sneha R. Jagtap, Chandrakant S. Madgum, Rajesh S. Jagtap	Pharmacy	Research Journal of Pharmacy and Technology	2021	0974-3618	https://rjptonline.org/H ome.aspx	http://dx.doi.org/10.5958/0974- 360X.2021.00005.6	Scopus & UGC
6.	Evaluation of Nootropic Activity of Limonia Acidissima Against Scopolamine- Induced Amnesia in Rats	Kailas K. Mali, Guruprasad V. Sutar, Remeth J. Dias, Omkar A. Devade	Pharmacy	Turkish Journal of Pharmaceuti cal Sciences	2021	2148-6247	https://www.turkjps.org	https://dx.doi.org/10.4274%2Ftjps .galenos.2019.30316	Scopus



7.	Forced Degradation Study - A New Approach For Stress Testing Of Drug Substances And Drug Products	Ashish K. Mullani , Prakash I. Nargatti	Pharmacy	International Journal of Pharmaceuti cal Sciences and Research	2020	2320-5148	https://ijpsr.com/bft- article/forced- degradation-study-a- new-approach-for- stress-testing-of-drug- substances-and-drug- products/	http://dx.doi.org/10.13040/IJPSR. 0975-8232.12(5).2683-91	web of science & Scopus
8.	Formulation and evaluation of immune-supplementary nutritional granules	Deepa S. Yadav, Ennus T. Tamboli , Rukaiya M. Mulani	Pharmacy	International Journal of Institutional Pharmacy and Life Sciences	2020	2249-6807	https://portal.issn.org/re source/ISSN/2249-6807	http://www.ijipls.com/uploaded/journal_files/201219051243.pdf	web of science & Scopus
9.	Bimetallic Ni-Pd synergism Mixed metallic catalysis of Mizoroki Heck Reaction & Suzuki - Miyaura Coupling of Aryl Bromide	Abhijit A. Kashid , Dharmaraj J. Patil, Ramling D.Mali, , Suresh Iyer	Pharmacy	Catalysis Latters	2020	1572-879X	https://www.springer.co m/journal/10562	https://doi.org/10.1007/s10562- 020-03330-9	Scopus
10.	Isolation and characterization  of Salaciachinensis and its evaluation of antioxidant activity	Amir R. Tamboli , A.G. Namdeo	Pharmacy	International Journal of Pharmacogn osy	2020	2394-5583	https://ijpjournal.com/b ft-article/curcumin-a- review-on- neuroprotection/	http://dx.doi.org/10.13040/IJPSR. 0975-8232.IJP.7(5).126-32	web of science & Scopus



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11.	Sporoplleinin: The Ground Discussion	Nimish S. Khandekar, Rajesh S. Jagtap, Sachin J. Sajane, Sneha	Dharmaay	Research Journal of Pharmacy and	2020	0974-3618	https://rjptonline.org/H	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-3-87	Saamus
11.	Discussion	R. Jagtap	Pharmacy	Technology	2020	0974-3018	<u>ome.aspx</u>	w.aspx /PID=2020-13-3-87	Scopus
				International Journal of				https://ijppr.humanjournals.com/	
	A Case study on			Pharmacy				wp-content/uploads/2020/04/4-A-	
	Issues in			and				CASE-STUDY-ON-ISSUES-IN-	
	Pharmaceutical			Pharmaceuti			https://ijppr.humanjour	PHARMACEUTICAL-	Pub Med&
12.	Marketing	Swapnil S. Patil	Pharmacy	cal Research	2020	2349-7203	nals.com/	MARKETING.pdf	Google scholar



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#### AY-2019-20

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Year of public	ISSN number	_	nition in UGC enlistment of t Object Identifier (DOI numbe	
			teacher		ation		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Formulation And Evaluation Of Groundnut Oil- Cake Based Protein Powder As Potential Alternative For Dietary Supplement	Nimish S.Khandekar , Rajesh S. Jagtap, Sneha R.Jagtap, Ganesh D.Mote	Pharmacy	International Journal of Food Science & Technology	2020	1365-2621	https://ifst.onlinelibrary .wiley.com/journal/136 52621	http://www.tjprc.org/publishpaper s/2-30-1604035191- IJFSTDEC20203.pdf	UGC
2.	Polymeric Nanosuspension Loaded Oral Thin Films of Flurbiprofen: Design, Development and In Vitro Evaluation	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-4-53	Scopus



3.	Gas chromatography- Mass Spectrometry analysis of Chloroform extract of Cocciniagrandis Voigt	Yasmin H.Momin	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://doi.org/10.5958/0974- 360X.2020.01027.6	Scopus
4.	Development and Optimization of Capecitabine loaded Nanoliposomal System for Cancer Delivery	Sandip M. Honmane, Sagar M.Chimane, Sandip A.Bandgar, Shitalkumar S. Patil	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2020	0019-5464	https://www.ijper.org/	http://dx.doi.org/10.5530/ijper.54. 2.43	Scopus
5.	Design and Evaluation of topical solid dispersion composite of voriconazole for the treatment of ocular keratitis.	Monali Patil, Swati Waydande , Pravin K. Pawar	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://pubmed.ncbi.nl m.nih.gov/31462154/	https://doi.org/10.4155/tde-2019- 0021	scopus
6.	Recent Trends in Antifungal Agents: A reference to formulation, characterization and applications.	Kajal Pawar, Rutuja Gavadhe, Swati Waydande , Pravin K. Pawar	Pharmacy	Drug Delivery Letters	2019	2210-304X	https://benthamscience. com/public/journals/dru g-delivery-letters	https://doi.org/10.2174/22103031 09666190508082009	scopus



7.	Formulation and evaluation of spherical agglomerates of candesartan cilexetil by solvent change method	Swapnil S. Patil., Niranjan V. Patil.	Pharmacy	Journal of Emerging Technologie s and Innovative research	2020	2231-5705	https://ajptonline.com/ AbstractView.aspx?PID =2016-6-4-4	https://doi.org/10.5958/2231- 5713.2016.00032.5	UGC
8.	A review: Regulatory Requirements of Drug Master File in Context to Ghana	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	Indo American Journal of Pharmaceuti cal Research	2019	2231-6876	https://zenodo.org/record/3463964/export/geojson	https://zenodo.org/badge/DOI/10. 5281/zenodo.3463964.svg	Google scholar
9.	Formulation, Optimization and In Vitro Evaluation of Polymeric Nanosuspension of Flurbiprofen	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455-3891	https://innovareacademics.in/journals/index.php/ajpcr/article/view/35670	https://doi.org/10.22159/ajpcr.201 9.v12i11.35670	Scopus & UGC
10.	Design, Development and Characterization of Ketorolac Tromethamine Nanosuspension Loaded In-Situ Mucoadhesive Ocular Gel	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250-1177	https://jddtonline.info/i ndex.php/jddt	https://jddtonline.info/index.php/jddt/article/view/3227	UGC ,Google scholar



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11.	Influence of water-soluble polymers on Epalrestat ternary complexation by kneading	Sneha R. Jagtap, Chandrakant S.Magdum	Pharmacy	Research Journal of Pharmacy and Technology	2019	0974-3618	https://www.rjptonline.	https://doi.org/10.5958/0974- 360X.2019.00614.0	scopus
12.	Design, Development and Characterization of Ketorolac Tromethamine Polymeric Nanosuspension	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://www.future- science.com/journal/tde	https://doi.org/10.4155/tde-2019- 0045	scopus



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# **AY-2018-19**

Sr. no	Title of paper	Name of the author/s	Departm ent of the teacher	Name of journal	Yea r of publ icati on	ISSN numbe r	the journal  abstract of the article  Webpag  UGC (  list/Sco  Web  Science		journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Myanmar Cosmetic Market: Current and Future Prospects.	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	World Journal of Pharmaceuti cal Research	2019	2277– 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15672 35263.pdf	Google scholar
2.	Antidiabetic and Antioxidant Activity of Coccineagrand is Voigt Stem Extract in Streptozotocin Induced Diabetic Rats	Yasmin H. Momin, Veerendra C. Yeligar	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250- 1177	https://jddtonline.info/i ndex.php/jddt	https://doi.org/10.22270/jddt.v9i4- A.3438	UGC &Google scholar



3.	Meloxicam- Pectin-β- Cyclodextin ternary complex by kneading for enhancement of solubility and dissolution rate.	Rajesh S. Jagtap , Shrinivas K. Mohite	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455- 3891	https://innovareacade mics.in/journals/index. php/ajpcr	https://doi.org/10.22159/ajpcr.2019.v1 2i4.32126	Google scholar
4.	Lung delivery of nanoliposomal salbutamol sulphate dry powder inhalation for facilitated asthma therapy	Sandip M.Honmane , Ashok A. Hajare , Harinath N.More, Riyaz A. Osmani, Sachin S. Salunkhe	Pharmacy	Journal of liposome Research	2019	1532- 2394	https://www.tandfonline.com/toc/ilpr20/current	https://doi.org/10.1080/08982104.201 8.1531022	web of science
5.	Formulation and evaluation of fast dissolving buccalflims containing vildagliptin	Savita V. Pol, Rajesh S. Jagtap, Rajendra C. Doijad, Sneha R. Jagtap	Pharmacy	American journal of Pharmacy & health research	2018	2321– 3647	https://www.ajphr.com	http://ajphr.com/ajphrfiles/uploaddir/ AJPHR-609003.pdf	Google scholar
6.	Enhancement of solubility & dissolution rate of Nifedipine by using novel solubilizer	Rajesh S. Jagtap, Rajendra C. Doijad , Shrinivas K. Mohite	Pharmacy	Journal of Drug Delivery and Therapeutics	2018	2250- 1177	https://jddtonline.info/i ndex.php/jddt	https://doi.org/10.22270/jddt.v8i5- s.2041	UGC &Google scholar



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	sepitrap-80 & sepitrap-4000								
7.	Solubility Enhancement Technique: A Review	Sneha R. Jagtap, Chandrakant S. Magdum, Dhanraj R. Jadge, Rajesh S. Jagtap	Pharmacy	Journal of Pharmaceuti cal Sciences & Research	2018	0975- 1459	https://www.jpsr.phar mainfo.in/	https://www.jpsr.pharmainfo.in/Documents/Volumes/vol10Issue09/jpsr10091818.pdf	Scopus & UGC



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# **AY-2017-18**

Sr. no	Title of paper	Name of the author/s	Departm ent of the teacher	Name of journal	Year of publi catio n	ISSN num ber	C	journal abstract of the article	
1.	Heating the matrix tablets of Aceclofenac above glass transition temperature of the polymer to achieve sustained release.	Suraj N. Pattekari	Pharmacy	Pharma Science Monitor	2018	0976- 7908	https://www.pharmasm.co m/	https://web.p.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=09769242&AN=128874251&h=Mn23ik1pubuHcs%2fFuHiqcb%2bTPLeInr61WnT11j9iIuOGDcSc2nMV1kOmV%2bifjS2YA%2f%2fpj0bbEntUnegc%2fBzgbQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d09769242%26AN%3d128874251	Google scholar



2.	General consideration of design and development of dosage forms: pre-formulation review	Sandip M. Honmane, Yuvraj D. Dange, Riyaz A. Osmani, Dhanraj R. Jadge	Pharmacy	Asian Journal of Pharmaceuti cs	2017	1998- 409x	https://www.asiapharmace utics.info/index.php/ajp/ind ex	https://doi.org/10.22377/ajp.v11i03 .1448	web of science,UGC
3.	Development and Validation of UV- Spectrophotomet ric Method for Estimation of Metformin in Bulk and Tablet Dosage Form	Yuvraj D. Dange, Sandip M. Honmane, Somnath D. Bhinge, Vijay R. Salunkhe, Dhanraj R. Jadge	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2017	0019- 5464	https://www.ijper.org/	https://www.ijper.org/sites/default/files/InJPhaEduRes_51_4s_754.pdf	web of science, scopus
4.	Solubility and dissolution enhancement of a bcs class ii drug by cogrinding with superdisintegrant s	Suraj N. Pattekari, Ajit S. Kulkarni	Pharmacy	Indi- American Journal of Pharmaceuti cal Research	2017	2231- 6876	https://www.iajpr.com/	https://zenodo.org/record/2526079 #.Y-NFjaBBzIV	Google scholar
5.	Formulation and Evaluation of Particulate Nasal Drug Delivery system for the Treatment of Migraine.	Jadhav V. V. Jagtap R.S., Doijad R. C., Desai J. R., Pol S. V., Pawar J. D., Jagtap S. R. Shete A. S.	Pharmacy	Journal of Biomedical And Pharmaceuti cal Research	2017	2279 - 0594	https://www.jbpr.in/index. php/jbpr	https://jbpr.in/index.php/jbpr/article/view/17	Index copernicus international
	Nasal Drug Delivery System:	Jadhav VV, Jagtap RS,	Pharmacy	World Journal of	2017	2277–	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15	Google scholar



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6.	Route for Braine Targetting	Doijad RC, Desai JR, Pawar JD, Pol SV, Waychal AA and Jagtap SR.		Pharmaceuti cal Research		7105		<u>02946936.pdf</u>	
7.	Proniosomes: Penetration Enhancers in Transdermal Drug Delivery System	Jitendra R. Desai,Rajesh S. Jagtap , Rajendra C. Doijad , Savita V.Pol, Sneha R. Jagtap	Pharmacy	World Journal of Pharmaceuti cal Research	2017	2277– 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15 01482984.pdf	Google scholar
8.	Liquisolid Compacts: A Promising Approach For Solubility Enhancement	Pawar JD, Jagtap RS, Doijad RC, Pol SV, Desai JR, Jadhav VV, and Jagtap SR.	Pharmacy	Journal of Drug Delivery and Therapeutics	2017	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v7i4. 1466	Google scholar
9.	Nanotecnology, Nanodevice Drug Delivery Sytem: A Review	Yuvraj D.Dange ,Sandip M. Honmane , Pramod A. Patil , Dhanraj R. Jadge , U.T.Gaikwad	Pharmacy	Asian Journal of Pharmacy and Technology	2017	2231- 5713	https://ajptonline.com/	https://doi.org/10.5958/2231- 5713.2017.00010.1	Google scholar
	Review on Fast Dissolving Buccal Film : An	Pol SV, Jagtap RS, Doijad RC, Desai JR,	Pharmacy	International Journal of Innovative	2017	2456 – 2165	https://ijisrt.com/submit- manuscript?gclid=CjwKC AiAioifBhAXEiwApzCztp	https://ijisrt.com/wp- content/uploads/2017/08/Review- on-Fast-Dissolving-Buccal-Film-	Google scholar



# **Annasaheb Dange College of B. Pharmacy, Ashta**



Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

	Emergency	Pawar JD,	Science and	cpJdFZusF8-nHsC-	An-Emergency-Treatment.pdf	
	Treatment	Jadhav VV	Research	7BVdlcDhUTlFfULUwCQ		
		,Jagtap SR	Technology	FGEAvMcN7aQt9ZuVRo		
				Cev8QAvD BwE		
10.						



# Annasaheb Dange College of B. Pharmacy, Ashta

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# **DVV Clarification Query 2**

Sr.no.	Name of P	Name of Particular DVV Query											
2.	(Provide the link to the journal website.)												
<b>Justification</b>													
The links are lar	The links are landing to the journal website given below in the template Academic Year wise												
1	Academic Year 21-22	Page no. 22-24	View Document										
2	Academic Year 20-21	Page no 25-28	View Document										
3	Academic Year 19-20	Page no. 29-32	View Document										
4	Academic Year 18-19	Page no. 33-35	<u>View Document</u>										
5	Academic Year 17-18	Page no. 36-39	View Document										

**Back to DVV Clarification Index** 



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Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

# Detailed summary for-The links are landing to journal website are given below

#### **AY-2021-22**

Sr. no	Title of paper	Name of the author/s	Depart ment of the	Name of journal	Year of public	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		ation		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/We b of Science/other, mention
1.	Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects	Sandip M. Honmane	Pharmacy	OpenNano	2022	2352- 9520	https://www.sciencedirec t.com/journal/opennano	https://doi.org/10.1016/j.onan o.2022.100059	Scopus & UGC
2.	In silico molecular modeling study on Isatin derivatives as anti covid agents based on Qsar and molecular docking	Ganesh D.Mote, Shubhangi S. Kharat ,Shubhangi S.Savale, Aditya A. Bandgar	Pharmacy	Der pharma chemica	2022	0975- 413X	www.derpharmachemica .com	https://www.derpharmachemi ca.com/pharma-chemica/in- silico-molecular-modeling- study-on-isatin-derivatives- as-anticovid-agents-based- on-qsar-and-docking- analysis-87082.html	Scopus



3.	Pharmacognostical evaluation of Arisaema murrayi (J. Graham) Hook. leaves and tubers for quality control assessment	Ravina M. Kamble, Ennus T. Tamboli, Amir R. Tamboli	Pharmacy	International Journal of Green Pharmacy	2022	0973- 8258	https://www.greenpharmacy.info/index.php/ijgp	https://doi.org/10.22377/ijgp. v16i1.3223	web of science
4.	Simultaneous Estimation of Atorvastatin and Aspirin by Dual Wavelength Spectrophotometric Method from Tablet Dosage Form	Shailaja P. Desai, yasmin H.Momin, Sneha R. Jagtap ,Rajesh S. Jagtap	Pharmacy	Indian Journal of Natural Sciences	2022	0976- 0997	https://tnsroindia.org.in/j ournals.html	https://tnsroindia.org.in/JOU RNAL/issue71/ISSUE%2071 %20-%20APR%202022%20- %20FULL%20TEXT%20PA RT%201.pdf	web of science
5.	Formulation and assessment of quick dissolving tablet of Candesartan cilexetil arranged from their circular agglomerates	Swapnil S. Patil	Pharmacy	Research Journal of Pharmacy and Technology	2022	2348- 6465	https://www.researchgat e.net/journal/Research- Journal-of-Pharmacy- and-Technology-0974- 3618	https://rjptonline.org/Abstract View.aspx?PID=2022-15-2- 62	Scopus
6.	Formulation, characterization and evaluation of in vitro antioxidant potential of melatonin and quercetin loaded liposomes	Manjiri A. Rajmane, Yasmin H. Momin , Rajendra C. Doijad,Vee rendra C.Yeligar	Pharmacy	Annals of Phytomedicine	2021	2278- 9839	http://www.ukaazpublica tions.com/publications/in dex.php	http://dx.doi.org/10.21276/ap .2021.10.2.44	UGC



# Annasaheb Dange College of B. Pharmacy, Ashta

Ashta, Tal: Walwa, I	Dist: Sangli.	Maharashtra.	India – 416301
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7.	An Overview on Liposomes as A Novel Drug Delivery System	Swapnil S. Patil	Pharmacy	Journal of Emerging Technologies and Innovative Research	2021	2349- 5162	https://jetir.org/?gclid=C jwKCAiAioifBhAXEiw ApzCztpGa7y1r0qEJdvP e- rOBgRK7l8SW010MzS 816yxsVAWErb7ZfSoB dhoCzaQQAvD_BwE	https://www.jetir.org/view?p aper=JETIR2112161	UGC
8.	Evaluation of potential in vitro anticancer and antimicrobial activities of synthesized 5-mercapto-4-substituted 1, 2, 4 triazole derivatives	Shailaja P. Desai, Yas min H. Momin, Sneha T. Taralekar, Yuvraj D. Dange, Sneha R. Jagtap ,Harshad P. Khade	Pharmacy	Annals of Phytomedicine	2021	2278- 9839	http://www.ukaazpublica tions.com/publications/in dex.php	http://dx.doi.org/10.21276/ap .2021.10.2.36	UGC
9.	Evaluation of CNS stimulating activity of hydroalcoholic extract of Brassica oleracea L.var. italica in laboratory animals	Guruprasad V. Sutar, Sachin J. Sajane, Sneha T. Taralekar, Prakash I. Nargatti	Pharmacy	Annals of Phytomedicine	2021	2278- 9839	http://www.ukaazpublica tions.com/publications/	http://www.ukaazpublication s.com/publications/wp- content/uploads/2022/01/Vol 10No2_22.pdf	UGC



# **Annasaheb Dange College of B. Pharmacy, Ashta**



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#### AY-2020-21

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Yea r of publ	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		icati on		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Design and Synthesis of 1, 3, 4-Thiadiazoles as Anti- inflammatory Candidate	Satwashila S.Kadam, Harshad P.Khade, Pankaj A. Jadhav, Rupali P.Lade	Pharmacy	International Journal of Biology, Pharmacy and Allied Sciences	2021	2277-4998	https://www.ijbpas.com	https://ijbpas.com/pdf/2021/Dece mber/MS_IJBPAS_2021_DEC_S PCL_1019.pdf	UGC
2.	Effect of polymers and process parameters in augmenting the compactability and dissolution behaviour of oxcarbazepine spherical agglomerates	Sandip M. Honmane, Atul Kadam, Sujata Choudhari, Raviraj Patil, Siddique Akber Ansari, Vinod Gaikwad	Pharmacy	Journal of Drug Delivery Science and Technology	2021	1773-2247	https://www.sciencedire ct.com/journal/journal- of-drug-delivery- science-and-technology	https://doi.org/10.1016/j.jddst.202 1.102578	web of science & Scopus



3.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; antioxidant, anti- inflammatory and stability studies: PART II	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3970	web of science & UGC
4.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; physicochemical, computational and Proton NMR studies: PART I	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3973	web of science & UGC
5.	Ameliorated solubility and dissolution of Flurbiprofen using solubilizerSepitr ap 80 and Sepitrap 4000	Sneha R. Jagtap, Chandrakant S. Madgum, Rajesh S. Jagtap	Pharmacy	Research Journal of Pharmacy and Technology	2021	0974-3618	https://rjptonline.org/H ome.aspx	http://dx.doi.org/10.5958/0974- 360X.2021.00005.6	Scopus & UGC
6.	Evaluation of Nootropic Activity of Limonia Acidissima Against Scopolamine- Induced Amnesia in Rats	Kailas K. Mali, Guruprasad V. Sutar, Remeth J. Dias, Omkar A. Devade	Pharmacy	Turkish Journal of Pharmaceuti cal Sciences	2021	2148-6247	https://www.turkjps.org	https://dx.doi.org/10.4274%2Ftjps .galenos.2019.30316	Scopus



	Forced								
	Degradation						https://ijpsr.com/bft-		
	Study - A New			International			article/forced-		
	Approach For			Journal of			degradation-study-a-		
	Stress Testing Of	Ashish K.		Pharmaceuti			new-approach-for-		
7.	Drug	Mullani,		cal Sciences			stress-testing-of-drug-		
	Substances And	Prakash I.		and			substances-and-drug-	http://dx.doi.org/10.13040/IJPSR.	web of science
	Drug Products	Nargatti	Pharmacy	Research	2020	2320-5148	products/	0975-8232.12(5).2683-91	& Scopus
	Ü	1 (411 841)	1 1101 11100	11000011		2020 01:0	<u>products</u>	37,6 3262112(6),2336 31	
	Formulation and			International					
	evaluation of	Deepa S.		Journal of					
	immune-	Yadav, Ennus		Institutional					
	supplementary	T. Tamboli ,		Pharmacy					
	nutritional	Rukaiya M.		and Life			https://portal.issn.org/re	http://www.ijipls.com/uploaded/j	web of science
8.	granules	Mulani	Pharmacy	Sciences	2020	2249-6807	source/ISSN/2249-6807	ournal_files/201219051243.pdf	& Scopus
	Bimetallic Ni-Pd								
	synergism								
	Mixed metallic								
	catalysis of	Abhijit A.							
	Mizoroki Heck	Kashid,							
	Reaction &	Dharmaraj J.							
9.	Suzuki - Miyaura	Patil, Ramling							
9.	Coupling of Aryl	D.Mali, ,		Catalysis			https://www.springer.co	https://doi.org/10.1007/s10562-	
	Bromide	Suresh Iyer	Pharmacy	Latters	2020	1572-879X	<u>m/journal/10562</u>	<u>020-03330-9</u>	Scopus
	Isolation and								
	characterization								
	of								
	Salaciachinensis								
	and its			International			https://ijpjournal.com/b		
10.	evaluation of	Amir R.		Journal of			ft-article/curcumin-a-		
	antioxidant	Tamboli , A.G.		Pharmacogn			review-on-	http://dx.doi.org/10.13040/IJPSR.	web of science
	activity	Namdeo	Pharmacy	osy	2020	2394-5583	neuroprotection/	0975-8232.IJP.7(5).126-32	& Scopus
	activity	TVaillueu	1 Hai Hacy	Osy	2020	439 <del>4</del> -3363	ileuroprotection/	0913-0232.13F.1(3).120-32	& Scopus



# Annasaheb Dange College of B. Pharmacy, Ashta



Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

11.	Sporoplleinin: The Ground Discussion	Nimish S. Khandekar, Rajesh S. Jagtap, Sachin J. Sajane, Sneha R. Jagtap	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-3618	https://rjptonline.org/H ome.aspx	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-3-87	Scopus
12.	A Case study on Issues in Pharmaceutical Marketing	Swapnil S. Patil	Pharmacy	International Journal of Pharmacy and Pharmaceuti cal Research	2020	2349-7203	https://ijppr.humanjour nals.com/	https://ijppr.humanjournals.com/ wp-content/uploads/2020/04/4-A- CASE-STUDY-ON-ISSUES-IN- PHARMACEUTICAL- MARKETING.pdf	Pub Med& Google scholar



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# **AY-2019-20**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Year of public	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		ation		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Formulation And Evaluation Of Groundnut Oil- Cake Based Protein Powder As Potential Alternative For Dietary Supplement	Nimish S.Khandekar , Rajesh S. Jagtap, Sneha R.Jagtap, Ganesh D.Mote	Pharmacy	International Journal of Food Science & Technology	2020	1365-2621	https://ifst.onlinelibrary .wiley.com/journal/136 52621	http://www.tjprc.org/publishpaper s/2-30-1604035191- IJFSTDEC20203.pdf	UGC
2.	Polymeric Nanosuspension Loaded Oral Thin Films of Flurbiprofen: Design, Development and In Vitro Evaluation	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-4-53	Scopus



3.	Gas chromatography- Mass Spectrometry analysis of Chloroform extract of			Research Journal of Pharmacy					
	Cocciniagrandis Voigt	Yasmin H.Momin	Pharmacy	and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://doi.org/10.5958/0974- 360X.2020.01027.6	Scopus
4.	Development and Optimization of Capecitabine loaded Nanoliposomal System for Cancer Delivery	Sandip M. Honmane, Sagar M.Chimane, Sandip A.Bandgar, Shitalkumar S. Patil	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2020	0019-5464	https://www.ijper.org/	http://dx.doi.org/10.5530/ijper.54. 2.43	Scopus
5.	Design and Evaluation of topical solid dispersion composite of voriconazole for the treatment of ocular keratitis.	Monali Patil, Swati Waydande , Pravin K. Pawar	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://pubmed.ncbi.nl m.nih.gov/31462154/	https://doi.org/10.4155/tde-2019- 0021	scopus
6.	Recent Trends in Antifungal Agents: A reference to formulation, characterization and applications.	Kajal Pawar, Rutuja Gavadhe, Swati Waydande , Pravin K. Pawar	Pharmacy	Drug Delivery Letters	2019	2210-304X	https://benthamscience. com/public/journals/dru g-delivery-letters	https://doi.org/10.2174/22103031 09666190508082009	scopus



# Annasaheb Dange College of B. Pharmacy, Ashta

Ashta, Tal: Walwa, Dist: Sar	gli. Maharashtra.	India – 416301
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7.	Formulation and evaluation of spherical agglomerates of candesartan cilexetil by solvent change method	Swapnil S. Patil., Niranjan V. Patil.	Pharmacy	Journal of Emerging Technologie s and Innovative research	2020	2231-5705	https://ajptonline.com/ AbstractView.aspx?PID =2016-6-4-4	https://doi.org/10.5958/2231- 5713.2016.00032.5	UGC
8.	A review: Regulatory Requirements of Drug Master File in Context to Ghana	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	Indo American Journal of Pharmaceuti cal Research	2019	2231-6876	https://zenodo.org/recor d/3463964/export/geojs on	https://zenodo.org/badge/DOI/10. 5281/zenodo.3463964.svg	Google scholar
9.	Formulation, Optimization and In Vitro Evaluation of Polymeric Nanosuspension of Flurbiprofen	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455-3891	https://innovareacademics.in/journals/index.php/ajpcr/article/view/3567	https://doi.org/10.22159/ajpcr.201 9.v12i11.35670	Scopus & UGC
10.	Design, Development and Characterization of Ketorolac Tromethamine Nanosuspension Loaded In-Situ Mucoadhesive Ocular Gel	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250-1177	https://jddtonline.info/i ndex.php/jddt	https://jddtonline.info/index.php/jddt/article/view/3227	UGC ,Google scholar



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Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

11.	Influence of water-soluble polymers on Epalrestat ternary complexation by kneading	Sneha R. Jagtap, Chandrakant S.Magdum	Pharmacy	Research Journal of Pharmacy and Technology	2019	0974-3618	https://www.rjptonline.	https://doi.org/10.5958/0974- 360X.2019.00614.0	scopus
12.	Design, Development and Characterization of Ketorolac Tromethamine Polymeric Nanosuspension	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://www.future- science.com/journal/tde	https://doi.org/10.4155/tde-2019- 0045	scopus



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# **AY-2018-19**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Yea r of publ	ISSN numbe r	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		icati on		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Myanmar Cosmetic Market: Current and Future Prospects.	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	World Journal of Pharmaceuti cal Research	2019	2277- 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15672 35263.pdf	Google scholar
2.	Antidiabetic and Antioxidant Activity of Coccineagrand is Voigt Stem Extract in Streptozotocin Induced Diabetic Rats	Yasmin H. Momin, Veerendra C. Yeligar	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v9i4- A.3438	UGC &Google scholar



3.	Meloxicam- Pectin-β- Cyclodextin ternary complex by kneading for enhancement of solubility and dissolution rate.	Rajesh S. Jagtap , Shrinivas K. Mohite	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455- 3891	https://innovareacade mics.in/journals/index. php/ajpcr	https://doi.org/10.22159/ajpcr.2019.v1 2i4.32126	Google scholar
4.	Lung delivery of nanoliposomal salbutamol sulphate dry powder inhalation for facilitated asthma therapy	Sandip M.Honmane , Ashok A. Hajare , Harinath N.More, Riyaz A. Osmani, Sachin S. Salunkhe	Pharmacy	Journal of liposome Research	2019	1532- 2394	https://www.tandfonli ne.com/toc/ilpr20/curr ent	https://doi.org/10.1080/08982104.201 8.1531022	web of science
5.	Formulation and evaluation of fast dissolving buccalflims containing vildagliptin	Savita V. Pol, Rajesh S. Jagtap, Rajendra C. Doijad, Sneha R. Jagtap	Pharmacy	American journal of Pharmacy & health research	2018	2321– 3647	https://www.ajphr.com	http://ajphr.com/ajphrfiles/uploaddir/ AJPHR-609003.pdf	Google scholar
6.	Enhancement of solubility & dissolution rate of Nifedipine by using novel solubilizer	Rajesh S. Jagtap, Rajendra C. Doijad , Shrinivas K. Mohite	Pharmacy	Journal of Drug Delivery and Therapeutics	2018	2250- 1177	https://jddtonline.info/i ndex.php/jddt	https://doi.org/10.22270/jddt.v8i5- s.2041	UGC &Google scholar



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Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

	sepitrap-80 & sepitrap-4000								
7.	Solubility Enhancement Technique: A Review	Sneha R. Jagtap, Chandrakant S. Magdum, Dhanraj R. Jadge, Rajesh S. Jagtap	Pharmacy	Journal of Pharmaceuti cal Sciences & Research	2018	0975- 1459	https://www.jpsr.phar mainfo.in/	https://www.jpsr.pharmainfo.in/Documents/Volumes/vol10Issue09/jpsr10091818.pdf	Scopus & UGC



# Annasaheb Dange College of B. Pharmacy, Ashta



Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

# **AY-2017-18**

Sr. no	Title of paper	Name of the author/s	Departm ent of the teacher	Name of journal	Year of publi catio n	ISSN num ber	C	n in UGC enlistment of the Joct Identifier (DOI number)  Link to article/paper/  abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Heating the matrix tablets of Aceclofenac above glass transition temperature of the polymer to achieve sustained release.	Suraj N. Pattekari	Pharmacy	Pharma Science Monitor	2018	0976- 7908	https://www.pharmasm.co m/	https://web.p.ebscohost.com/abstract?direct=true&profile=ehost&scope=site&authtype=crawler&jrnl=09769242&AN=128874251&h=Mn23ik1pubuHcs%2fFuHiqcb%2bTPLeInr61WnT11j9iIuOGDcSc2nMV1kOmV%2bifjS2YA%2f%2fpj0bbEntUnegc%2fBzgbQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d09769242%26AN%3d128874251	Google scholar



# Annasaheb Dange College of B. Pharmacy, Ashta

2.	General consideration of design and development of dosage forms: pre-formulation review	Sandip M. Honmane, Yuvraj D. Dange, Riyaz A. Osmani, Dhanraj R. Jadge	Pharmacy	Asian Journal of Pharmaceuti cs	2017	1998- 409x	https://www.asiapharmace utics.info/index.php/ajp/ind ex	https://doi.org/10.22377/ajp.v11i03 .1448	web of science,UGC
3.	Development and Validation of UV- Spectrophotomet ric Method for Estimation of Metformin in Bulk and Tablet Dosage Form	Yuvraj D. Dange, Sandip M. Honmane, Somnath D. Bhinge, Vijay R. Salunkhe, Dhanraj R. Jadge	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2017	0019- 5464	https://www.ijper.org/	https://www.ijper.org/sites/default/files/InJPhaEduRes_51_4s_754.pd_f	web of science, scopus
4.	Solubility and dissolution enhancement of a bcs class ii drug by cogrinding with superdisintegrant s	Suraj N. Pattekari , Ajit S. Kulkarni	Pharmacy	Indi- American Journal of Pharmaceuti cal Research	2017	2231- 6876	https://www.iajpr.com/	https://zenodo.org/record/2526079 #.Y-NFjaBBzIV	Google scholar
5.	Formulation and Evaluation of Particulate Nasal Drug Delivery system for the Treatment of Migraine.	Jadhav V. V. Jagtap R.S., Doijad R. C., Desai J. R., Pol S. V., Pawar J. D., Jagtap S. R. Shete A. S.	Pharmacy	Journal of Biomedical And Pharmaceuti cal Research	2017	2279 - 0594	https://www.jbpr.in/index.php/jbpr	https://jbpr.in/index.php/jbpr/article/view/17	Index copernicus international
	Nasal Drug Delivery System:	Jadhav VV, Jagtap RS,	Pharmacy	World Journal of	2017	2277-	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15	Google scholar



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6.	Route for Braine Targetting	Doijad RC, Desai JR, Pawar JD, Pol SV, Waychal AA and Jagtap SR.		Pharmaceuti cal Research		7105		<u>02946936.pdf</u>	
7.	Proniosomes: Penetration Enhancers in Transdermal Drug Delivery System	Jitendra R. Desai,Rajesh S. Jagtap , Rajendra C. Doijad , Savita V.Pol, Sneha R. Jagtap	Pharmacy	World Journal of Pharmaceuti cal Research	2017	2277– 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15 01482984.pdf	Google scholar
8.	Liquisolid Compacts: A Promising Approach For Solubility Enhancement	Pawar JD, Jagtap RS, Doijad RC, Pol SV, Desai JR, Jadhav VV, and Jagtap SR.	Pharmacy	Journal of Drug Delivery and Therapeutics	2017	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v7i4. 1466	Google scholar
9.	Nanotecnology, Nanodevice Drug Delivery Sytem: A Review	Yuvraj D.Dange ,Sandip M. Honmane , Pramod A. Patil , Dhanraj R. Jadge , U.T.Gaikwad	Pharmacy	Asian Journal of Pharmacy and Technology	2017	2231- 5713	https://ajptonline.com/	https://doi.org/10.5958/2231- 5713.2017.00010.1	Google scholar
	Review on Fast Dissolving Buccal Film : An	Pol SV, Jagtap RS, Doijad RC, Desai JR,	Pharmacy	International Journal of Innovative	2017	2456 – 2165	https://ijisrt.com/submit- manuscript?gclid=CjwKC AiAioifBhAXEiwApzCztp	https://ijisrt.com/wp- content/uploads/2017/08/Review- on-Fast-Dissolving-Buccal-Film-	Google scholar



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# **DVV Clarification Query 3**

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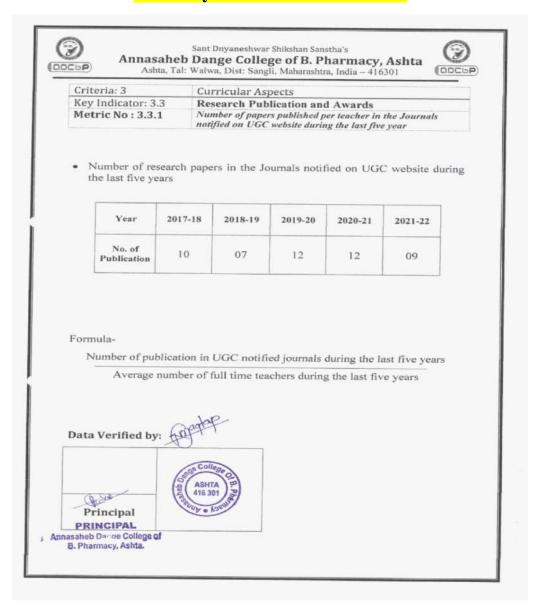
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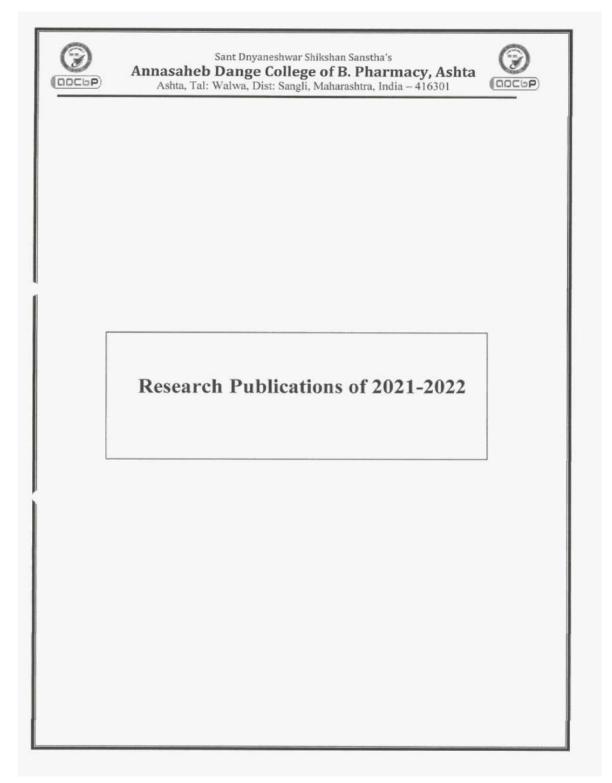




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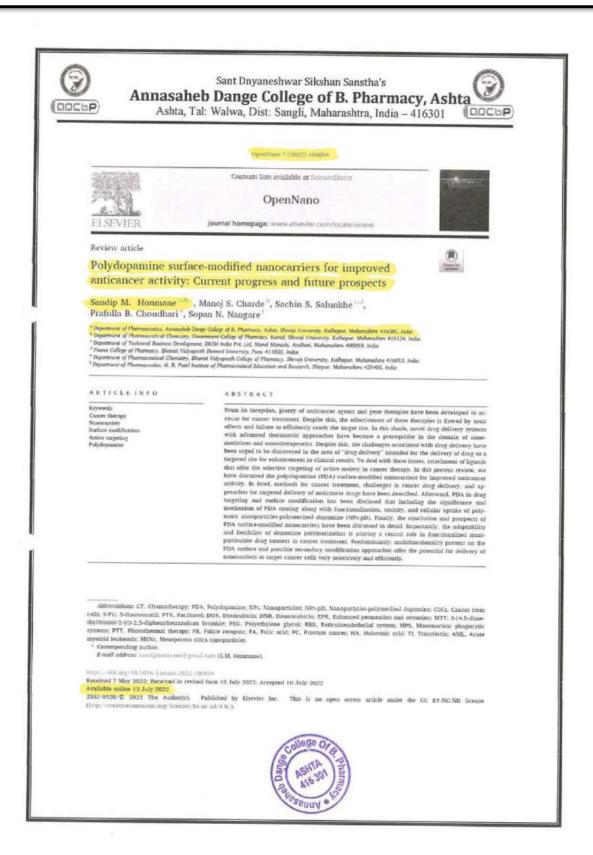
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ISSN 0975-413X CODEN (USA): PCHHAX chape near the polar mach

Der Pharma Chemica, 2022, 14(3): 1-15

In Silico Molecular Modeling Study on Isatin Derivatives as Anti-Covid Agents Based on **Qsar and Docking Analysis** 

Ganesh D. Mote\*\*, Shubhangi S. Savale\*, Shubhangi S. Kharat\*, Aditya A. Bandgar\*

\*Department of Pharmaceutical Chemistry, Annotableb Dange Callege of Pharmacy, Asian, Sangit, Maharasara, India.
\*Department of Pharmaceutics, Annotableb Dange College of Pharmacy, Asian, Sangit, Maharasara, India.

\*Curresponding author: Gonesh D. Mote. Department of Plasmaceutical Chemistry. Annasaheb Dange College of Plasmacy, Aslata. Saugh. Malarastra. India. E-mail: gangalmane/0/0/ii genati.com

Received: 31-Jan-2022, Manuscript no. dpc-22-52922. Editor assigned: 2- Feb -2022, ProQC No. dpc-22-52922. Reviewed: 18- Feb -2022, QC No. dpc-22-52922. Revised: 24- Feb -2022, Manuscript No. dpc-22-52922. Published: 3-Nin -2022, DOI: 10.4172/6975-413X.14.3.1-15

#### ABSTRACT

COVID 19 dreave caused by navel SARS-CoV-LB rapidly infects manuals and causes serious illness and death. The drug development against COVID 19 he a challenging tink as COVID 19 dreave up each rapidly throughout do world. Drug development is a time-construing process. In particular, the manuals are enurged to Drugg drug as earlier as parable, in which drug design is the bee to fast developing drug and of the Tourist and the Particular processes plays a vital function in the viral representation cycle and it is percental target for COVID 19 inhibitor development. Most of the Particular drug processes plays a vital function in the viral representation consideration. The Particular drug development techniques that Particular drug development techniques that Drug ARDS software has the frictive drug development techniques the Drug ARDA males and 3Drug AR EN analysis. We designed 80 to the content and entire molecules from 2D Drug ARDA to recovered through the Lipinski revening criticals for the comparability of drug to the body. Target argues to the Min Processes (2DR) folly were dominated also more checked with target argues by ming V-life MDS software and docking states dock nothware. Docking of these new malesules also more checked with target argues by ming V-life MDS software and docking state constitute shows that one of the hartin derivative neited 2-12. Advan-8-11, product 4-11 electromatics (2DR) advan-8-11, product 4-11 electromatics (2DR) advantable and constitute them decreases reference and the state of the state of the constitute potential has a Bromavir (Dock Score-14 694 kcalmol). This made indicates that Learn decreases potentially act or Anti-SARS-CoV-2 drug.

Keywords: COVID 19: docking studies: Isatin derivative: Main Proteins inhibitor: NCE: QSAR studies

At the end of the year 2019, Coronavirus was identified in Wulam. China. This is a highly pathogenic and transmissible vital infection appeal diroughout the world. It predominantly attacks human respiratory system causing the severe acute respiratory systeme. Based on genetic, the viruses have four genera, Alphis-coronavirus and Beta-coronavirus infect the manufals, and Gamma-coronavirus and Delta-coronavirus infect birds.

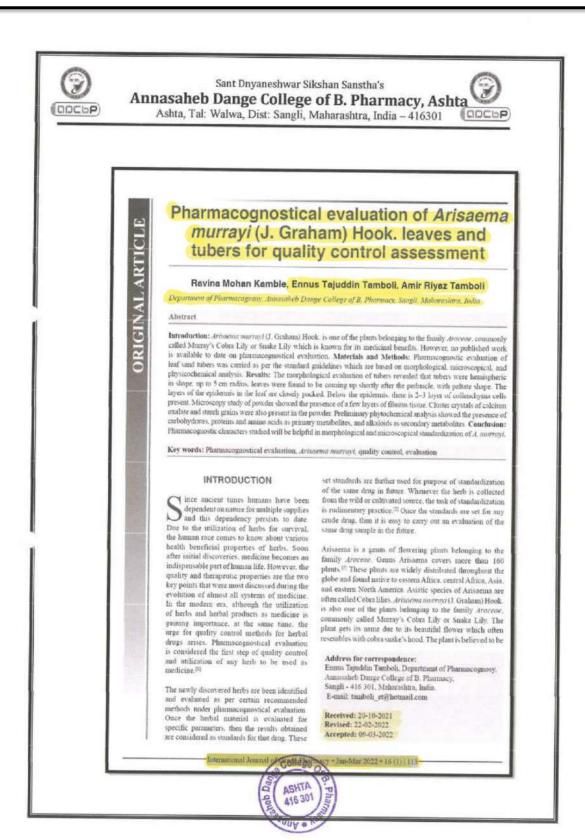
[1]
The turns causing COVID-19 discuss is a spherical enveloped having positive-sense single-stranded RNA associated with a nucleoprotein within a capsid comprised of matrix protein. The envelope bears crossus-shaped glycoprotein projections. Sense economistives also contain a beraugalitation-extense protein 4. The genome contains a unique N- terminal fragment within the apple protein [2]. Also, coronavirus invades the optimisation protein a manage of terminal fragment within the sphe protein [2]. Also, coronavirus invades the optimisation of the safety of

The main protesse enzyme in corona virus participates in assemble and multiplication of the virus. Disrupting this virus's self-replicating machinery can be one of the best targets without consing harm to the host. It has an active site for inhibition. The new chemical entity can interact at this site



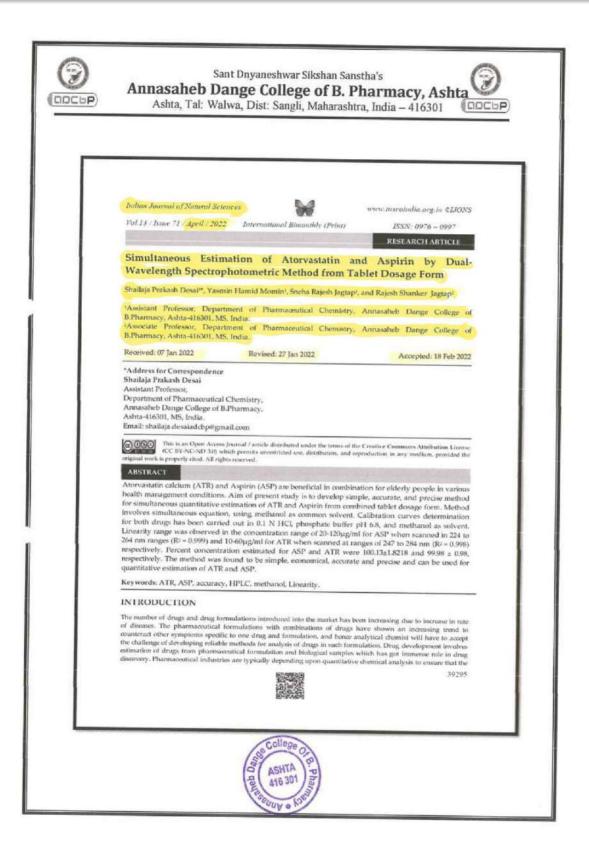


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#### RESEARCH ARTICLE

Formulation and assessment of quick dissolving tablet of Candesartan cilexetil arranged from their circular agglomerates

Mr. Swapnil Shankar Patil\*, Mr. Shashikant S. Upadhye Annasaheb Dange College of B. Pharmacy Ashta. Tal-Walwa Dist-Sangli (MS) 416-301 \*Corresponding Author E-mail: swapnil.patil0707@gmail.compatil.swapniladcbp@gmail.com

#### ABSTRACT:

Candesartan calexetii is water involuble drug which comes under BCS class second category. Drug was used in the treatment of acute and chronic hypertension. The research workgenerally focuses on the solubility enhancement, increasing dissolution behavior, flowability and compressibility of the drug. Tablets and capsule are the solid dosage form mostly used. Spherical agglouerates of Candesartan celevetil were prepared. Candesartan celevetil water insoluble drug was used. With the incorporation of polymer, Agglomerates of such drug was prepared. Fast dissolving tablet was prepared and evaluated. Evaluation parameter like FTIR, DSC was carried out. Precompression parameters like bulk density, tag density, angle of repose, compressibility under was carried out. Post compression parameters like finability, hardness, thickness, disintegration time, wetting time was carried out and evaluated. Effect of different disintegrant like Crospovidene, cross carmellose sodium was studied. From in vitro study it was found that cross carmellose sodium containing batch F3 shows better drug release so it shows enhanced dissolution rate while if cross carmellose sodium level increases thus decreasing their dissolution rate.

KEYWORDS: FTIR, DSC, Disintegrates, Dissolution rate etc.

#### INTRODUCTION:

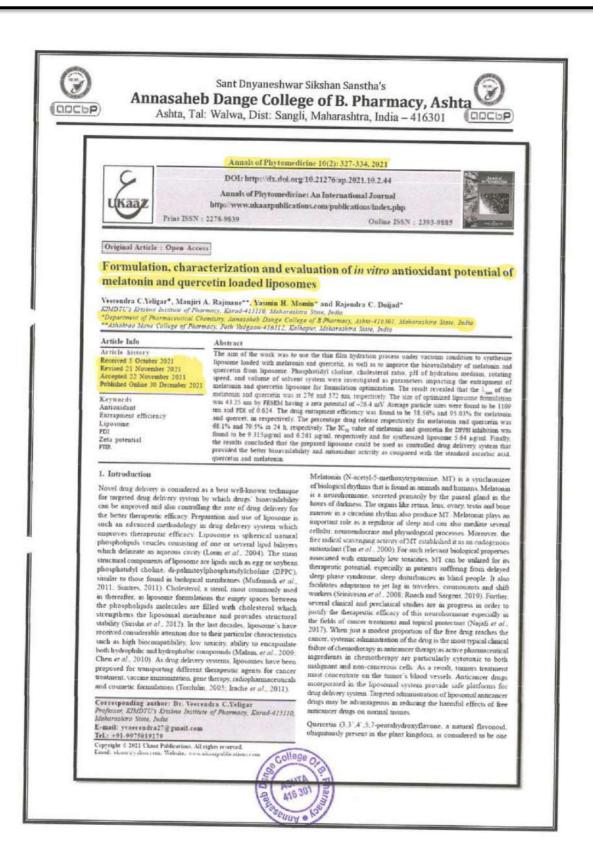
Solid dosage forms are the most common and convenient dosage form. It's having versatile advantages over liquid dosage from The eral route of drug administration is the most common and preferred method of delivery due to convenience and ease of administration. The orally administered drug gets completely absorbs only when they show fair solibility in gastic medium and such drugs show good bioavailability. As about 70% of the human body is made up of water, a drug must be soluble and thus possess an acceptable bioavailability level. The drug in the dosage forms is released and dissolves in the surrounding gastrointestinal fluid to form a solution for easy absorption. Therapeutic effectiveness of a drug depends upon the bioavailability and ultimately upon the solubility of drug molecules. Solubility is one of the important parameter to achieve desired concentration of drug in systemic circulation for pharmacological response to be shown. Currently only 8% of new drug candidates have both high solubility and permembility.

Kawashima et al developed spherical agglomeration as a method of novel particulate design. It is the particle engineering technique by which the crystalization and agglomeration can be carried out simultaneously in one step. 4.5 Spherical Crystallization process transforms the fine crystals obtained during crystallization into spherical agglomerates. Agglomerates formed further improves the flowability and compressibility of pharmaceutical ingredient which enables direct tableting of drug instead of further processing like mixing granulation, sieving, drying etc. 8 There are certain parameters which have to be optimized in order to obtain the maximum amount of spherical crystals. The principle steps involved in the process of spherical crystallization are flocculation zone, zero growth zone, fast growth zone and constant size zone <sup>18</sup>The solvent change method was used in the preparation of spherical agglomerates. Solution of drug in a good solvent is poured into the poor solvent under controlled conditions of temperature and speed to obtain fine crystals. These crystals are agglomerated in the presence of bridging liquid. 8 The poor solvent has miscibility with good





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## AN OVERVIEW ON LIPOSOMES AS A NOVEL DRUG DELIVERY SYSTEM

<sup>1</sup>Mr. Shashikant Upadhye\*, <sup>2</sup>Dr. Srinath Balkundhi, <sup>3</sup>Dr. Abhinandan Patil, <sup>4</sup>Mr. Swapnil Patil <sup>3</sup>Head of Department & PhD Research Scholar, <sup>5</sup>Dean, <sup>5</sup>Associate Professor, <sup>4</sup>Assistant Professor <sup>5</sup>Department of Pharmaceutics

Annasaheb Dange College of B. Pharmacy, Ashra, India & School of Pharmaceutical Sciences, Sanjay Ghodawat University Atigre, Kolhapur, India

#### ABSTRACT

ABSTRACT
The Lipsonnes are the sphere-shaped vesicles consisting of single or more bilayers of phospholipids. These can deliver both hydrophobic & hydrophilic drugs for the antibacterial cancer, immunomodulation, antifungal, ophthalmic, diagnostics, enzymes, vaccines & genetic elements. The lipsonnes are characterized with respect to the physical, chemical & biological parameters. The multilamellar vesicle, the small undamellar vesicle, and the large unilamellar vesicle are the major types of hydrogeness. Lipsonness becomes the control of the large unilamellar vesicle and deliver between the large unilamellar vesicle and deliver the major types of hydrogeness and deliver the large are biocompatible & biodegradable in nature. In this review article the mechanism, structural components, different methods of preparation, evaluation and applications of liposomes are explained.

Keywords: Liposomes, Structural components, Methods of preparation.

INTRODUCTION

The liposomes are concentric vesicles which are spherical in shape and it is derived from 2 Greek words lipos means fat & some means body. In 1961 the Liposome were first made by Bangham et al., it was an accidental discovery in which he scattered in water the phosphatidyl choline molecule, during this he found that a molecule was forming the closed bilayer structure having an aqueous planse which were entrapped by the bilayer of lipid. The Liposome are very useful because they act as the carrier for the variety of drugs having the potential therapeutic action or other properties. The liposomes are the collodal carriers having the size range of 0.01-5 0jum in diameter. The drug encapsulated by the liposome achieve the therapeutic level for longer duration as the drug must first be released from the liposome before the metabolism & excretion. These are small artificial vesicles which are spherical in shape which will be created from the cholesteral & natural phosphotipids which are non-toxic, due to their size & hydrophilic & hydrophobuc character (besides blocompatibility) the liposomes are the promising systems for the delivery of drug. To entrap drugs of both the aqueous & the lipid phase, is the unique ability of the liposomes & it unikes them attractive drug delivery systems for the hydrophilic & hydrophilic & hydrophobuc drugs. The Liposomes are the novel drug delivery system that aims to deliver the drug directly to the site of action. To accommodate both hydrophilic and lipophilic compounds to protect the drug from degradation and release the active ingredients in a controlled manner, they have potential. It is found that glycerol is the backbone of the molecule that's why the phospholipid containing glycerol were found to be the essential component of the liposomal formulation & it represents 505 weights of lipid. [1-7]

#### THE STRUCTURAL COMPONENTS ARE

#### 1) The Phospholipids:

The major structural components of liposome are the Phospholipids. The most common phospholipids used in liposomal preparation are the Phosphatidylcholine (PC). The Phosphatidyl-choline is the amphiphatic molecule which consist of

b) The hydrophobic acyl hydrocarbon chains pair

c) The polar head group which is hydrophilic, phosphocholine

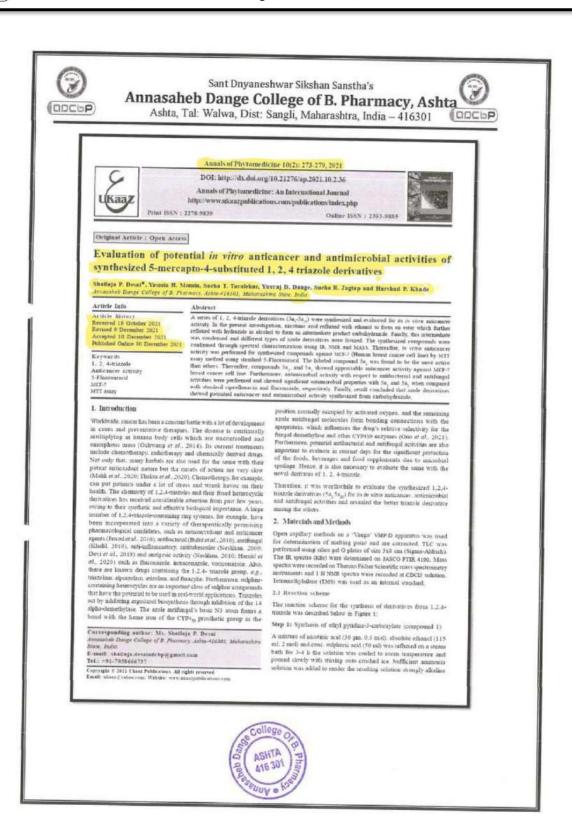
The chemical structure of the naturally occurring Phosphatidylcholine has the glycerol moiety which is attached to 2 acyl chains which may be unsaturated or saturated. The schallity of the liposome membrane depends on the packing of the hydrocarbon chains of a lipid molecules. The nature of the fairly acid in the lipid molecule, such as the number of double bonds in the chain is responsible for the bilayer properties such as the phase behavior & elasticity. The phosphotipads are very abundant in nature & which contains the choline is used for the liposome's preparation. [8-10]

a) The Phosphatidyl ethanolamine[Cephalin]PE
 b) The Phosphatidyl Glycerol [PG]



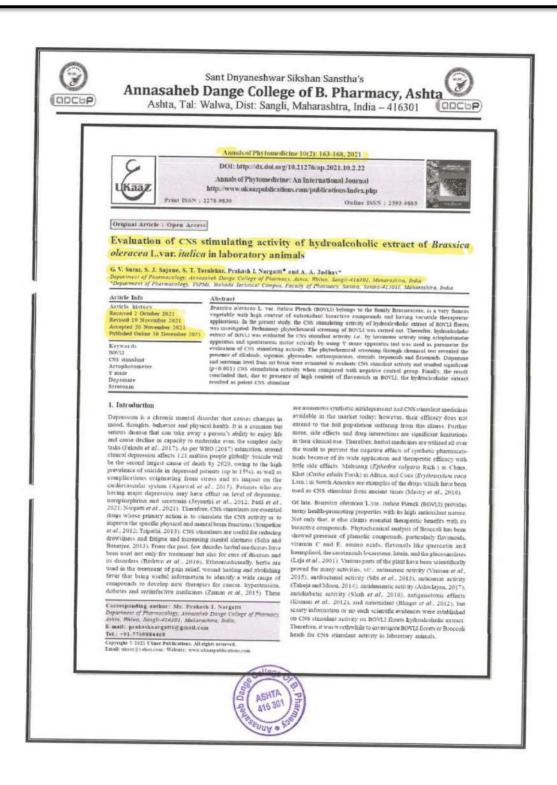


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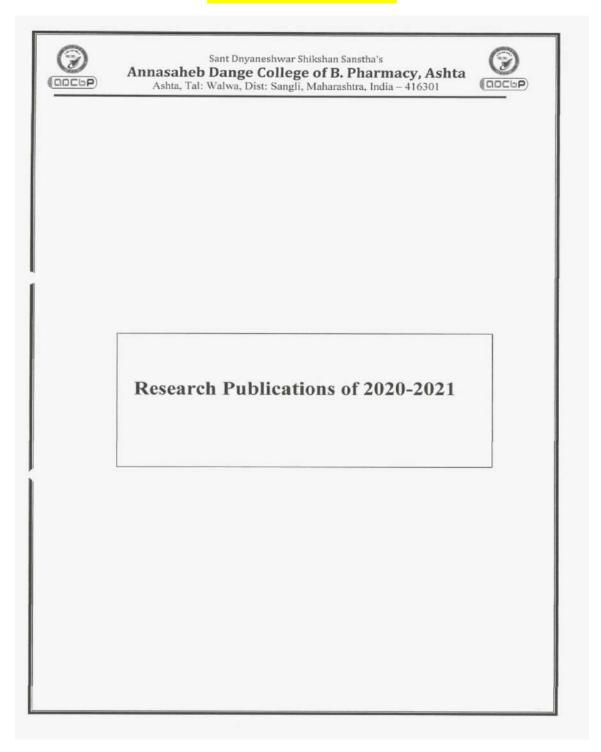




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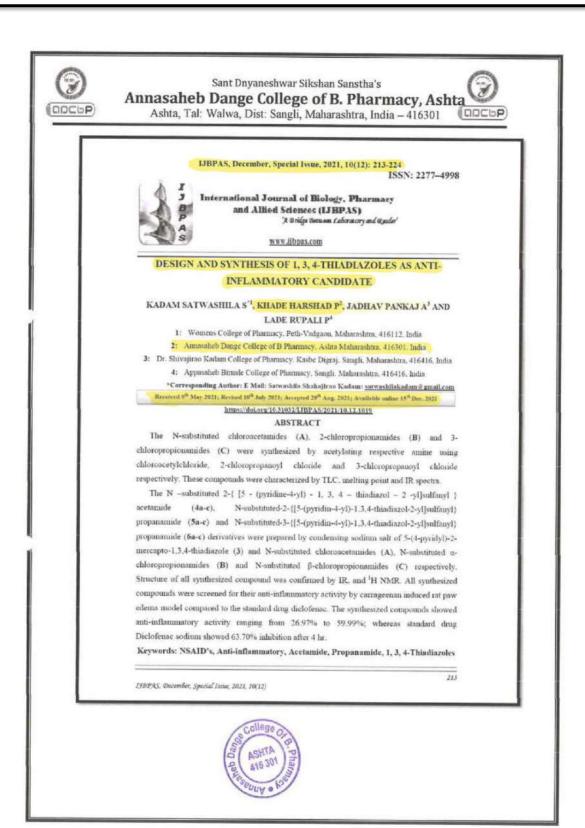
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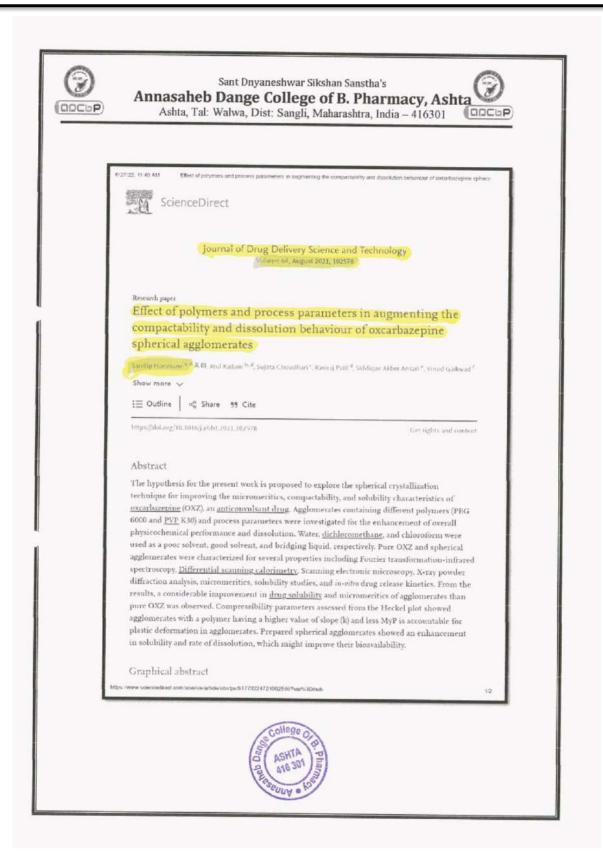


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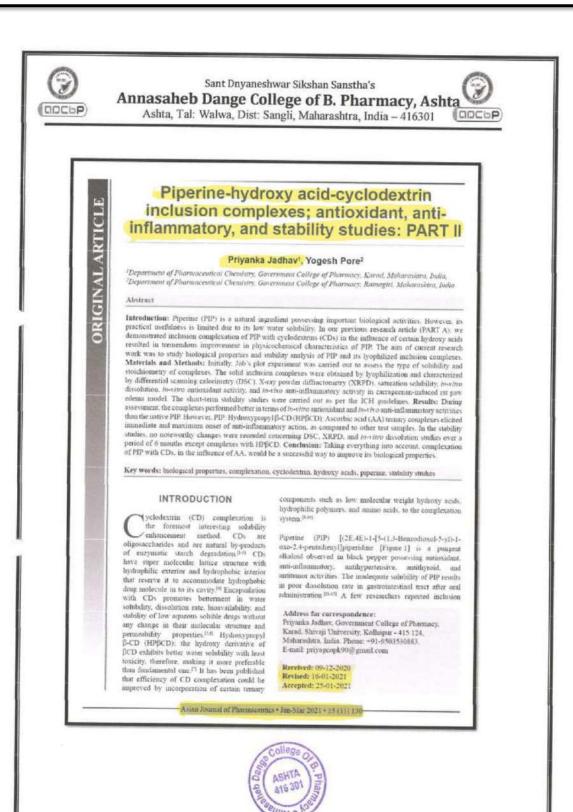


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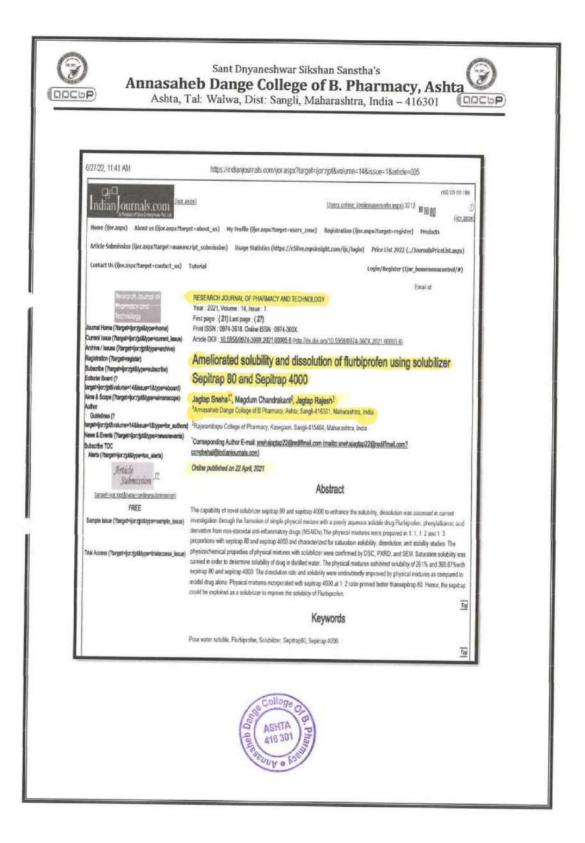


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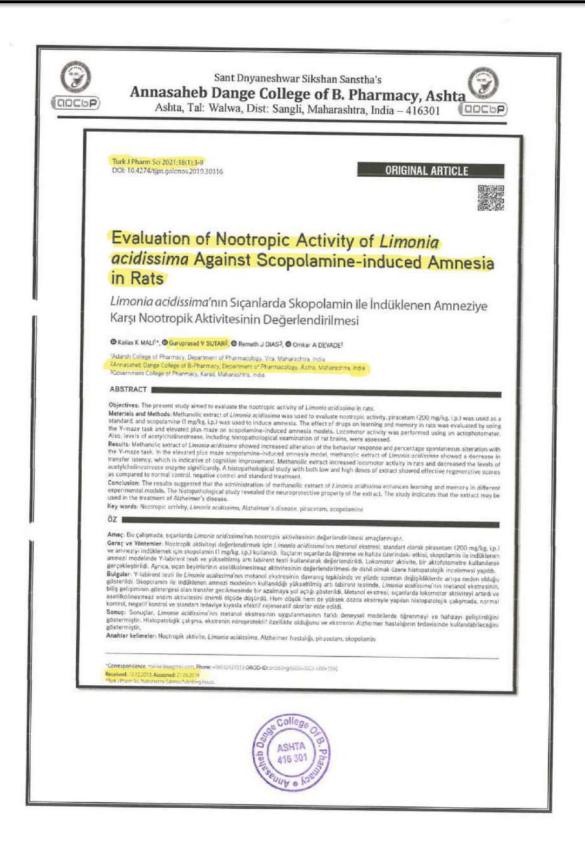


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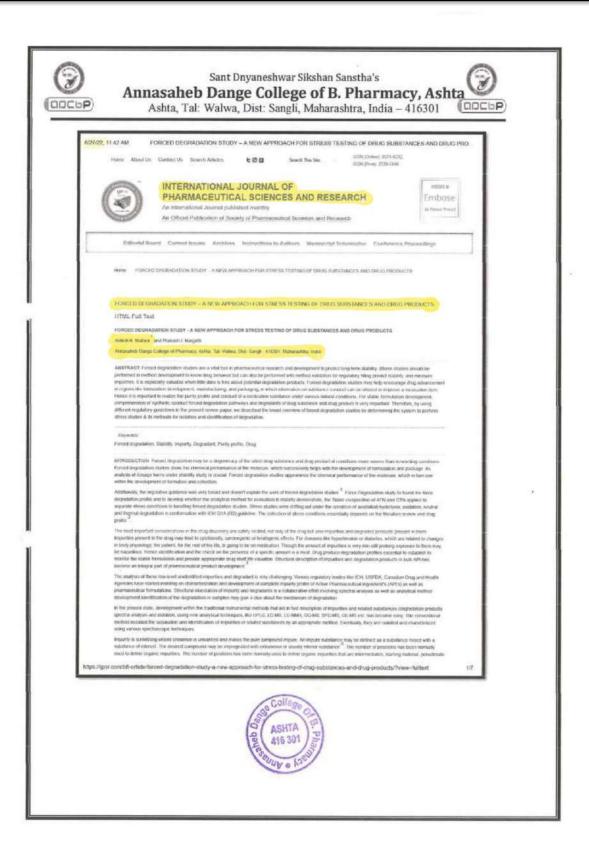


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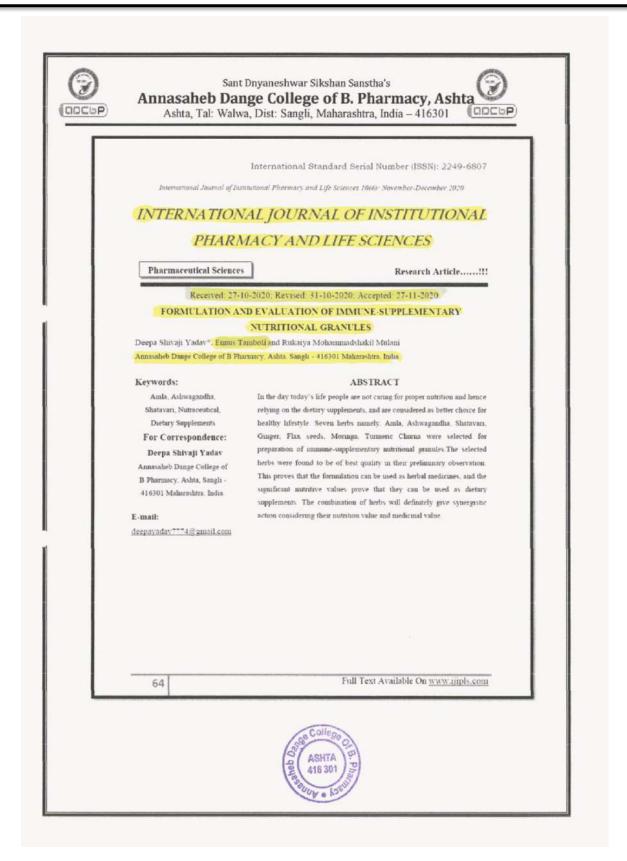


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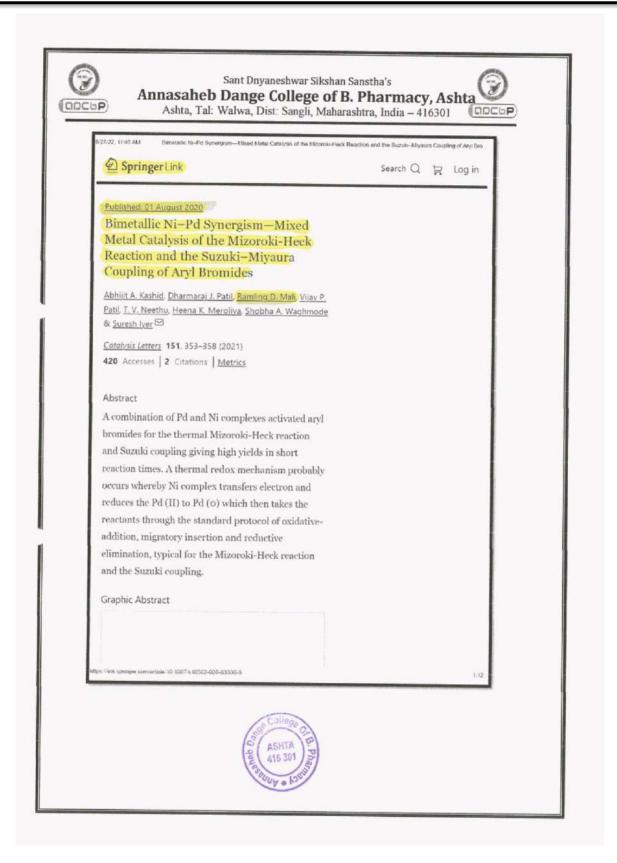


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LJP (2020), Vol. 7, Issue 5



ISOLATION AND CHARACTERIZATION OF SALACIA CHINENSIS AND ITS EVALUATION OF ANTIOXIDANT ACTIVITY

A. R. Tamboli \*1 and A. G. Namdeo 2

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Department of Pharmacognosy, Poona College of Pharmacy, Bharati Vidyapeeth (Deemed to be University). Erandwane, Pune - 411038, Maharashtra, India.

#### Keywords:

Salacia chinensis, Isolation. 25, 26oxido friedelane 1, 3-dione, Chromatography spectroscopy. Antioxidant activity

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E-mail: amirrtamboli@gmail.com

ABSTRACT: Salacia chineusisis, commonly known as Saptarangi in the Hindi family of Hippocrateaceae, it is a woody climbing shrub found in Africa. Vietnam, and Thailand. A large number of biologically active compounds like salacinol, kotalanol, neokotalanol, neosalacinol, salasol, and mangiferin are isolated from S. chinerais. Traditionally, the plant is used in the treatment of diabetes, but there are few studies that demonstrate its use as anti-inflammatory. nephroprotective, anticancer, and treatment of cardiac disorders. The present study involves extraction, isolation, structural elucidation, and prediction of antioxidant activity from the roots of S. chinensis. The roots were extracted with water and methanol by using a hot extraction method. The methanol extract was fractionated with ethyl acetate. The antioxidant activity of different extracts was determined by 1. 1-diphenyl-2- picryl- hydrazyl (DPPH) method. The highest antioxidant activity was found in ethyl acetate extract, followed by methanol extract and water extract. Ethyl acetate extract showed maximum antioxidant activity, so the extract was used for the isolation of antioxidant compounds by column chromatography. The compound was isolated from the Salocia chistensis with higher yield and new technique. The compound isolated was characterized as 25, 26-oxido friedelane 1, 3-dione, and was elucidated using 1H NMR, 13C NMR. and MS. The study shows that the obtained pure compound could be a good source of natural antioxidants.

INTRODUCTION: Large numbers of bioactive compounds are produced by plants that are used as an herbal medicine for the treatment of diseases since ancient times. Various phytochemicals. namely polyphenols, flavonoids, terpenes, phenolic acids, tannins, and coumarins, are present in plant and high concentrations of these phytochemicals may protect against free radical damage 1



The plants consist of beneficial phytochemicals, which is a need of the human body, and these phytochemicals act as natural antioxidants and source of supplementation for human diseases 3, 4, Antioxidants are considered a crucial chemical component, which may be responsible for preventing and delaying various types of cell damage.

The presence of antioxidants enhances the action of the immune system by producing a free radicle that is considered as one of the essential roles 5. It was observed that flavonoids and phenols are considered as strong antioxidants, and these are found to be distributed amongst various parts of

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RESEARCH ARTICLE

#### Sporopollenin: The Ground Discussion

Nimish S. Khandekar, Rajesh S. Jagtap\*, Sachin J. Sajane, Sneha R. Jagtap Annasaheb Dange College of B Pharmacy, Ashta, Sangli + 416301 Maharashtra, 1 \*Corresponding Author E-mail: rajeshjagtap10@gmail.com, nimishschool@gmail.com

Sporopollenin is an ubiquitous and extremely chemically inert biopolymer. The surface of sporopollenin is tichly sculptured, ornamented and porous and is species specific. It is stable in organic and aqueous solvents. It is insoluble in common acids and in most organic solvents. Sporopollenins have very similar chemical structures and to be identical in structure to the synthetic carotenoid polymes. The sporopollenias derived from angiosperms, gymnosperms and ferms and lower plant spores have similar chemical structures and also they are similar to synthetic polymers. Sporopollenins are strongly osmophilic. Sporopollenins react with basic dyes suggesting the presence of weakly amnionic groups such as acidic-enolic compounds. Sporopollenin can be suggesting the presence of weakly animomic groups such as acidic-enotic compounds. Sporopoilenin can be isolated from spores or pollen grain by treating with solvents or enzymes that remove influe and cytoplasm. Purified sporopollenin retains the similar shape, size, and surface features as in its spore or pollen grain and remains an empty shell i.e sporopollenin microcapsules. The different methods developed to isolate sporopollenin from L. clavarum proved its exceptional stability and chemical inertness. Wiermann et al has proved that, the sporopolleni survived a wide range of enzymes. This may explain why it does not easily submit to bacterial decomposition or digestion. Its principle function is to protect against oxidation and desiccation. The study led by Maak proved that sporopollenin by Chiorella virigaris was harmless and could be rubbed on skin with no irritation, swallowed without any danger or even injected in blood stream. The sporopollenin particles were found to cause an antigenic reation and bind to antibodies. The sporopollenin remains unchanged when heated up to 300°C or treated with concentrated acids and bases. Sporopollenin appears to undergo carbonization and coalification with haet. The sporopollenin decomposes by chemolyses and ozonolysis. An unknown enzymatic sequence linked to the clotting cascade has also been discovered that degrades sporopollenin in the blood, both in vitro and in vivo.

KEYWORDS: Sporopollenin, Inert, Osmophilic. Antioxidant. Ozonolysis.

#### INTRODUCTION:

Sporopollenin is a ubiquitous and extremely chemically biopolymer that constitutes the outer wall of all land-plant spores and pollen grains. Sporopollenin protects the vulnerable plant gametes against a wide range of environmental assaults, and is considered as a prerequisite for the migration of early plants onto land. 
It was first observed and named as "sporonin" by John (1814) and latter characterized by Berzelius (1830). Fossil green algae dating back to Devonian period have been shown to contain sporopollenin.

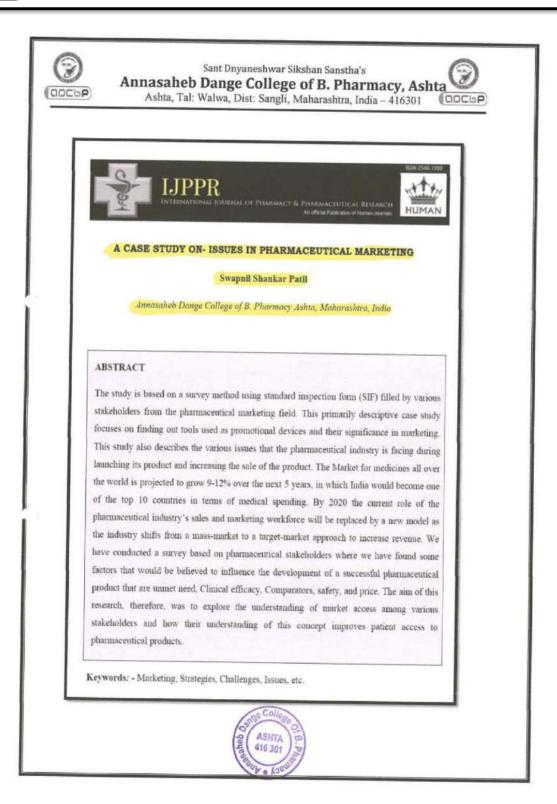
The oldest sporopolleninous acritarchs occur in Pre-Cambrian rocks, 1.2-1.4 billion years old. The green algae are presumably responsible for the development of sporopollenin and its introduction into the armament of higher green plants, where its principal function is protection against oxidation and desiccation. Further Brooks and Shaw from their study have shown the presence of amorphous insoluble organic material which appears similar to present day sporopollenin. It forms the basic structure of the resistant wall of most palynomorphs, like spores, pollen, dinoflagellates, and critarchs. It has also been recorded from the spores of Aspergillus niger, sexual (=) spores of Mucor mucedo, asexual spores of Pithophora oedogonia and several algae like, in the cell wall of Phycopeltis epiphyton (a subaerial green alga found growing on the leaves of vascular plants and bryophytes). Char a corallina, cyst of Prasinocladus marinus. A trilaminar sporopollenin





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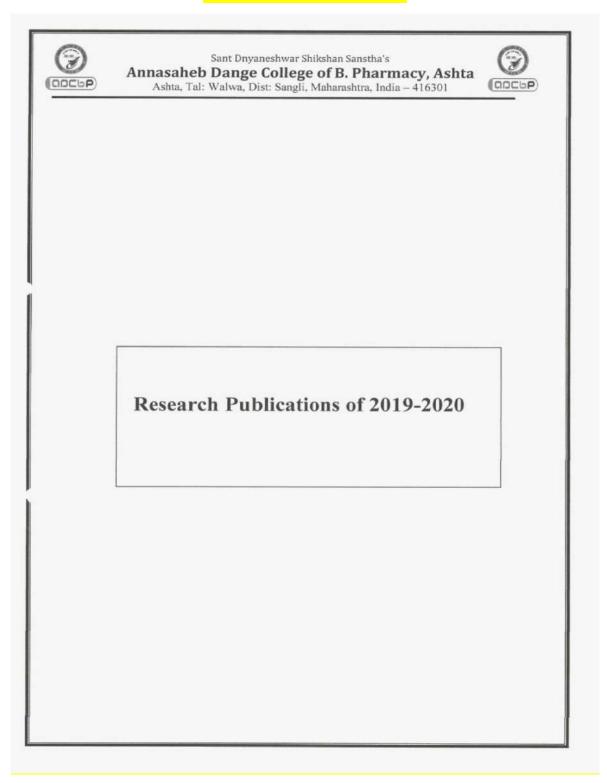
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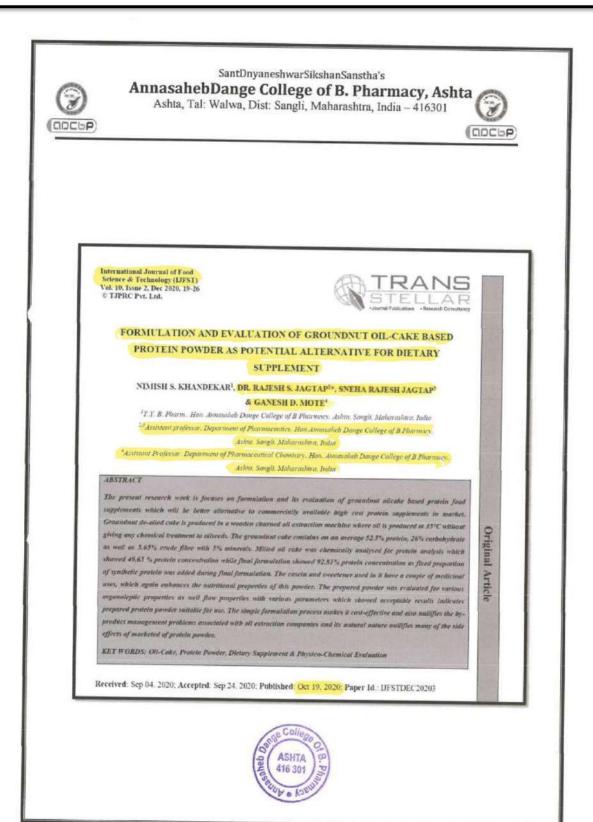
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#### RESEARCH ARTICLE

Polymeric Nanosuspension Loaded Oral Thin Films of Flurbiprofen: Design, Development and In Vitro Evaluation

Pankaj A. Jadhav1. Adhikrao V. Yadav2

Department of Pharmaceutics, Annasaheb Dange College of B Pharmacy, Ashta, Sangli (M.S.) India, 416301 Gourishankar Institute of Pharmaceutical Education and Research, Limb, Satara (M.S.) India, 415015 °Corresponding Author E-mail: pankajjadhav85@gmail.com

In the present investigation, effort has been made to stabilize optimized nanosuspension of flurbiprofen through oral thin film formulation. To overcome the issue of stability of nanosuspension and poor bioavailability of flurbiprofen, nanosuspension loaded oral thin films were developed by solvent casting method. Oral thin films can be prepared by simple and scalable method easily. Nanosuspension loaded oral thin films were evaluated for thickness, % moisture absorption and loss, surface pH, weight variation, folding endurance, drug content, disintegration time, in vitro drug release and stability. The resultant oral thin films depicted that the particles size range was retained even after their stability study for three months. The dissolution rate of all flurbiprofen oral thin films were significantly increased compared with its marketed oral formulation. Thus it can be concluded that, oral thin films have potential for stabilization of nanosuspension with improved drug release.

KEYWORDS: Oral thin film, Flurbiprofen, Solvent casting method, Nanosuspension, Stabilization,

route for drug delivery due high patient compliance and flexibility in the development of dosage form1-2. Many drugs exhibit poor aqueous solubility, and oral bioavailability<sup>1,2</sup>. Nanosuspension has potential to enhance aqueous solubility, and dissolution rate but with the challenge of stability<sup>3-4</sup>. Oral thin film (OTF) is a novel dosage form similar to postage stamp in size, develop stable polymers shape, and thickness<sup>3,5</sup>. These undergo quick thin films of flurbiprofen. disintegration when placed in the mouth without water ingestion or mustication; thus OTF are safe from instability due to pH variations, and enzymes in GI tract3-6. Oral thin films have potential for stabilization of nanosuspension with improved drug release. High viscosity of the film prevents aggregation of nanoparticles and drying enhances stability

Such modified formulation, without changing the Oral route is the most suitable, economical, and common chemical structure of drug; are significant to produce quick onset of action during emergency circumstances 7-8 Flurbiprofen (FBF) is a BCS class II drug belongs to non-steroidal anti-inflammatory drugs (NSAID)9-10. It shows low aqueous solubility, and high log P value which is suitable in the development of nanosuspension<sup>2-16</sup>. The present study was aimed to develop stable polymeric nanosuspension loaded oral

#### MATERIALS AND METHODS:

#### Materials:

Flurbiprofen (FBF), poloxamer 188 (Pluronic F68), and hydroxypropyl methylcellulose E15 (HPMC E15) were gently given by Sun Pharma Pvt. Ltd. Ahmednagar. Glycerol was procured from Sigma Aldrich. All other chemicals with analytical grade, and double distilled water were used during the research work.

#### Methods:

Preparation and optimization of flurbiprofen nanosuspension:

FBF loaded nanosuspensions were prepared by nanoprecipitation technique. Accurately weighed FBF and HPMC E15 were dissolved in methanol (co-solvent) by sonication. Above organic phase of drug was added in

Received on 13.08.2019 Modified on 01.09.2019 Accepted on 25.10.2019 ted on 25.10.2019 © RJPT All right reverved while Pharm, and Tech. 2020; 13(4): 1907-1912. DOI: 10.5958/0974-360X-2020.00343.1

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#### RESEARCH ARTICLE

Gas Chromatography-Mass Spectrometry Analysis of Chloroform Extract of Coccinia grandis Voigt

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outment of Pharmaceutical Chemistry, Annasaheb Dange College of B. Pharmacy, Ashta 41630). India.

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Background: Gas chromatography-Mass spectroscopy is comprehensive techniques for identification of blocking components percent in medicinal plants. Objective of Objective of present study was analysis of chloroform extract of stem part of Coccinia grands Voigt plant belonging to Cucurbincene by Gas chromatography. Mass spectroscopy (GC-MS). Material and Methods: After Successive extraction with petroleum ether, chloroform and ethyl acetate for selected plant, further Chloroform stem extract was analyzed for different bioactive compounds by GC-MS method. Result and Discussion: The GC –MS data of chloroform for different bioactive compounds by GC-MS method. Result and Discussion: The GC -MS data of chloroform extract of stem part of Caccinia genelic Voigs plant showed 24 bioactive physiconsistingents such as Spiro [4.5] dec-6-en-8-one, Hexadecanoic acid methyl ester. Cyclonomasiloxane octadecanethyl, 9-Heptadecanoine, 2, 4-Diserbutylphenol, 1, 7-dimethyl-4-(1-methylethyl), 7, 9-Di-tert-butyl-1-oxaspino (4, 5) deca-6, 9-diene-2, 8 dione. Hexadecanoic acid methyl ester shows antimicrosen 1, 7-dimethyl-4-(1-methylethyl), 9 heptadecanoic, acid methyl ester shown antimicrobal property. Conclusion: Present study concluded that development of potential bioactive compounds identified from GC MS analysis could serve better approach for trestment of various diseases such as microbial infection, fungal infaction, inflammation, dishates polling. on, diabetes mellinus

KEYWORDS: Chloroform extract. Bioactive compounds. Successive extraction. Gas chromatography-Mass spectroscopy, and Coccima grandis Voigt.

#### INTRODUCTION:

treatment of different ailments. It can be observed from ancient literature about the utilization of natural medicinal plants or herbal products. The plants are rich well-pring of saponins, flavonoids, alkaloids, glycosides, sterol, and taunins. These phytoconstituents contribute

Received on 30.12.2019 Modified on 20.03.2020 Accepted on 09.05.2020 RIPT All right reserved Returns of Tech. 20.01.2612-5220.522. DOI: 10.5958.0974.560X.2020.01027.6

Cocchila grandli Voigt is a perennial creeper or climber Medicinal plants have become beneficial source for the plant from Cucurbitaceae family. It is usually known as Ivy goind or scarlet gourd or kowai fruit or kundrii. This plant grows up to 13cm covering small trees, shafts, and buildings. It comprises of 5 lobed glabrous, broad leaves which is 5 to 10cm in length. The upper surfaces of leaves are hairless while lower surface is hairy with heart sterol, and tammins. These phytoconstituents contribute different therapeutic properties. The phenolic compounds and flavonoids possesses antioxidant activity, anticancer activity etc. Frequent utilization of and complete ripe front is of bright scarlet. Seeds are synthetic drugs are not moderate and delivers adverse reactions, subsequently herbal remedies may supportive or flowers are 2-8 cm long, female and male flowers rise at axis on petiole and contain 3 stamens. Coccinia grandis Voigt plant has long, thick, tuberous root with fibrous fracture. The stem of these plants are smooth, green shading and slender when ministure however as it develops it gets broad, swollen and glabrows in nature. Coccioin grandis Voigt has been used to treat disbetes mellims', broughtis, trinary ract





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## **Development and Optimization of Capecitabine** loaded Nanoliposomal System for Cancer Delivery

Sandip Mohan Honmane<sup>1</sup>, Sagar Maruti Chimane<sup>3</sup>, Sandip Akaram Bandgar<sup>2,8</sup>, Shitalkumar Shivagonda Patil<sup>3</sup>

\*Department of Pharmaceutres, Annasatrets Dange College of B. Pharmacy, Aprila, Stilvair University, Kolhapur, Mahamashina, INDIA, \*Department of Pharmaceutres, Ashokrate Mane College of Pharmacy, Path-Vadgoon, Shivaji University, Kolhapur, Mahamashina, INDIA.

#### ABSTRACT

Objectives: The Main objective of this study was to develop and optimize Capecitabine loaded nanoliposomes for prolonged drug delivery in cancer treatment. Methods: Liposomes were prepared by the thin film hydration method followed by sonication. The parameters affecting the vesicle size and percentage drug entrapment of liposome are amount of soyaphospharidyl choline and cholesterol used in their preparation. The Capecitabine liposomal formulation was optimized using 3° factorial design in this amount of soya Phosphetidylcholine and cholesterol were selected as two independent variables to obtain stable liposome with small vesicle size and maximum entrapment efficiency, Results: Competibility studies were carried out by using FT-IR and DSC, the efficiency. Results: Compatibility studies were carried out by using F1-8 and D80, the results showed that there was no significant interaction between drug and excipients. The formulated iposomal preportions were evaluated for verious parameters and results were obtained for optimized batch (B3) Showed vesicle size 178.9nm, retaipotential -77.9mV to -82.7mV, estuapment efficiency 78.65% and percentage drug release 92.07% up to 12 h. Conclusion: Liposomal drug delivery is targeted as to provide more than a constraint of the size of action and with a sustainable drug release followed. drug concentration at the site of action and with a sustainable drug release followed Higuchi-matrix model. Ultimately, reducing the dosing frequency with minimizing the side effects related to high drug intake. Liposome has been provided a spectrum of options and opportunities for designing and practicing site specific, targeted drug therapy.

Key words: Cepecitabine, Liposome, 32 Factorial design, Percent drug entrapment,

Nowadays cancer is the main cause of death to be an ideal drug corner that has a strong 600: 10.55300/per.54.243 Presently chemotherapy, hormonal, gene, reduced systematic toxicity of drugs Lipotreat cancer. But chemotherapeutic agents—term for a therapeutically active agent, owing However, due to high doses of these drugs lible, biodegradable, low toxicity, lack of cause toxic effects. Most common side opsonization and improves the pharmacoeffects like gastrointestinal problems and kinetics and plantascodynamics profile of systemic side effects will appear in antican- the capeutic agent. 2 Structurally, liposomes cer therapy. Successfully translating anti- are concentric bilayer vesicles of natural cancer nano medicines to demonstration of or synthetic phospholipid.24 Due to their therapeutic value in the clinic is challeng- hydrophobic, hydrophilic and small size; ing. Despite liposomes have been proven liposomes are promising systems for drug

in human beings after cardiovascular disease. The most common forms of cancer distribution of incorporated drugs, resultare breast, prostate, colon and long cancers. ing in enhanced efficacy as well as greatly surgery and radiation therapies are used to some have gamed attention as a carrier sysare commonly preferred to treat cancer. to their unique characteristics, biocompat-

denisation Date: 30-08-2019; Accepted Date: 04-02-26

Correspondence: Atr. Sandip Akaram Onpatrment of Pharmacouloca, Ashoksac Mana College of Pharmacy, Peth-Vidgach, Shivaji University Kolhacus-416112, Maharashtra, (#214, Phone: +91-8600003719 E-mail: sandighonnane@amail.com

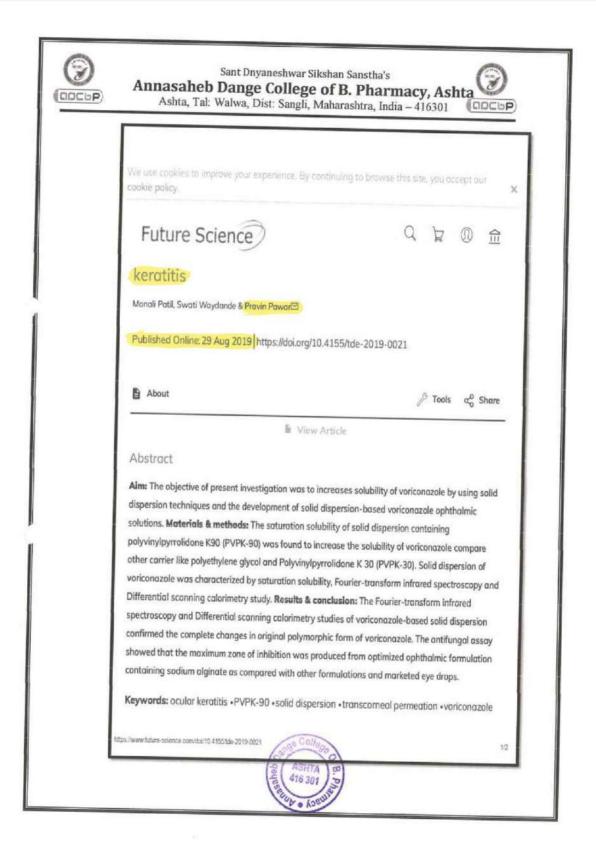


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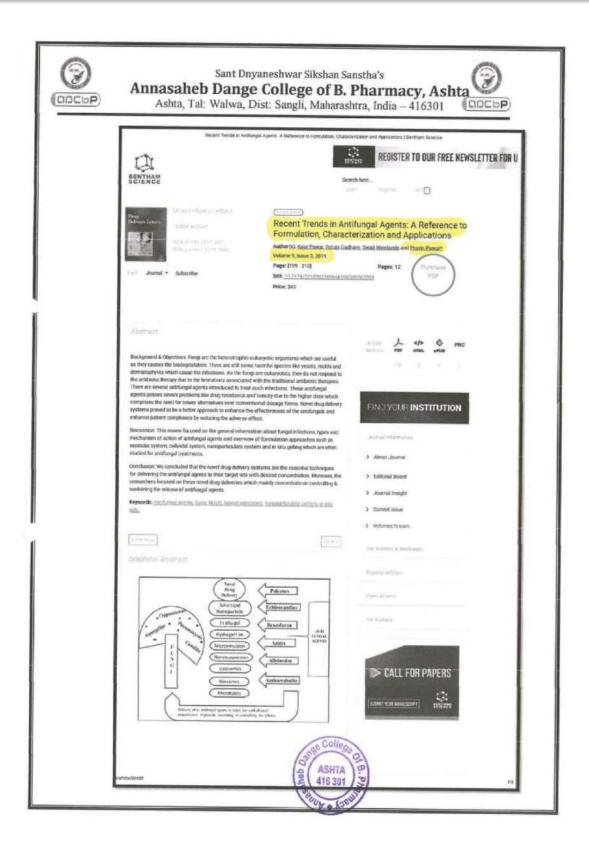


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# RESEARCH PAPER TITLE - FORMULATION AND EVALUATION OF SPHERICAL AGGLOMERATES OF CANDESARTAN CILEXETIL BY SOLVENT CHANGE METHOD

Swapnil S. Patil<sup>1</sup>\* Niranjan V. Patil<sup>2</sup> Ramchandra B. Jadhav<sup>3</sup>

Assistant professor, Head of Department, Principal

Department of Pharmaceutics.

Annasaheb Dange College of B. Pharmacy Ashta, India.

#### Abstract

Candesartan cilexetil, exhibits poor water solubility, poor flowability and poor dissolution. Study was directed to improve the dissolution of Candesartan cilexetil. Spherical agglomerates containing Candesartan cilexetil was prepared by solvent change method. By using ternary phase diagram ratio of solvent addition was maintained. Drug was dissolved in methanol (good solvent), water (poor solvent), dichloromethane (oridging liquid) was used in the preparation. The produced drug particles were characterized by scanning electron microscopy (SEM), differential scanning calorimeter (DSC), x-ray diffraction (XRD) and Fourier transform infrared spectroscopy (FT-IR). In vitro dissolution study of prepared particle was carried out. It was found that dissolution profiles of batch B2 were increased. Further micromeritic properties were also increased. It was realized that appropriate amount of polymer addition along with highest speed will give better drug release.

Key words- Spherical agglomerates, DSC, SEM, XRD, FT-IR, in vitro dissolution, etc.

#### Introduction

In most of the formulations available in market drugs are directly used in the formulation as it is. However there are some other drugs that require modification in their physical, chemical and morphological characters. After changing such modification these drugs will become suitable to be used in the formulation. [1] Many of the drug in the market are come under BCS class 2 having poor solubility in water and less dissolution profile. Due to this problem effective concentration of drug is not achieved. To overcome these problems many solubility enhancement methods are used to increase the dissolution profile of drug. [3,4] Spherical agglomeration is one of the novel technique used to increase the solubility and dissolution rate of poorly soluble drugs. Spherical agglomeration process further helps to improve the flowability and compressibility of drug. [1,2]

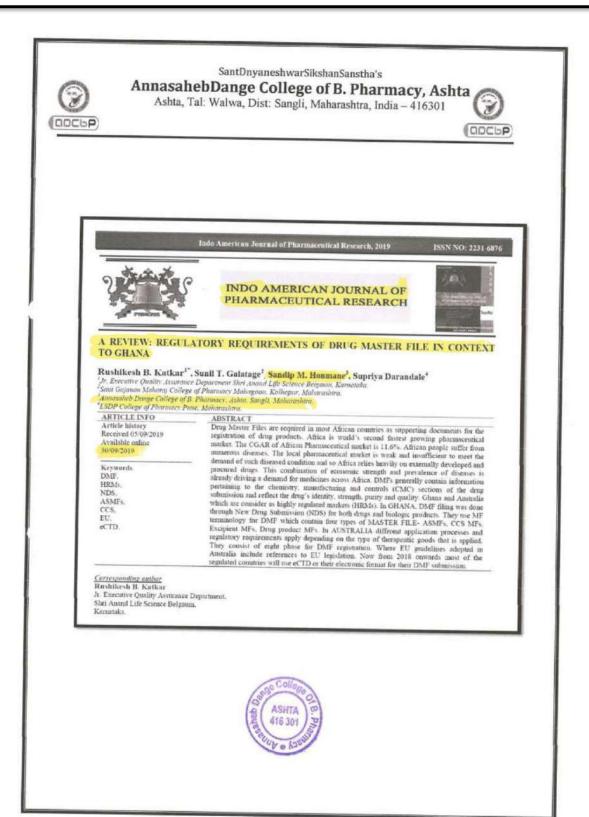
Spherical agglomeration is multiple unit process in which crystallization, agglomeration and spheronization can be carried out simultaneously.[8] Formulated crystals can be called as spherical agglomerates. Spherical crystallization technique has been successfully utilized for improving of flowability and compressibility of drug. These technique may enable crystalline forms of a drug to be converted into different polymeric form having better bioavailability.[9]

Spherical agglomeration is a novel particle design method developed by kawashima et al. It is also come under particle engineering technique in which crystallization and agglomeration carried out simultaneously [11] Many of the drugs administered by oral route because oral route administration is most convenient route for solid dosage forms. The basic requirement for commercial production of tablet is that material to be tabulated should have a good flowability, mechanical strength and compressibility. Hence is necessary to evaluate and manipulate the above said properties. To impart these properties the drugs are subjected to particle design techniques such as spherical crystallization. Formulated agglomerates will improve the flowability and compressibility of drug which enables the direct tableting of drug. It also minimizes the process in tableting like mixing, granulation, drying and sieving etc. There are main four principle steps involved in the process of spherical crystallization like - 1) flocculation zone, 2) zero growth

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# ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH



Online - 2455-2891 Print - 0974-2441 Research Article

FORMULATION, OPTIMIZATION, AND IN VITRO EVALUATION OF POLYMERIC NANOSUSPENSION OF FLURBIPROFEN

PANKALIADHAWA ADHIBURAO YADAWI

Department of Pharmaceotics, Annasaheb Dange College of B Pharmacy Ashta, Sangli, Maharashtra, India. Gomrishank Pharmaceotical Education and Research, Satara, Maharashtra, India. Email: pankajjadhav@Z@gmail.com

#### ABSTRACT

Objective: At present, more than 40% of drugs are poorly water-soluble that leads to reduced biascalability. The objective of the present investigation was to everyone the issue of poor aqueous solubility of drug, therefore, stable flurity-rates (EBF) nanonaperations were developed by

Materials and Methods: Based on particle size, zeta potential, and entrapment efficiency, the polymeric system of hydroxypropyl methyleclinlore. BLS and poloname: 1885 was used effectively. The prepared formulations were evaluated for Fourier transform infrared spectroscopy, transmission between the potential dissultance profile and stability. Pourofer X-roy diffraction, naturation solubility, watrapment efficiency, particle size, seta potential, dissultance profile and stability.

Results: The resultant FDF manocurpensions depicted particles in size range of 200-400 nm and very physically stable. After nanomization, the crystallinity of FBF was slightly reduced in the presence of encylerate. The aqueous solutedity and dissolution rate of all FBF nanocurpensions were significantly increased as compared with FBF powder.

Conclusion: This investigation demonstrated that nanoprecipitation is a promising method to develop stable polyment nanosuspension of FBF with significant increase in its aqueens unfability.

Keywords: Nanosuspension, Nanoprecipitation, Flurbignofen, Hydroxypropyf methylostinbose E13, Lguphilization.

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The large number of active pharmaceutical ingredients emerging from the drug discovery process exhibits poor aqueous solubility resulting in a low dissolution rate and oral bioavailability [1.2]. Solubility. in a low missiminor rate and oral blooksasomy (LLI), Senionly, dissipation and permodality of mgs are rate-limiting parameters for its oral absorption [L2]. Virious physicochemical and physiological parameters of drog affect the oral binavaliability of drug [L2], fine reduction of drugs improves real binavaliability of drug by more arting its effective surface area and thus increasing solidities and dissolution rate of drugs [L2], high log p value and molecular weight of the mistering are important factors would be a produced and a continuous productions of loss of the production of the mistering area of missers was also a produced and a continuous artists. in receives writers are a and flush increasing solicility and discolution rate of drings [4,2], high log yealise and undervalar weight of the substance are important factour regarding naneouspention of lear squeens toolistility of drung; [2]. Nanomarpanton is the noted approach to obsection the problem of lear to discolution rate and compromitted near broavasticity, and estimate the delivery trines by mointaining the dring in preferred crystalline state [3-6]. Nanomarpanton signifies sufficient safety and efficacy [4-6]. According to Nemat-Brunner diffusion layer model, the peripheral layer of the solid particle gets exturated by small portion of an adiacent solivent. Afterward toddy rate mass transfer takes place from the bulk rolution [6-12]. The formulation can be achieved by top-down (fracturing larger particles to smaller particles) or bottom up (generation of smaller particles to smaller particles) or bottom up (generation of smaller particles to produce a single-rate level) approaches [1-6]. If Nanoprecipitation is one of the promising techniques for the development of francourpements on few was to make the level of produce of fancourpements on the work was thorse or observation of leve water-analyle drug under under Wash forces or Ostracid repening can be prevented by addition of one or more stabilizer [3] [15]. The selection of polymers and stabilizers is very crucial in the development of mandermulations. Hydroxypropy methylicalized set 15 (HPMC 6.15) and polymers and stabilizers is very crucial in the development of mandermulations by stress hindrance [1.13]. Nanorurpension formulations of reversal drugs such as Rapainnes (risolines) and Tricos (fenolibrate) are already successfully marketed [16].

Flurbiprofen (FBF) is a phenylalkanot acid derivative (Fig. 1), nonstrefeldal anti-inflammatory and classified as Biopharmaceutics Classification System Class II drug due to its practical incolnishity in sorter. Its each beautishibity is affected by low aqueous solubility having pKs value < 4.82. The high log y value of FBF is an important feature in the development of its nanoempension [17,16].

This study was focused to develop stable polymeric associations for enhancement of dissolution and oral binavailability of FBF. The solidification of formulations was carried out by freeze-drying.

### MATERIALS AND METHODS

FER HPMC E15, and polesamer 180 (Photon: Fol) were kindly gifted by Sus Pharma Prt. Ltd., Alimediague Folydinghyrriddine E30 (PFP K105). Polystiyfene ghynl 5000 (PE5 6000), and sodium dodecyl stalfare (E505) were procured from RAFF Ltd. All used supplementary chemicals and reagents were of analytical grade and utilized wethout additional partitionion. Double distilled water was used during the superintental work.

acressing of statuters onced as attractions value unit, for select the optimal stabilizer the FBF (0.5% w/v) autosuspensions were prepared using different stabilizers (0.5% w/v) such as PCF \$30. PEG \$500, DD, and pelexamer EB. respectively, by unsepared parameterisation technique. The obtained mannformulations were analyzed by settlement volume ratio (F) for a week, and mitable reabilizers was selected based on the architecture. on the stability of the system [19].





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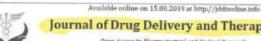
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tadhay et al

Journal of Drug Delivery & Therapeutics. 2019; 9(4-5):203-209



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Research Article

Design, Development and Characterization of Ketorolac Tromethamine Nanosuspension Loaded In-Situ Mucoadhesive Ocular Gel

Jadhay Pankais", Yaday Adhikraob

\*Department of Pharmaceutics, Annasaheb Dange College of B Pharmacy, Ashta, Sangh, MS, India, 410,301

\*Gourishankar lastitute of Fixar staceutical Education and Research, Limb, Satara, MS, India, 415045

#### ABSTRACT

Currently, a variety of ophthalmic products illustrate low bioavailability after topical administration because of anatomical and physiological barriers of eye, heterolac tromethantine (KT) is a BCS class I, potent anti-inflasimatory drug. The rationale of present work was to design and develop KT manouspeason loaded in site get with sustained effect and greater permeability for ocular drug delivery through increased ordine resilience time of drug. KT ananouspearon loaded to site get was designed by using 34 actorial design. Powers and surfaciant wave optimized through trial batches sublitting better drug content (%), In 1970e trans-coursed permeation (%) and corneal hydration (%), Optimized formulation was evaluated for clastry, pH, gelling capacity, rheological behavior, drug content (%). Beneficial permeability content (with Deviated Content (%), the second permeability of the case of the content (%). The second permeability when compared to the marketed eye drop. Optimized formulation was found as nounricant to eye with natalined effect and good stability, So, current system can be considered as an efficient ordine drug delivery system for the treatment of postoperative inflammation, which would improve patient compliance and ocular bloavailability.

Keywords: Ketoroloc tremethamine, in 1811 gel. corneal hydration, mucoadhesive, trum-corneal permeability

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 $[adhaw\,P,\,Yadaw\,A,\,Design,\,Development\,and\,Characterization\,of\,Ketorolar\,Tremethamine\,Nanosuspension\,Loaded\,In-Situation\,of\,Methods and Characterization\,of\,Methods are also becomes a constant of the property of the prope$ Mucoadhesive Ocular Gel. Journal of Drug Delivery and Therapeutics. 2019; 9(4 s):203-209 http://dx.doi.org/10.22270/jiddt.v9i4-s.3227

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#### 1. INTRODUCTION

Ketorolac tromethamine (KT) is a BCS class I drug having potent anti-inflammatory activity. Chemically it is a pyrrolizine carboxylic acid; NSAID used for the awatment of pyrrolinine carboxylic acid. NSAID used for the tweatment of post-operative eye inflammation and conjunctivitis<sup>1,2</sup>. Being water soluble agent to formulate nanosystem is quite difficult by entrapment in polymeric vehicle<sup>3</sup>. Generally the basic problems for topical application in the treatment of ocular infection is drug loss from pre-corneal surface, conjunctival uptake due to poor bioavailability and rapid drainage through naso-lacrimal areas\*5. However, short precorneal contact time combined with corneal impermeability result in low bioavailability, and frequent dosing is usually needed. Nanosuspension by nanoprecipitation is the novel drug delivery approach for sustaining the drug in its crystalline state?\*. Selection of polymers and stabilizers are very essential in the development of transmispensions to avoid particle aggregation, and crystal growth 1841. Design of experiment has proven effective optimization of formulations<sup>40-11</sup>. In present investigation; formulation was optimized by using 3° factorial design. Hence, based on ISSN: 2250-1177

above challenge, KT nanosuspension loaded in situ gel increases ocular bioavailability, and residence time on the corusal surface. The rationale of present work was to design and develop KT nanosuspension loaded in situ gel with sustained effect and greater permeability for challenging ocular drug delivery.

Figure 1: Chemical structure of ketorolac tromethamine

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RESEARCH ARTICLE

# Influence of Water-soluble polymers on Epalrestat ternary complexation by kneading

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#### ABSTRACT

The study reported in this current work objected to demonstrate the formation of binary and ternary inclusion complexes of Epairestat (EP), a poorly water-soluble acidic type drug, with  $\beta$ -cyclodextrin (CD) and with water-soluble polymers PVP K30 and HPMC E4. The solid systems of EP with  $\beta$ -CD and water-soluble polymers were obtained by kneading and characterized for phase solubility, saturation solubility, dissolution, stability studies, FTIR, DSC, PXRD and SEM data indicated the positive influence of  $\beta$ -CD and hydrophilic polymers on EP solubility and dissolution. Phase solubility studies were carried out to evaluate the solubilizing power of CD, with regards to EP in combination with water-soluble polymers, and to determine the apparent stability constants (K5) and complexation efficiency (CE) of the complexes. Phase solubility studies showed A<sub>L</sub> (linear) type of solubility curve for the ternary complexes it also showed amelioration in K5 value for ternary complexes. The CE of  $\beta$ -CD towards EP was promoted by water-soluble polymers signifying its use as a ternary component. The dissolution rate of EP and solubility were undoubtedly improved by complexation with  $\beta$ -CD as compared to model drug EP alone. Ternary complexes incorporated with PVP K 30 and HPMC E4 proved better than binary complex. Hence, the water-soluble carrier could be exploited as a ternary component to improve the solubility of EP via  $\beta$ -CD complexation.

KEYWORDS: Epalrestat, enhanced dissolution. PVP K30, HPMC E4, β-cyclodextrin (β-CD). Binary and ternary complexes.

#### INTRODUCTION:

Considerable modern active pharmaceutical ingredients belong to the BCS class II category and exhibit low solubility and low dissolution rates. Low solubility turns in an important chemical entiry not arriving at a stage of finished pharmaceuticals by reason of not achieving their full potential and therapeutic range. These API needs enhancement in low solubility, dissolution rate and bioavailability which is featured to drug's success. The most common long-term complication in patients suffering from diabetes mellitus is diabetic neuropathy.<sup>1</sup>

EP is a relatively new widely prescribed endocrine and metabolic product, the subcaregory is an antidiabetic drug which is a poorly water-soluble known to demonstrate solubility related dissolution constrain. <sup>3</sup> Its mechanism of action is largely based on the inhibition of aldose reductase <sup>3</sup> Aldose reductase expression play converts glucose to sorbitol in presence of NADH. Increased aldose reductase expression has been associated with complications of diabetes, as it can create tissues dependent on insulin for glucose uptake. EP reduces oxidative stress in type II diabetes by decreasing lipid hydroperoxide levels in erythrocyte when administered at 150mg/day. Cyclodextrin complexation is a productive approach for enhancing the solubility, dissolution rate and bioavailability of BCS Class II Drugs. Cyclodextrins are a family of three well known industrially produced, major cyclic oligosaccharides and several minor, rare ones. Cyclodextrins may be

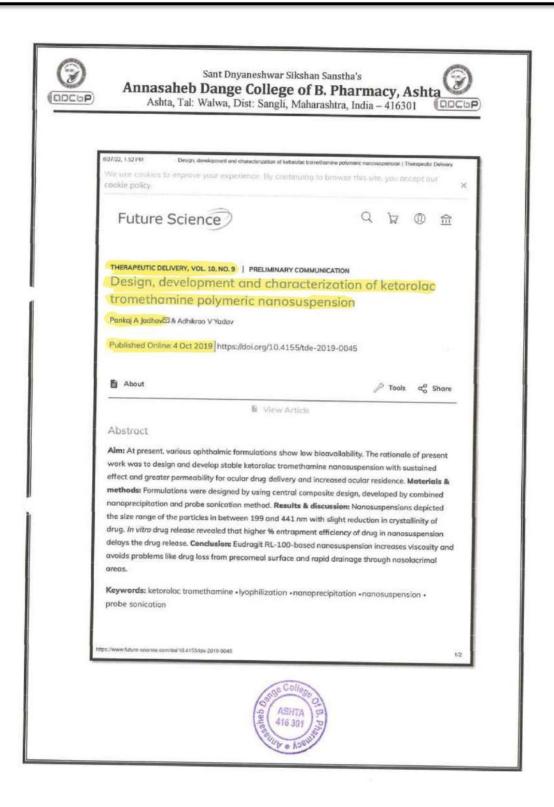
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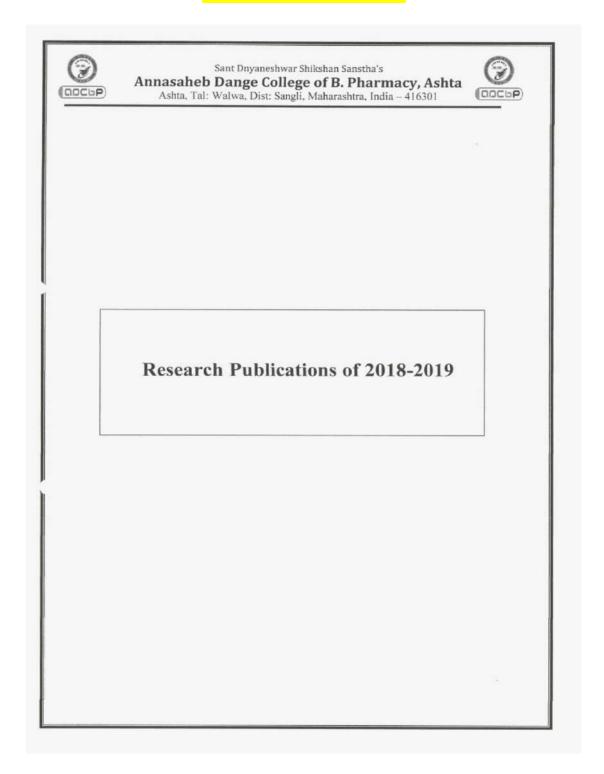
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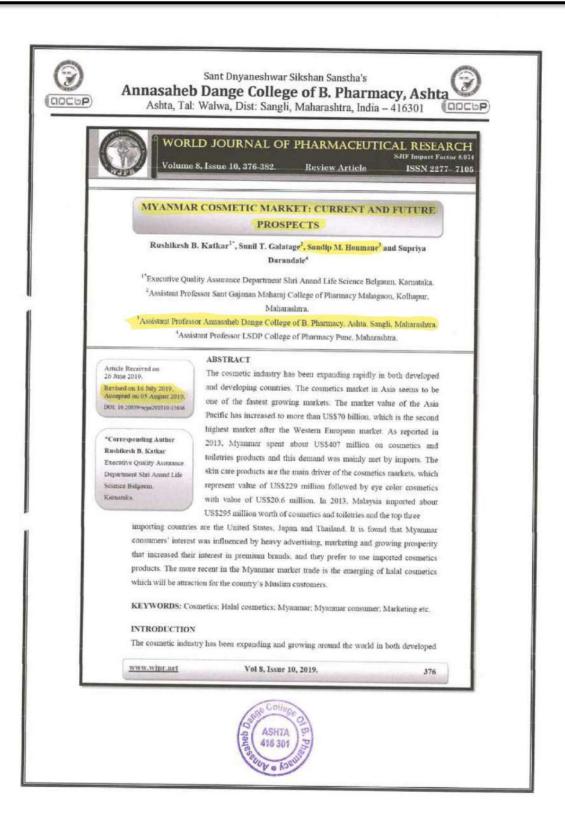
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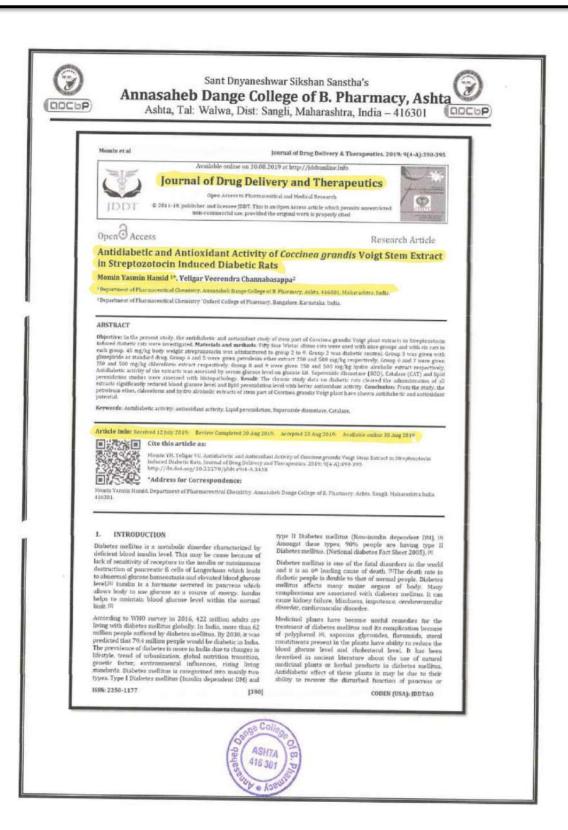


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# ASIAN JOURNAL OF PHARMACEUTICAL AND CLINICAL RESEARCH

NNOVARE ACADEMIC SCIENCES

Research Article

MELOXICAM-PECTIN-B-CYCLODEXTRIN TERNARY COMPLEX BY KNEADING FOR ENHANCEMENT OF SOLUBILITY AND DISSOLUTION RATE

#### RAJESH JAGTAPI\*, SHRINIVAS MOHITE

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\*Received: 28 January 2018, Received and Accepted: 2 March 2019.

#### ABSTRACT

Objective: The objective of the present investigation was to improve the colobility and dissolventary inclusion roughleading with natural polymers and beta cyclodestron (\$CO) by inscaling

Methods: Equimolar physical mixture (1:1) was prepaired by homogeneously kneading drug and B-CD sixing a solution of agar and pectric in scates to get a partie, then parts was discoveringful up at inclusion complex. Inchesion complex was evaluated for drug content the yield of the adsorption process. Fourther-transform intravel (FTRR), differential scanning calorimeter (DGC), powder X-ray diffractometry (FXRD), scanning electron interactory (EDR), distraktion, and stability-similes.

Results: The phase solubility diagrams exhibit A, showing a linear increase of drug solubility and indicating the formation of soluble complexes. The PTIR and DSC show comparishing between melostrons and p-CD, while slight broadening in the peak with a reduction in intensity and early orner solubles the reduction in drug crystallinity which confirms to PTRD partner. The SEM of bleaty, at well as remark, thoseed no aggregation, and there was a gap between the partners also make after arrange good reduces which in the dissolution rate of the drug from the baseded terrary complex with pertinents as ignificantly rapid composed with the pare drug. The maximum drug release was observed at BLLIstain at the end of six min. The terrary is nagion was found stable offer 8 installed stable offer 8 installed stables.

Conclusion: The results indicated that ternary inclusion complexation with natural polymers and S-CD was most media for enhancement of solubility and disselution rate of a poorly soluble drug like meloxicam.

Keywords: Melostram, β-cyclodestrin, Natural polymers. Ternary complex, Solubility enhancement.

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Ordisdentrin inclusion complexes play an important role in improving the therapeant officacy of drugs with post inhabitity and/or stability problems. They are capable of alice taining the understable properties of drug molecules through the formation of indication complexes [11]. Beauty of the complex of the problems of the complex of the problems and the generally results in more estective to the indicational adulty towards hipping the molecules with a good safety profile [2]. Booveen: opticidentria has problems such as high molecular mans easier as high conference of the complex of becomes dependent in the problems most a good tabety profile [2]. However, cyclodwartan has problems must a high numberalum man-rather a high corn and potential parenteral tractory [3]. Strengthening the complexation and solubilisation efficacy of cyclodwartan is possible by the use of the servacy agent which may act as a bracking agent between cyclodwartan and guest molecules another as by solubilistics. Apart from several approaches toward this aim is the addition of minible annihilar exhibitance, which can be a media-approach to increase cyclodwartan inhabiting capacity by terrain complete. Other macromondars a wartery of molecules inside the cavity day to first shape to form inclusion composition. The guest molecules encapatured by CDs may sundergo some changes in their physical chemical, or biological properties. This feature has been advantageously exploited for tenewain, the reliability and bioswall-bility of straigs [7-9], Instead of attempting only himay inclusive completes which causes an increase in solubility into efficiency and may result in seducing amounts of CD [0.0.11]. These results can be attributed to the givents, which causes an increase in solubility into efficiency and may result in seducing amounts of CD [0.0.11]. These results can be attributed to the givent part of polymers and CD solubilisations or the formation of drugs CD suster-could be to historic world drugs. CD molecules, and even with the drug CD complexation efficiency in the presence of water-robuble microasting CD complexation efficiency in the presence of water-robuble polymers is not yet fully understood, however, it is believed that water-soluble polymers can reduce CD mobility and increase the complex solubility [144]. Cyclodentin ternary complexes have been tried for overall enhancement of solubility and disouthers are set neglocaries and [15, 10], some acute [17,14] using alcohol [19], and hydrophilic polymer [20,21]. There are different types of the hydrophilic polymer have been tried including qualitatic and semi-synthetic, but there was a case use of natural polymer for this purpose [22].

Melantzam (4-hydrosy-2-methyl-N-(5-methyl-2-thtambyl)-h-L. 2 beszerthtamis-N-carbonymids 1, 1-dimethyl is a parter montrevoldal axis unflammatorydrug file particulal insciolation in user (21 majorat.) Its poor solubility and vertability lead to difficulties in oral and parteneral formulations. It the greener investigation, attempt was made to improve schildrity and demonster rate of the poorly soluble drug using ternary complexation with B-CD and natural polymers as agar and pectin as natural polymers have several advantages synthetic or semi-synthetic polymers.

#### MATERIALS AND METHODS

Solvering the state obtained as a gift sample from Cipla Ltd., Mounbat, India. 9-CO year gifted by Lupin Ltd Fune. All other chemicals and onlywarts used seven of plasmacoratical and analytical grade. Duable distilled water was used throughout the study for all the experimental procedures.

The multiplity behavior of meknicum was examined in distilled water at some temperature ( $\text{Zie}(\mathbb{Z}^n\mathbb{Z})$ ) according to the method described by Highman





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# Research Article AMERICAN JOURNAL OF PHARMACY AND HEALTH RESEARCH

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# Formulation and Evaluation of Fast Dissolving Buccal Film containing Vildagliptin

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#### ABSTRACT

The present study deals with the formulation of fast dissolving films of vildagliptin that is used for the treatment of Diabetes. The concept of fast dissolving drug delivery emerging from the desire to provide better patient compliance and avoid first pass metabolism. In the present research work, various trials were carried out using film forming agents such as HPMC, Maltodextrine. Polyethylene alcohol, to prepare an ideal film. Solvent casting method was used for the preparation of films. The prepared films were evaluated for weight uniformity, drug content, film thickness, folding endurance. The in vitro dissolution studies were carried out using ph-6.8 phosphate buffer. This approach increase therapeutic efficiency of pharmaceutical actives by avoiding hepatic first pass metabolism, deliver drug molecule in control manner, enhance absorption and improves patient compliance

Keywords: Fast dissolving buccal film, Vildagliptin, HPMC, Maltodextrine, poly-ethylene oxide tween 80, aspartame Glycerin Solvent casting method. In vitro drug release, Ex-vivo drug diffusion studies,





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Journal of Drug Delivery and Therapeutics



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Research Article

### ENHANCEMENT OF SOLUBILITY & DISSOLUTION RATE OF NIFEDIPINE BY USING NOVEL SOLUBILIZER SEPITRAP 80 & SEPITRAP 4000

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1 Annavaheb Dange College of B Pharmacy, Ashta, Saugli - 415301 Maharashtra, India.

- 2 Krishna Institute of Medical Sciences, Krishna Institute of Pharmacy, Karad, Setura 415110 Maharashtra, India.
- 3 Rajarambapa College of Pharmscy, Kasegaon. Sangli ~115464 Maharashtra, India.

The enhancement in solubility and dissolution rate of BCS class-II drog Nifedipine was achieved by simple physical mixture with sepitrap 80 & sepirap 4000 in 1:1 & 1:2 proportion. The saturation solubility sindies shows 263 % & 368 % increase in the solubility in physical mixture of Nifedipine with sepitrap 80 & sepitrap 4000 respectively. The physicochemical properties of pure Nifedipine compared to their physical unitures with sepitrap 4000 were determined using FTIR. DSC & PXRD. The FTIR and DSC studies shows no any interaction in Nifedipine and septrap, the made-de broadening and distinct reduction in intensity with shifting of dring endotherm was displayed physical mixture with sepitrap demonstrate positive effect. The PXRD diffrictograms-shows distinctive peaks but reduction in peak intensity in terms of counts indicating conversion from tine surface morphology of the prepared physical mixture was examined by SEM which indicating no significant change in its surface morphology due to no use any solvent during the preparation of physical mixture. Photostability studies shows that rate of photo degradation is very slow in Physical mixture with septrap a compared to pure Nifedipine. Dissolution studies in SGF & SF shows containing septrap 4000 was found stable as there was no any significant change in appearance and drug dissolution after three month stubility studies.

Keywords: Nifedipine. sepitmp 80. sepitmp 4000, physical mixture, solubility enhancement

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Ooi- http://dx.doi.org/10.22270/iddx.y8(5-s.2041

\*Address for Correspondence:

Jagfap Rejesh, Assistant professor, Annasaheb Dange College of B Pharmacy, Ashta, Tal – Walwa, Dist-Sangli - 416301 Maharashtra, India.

#### 1. INTRODUCTION

Nifedipine is an oral calcium-channel blocking agent. widely used in the treatment of angine pectoris and hypertension. Nifedipine is a poorly water-soluble drug and its oral bioavailability is very low. Diseases like angina, asthma, epilepsy etc. require immediate drug re-sponse to manage the disease condition. Improvement of the aqueous solubility of poorly water-soluble drugs is one of the important factors for the enhancement of absorption and obtaining adequate oral bioavailability

The various methods reported till the date for dissolution rate enhancement of Nifedipine (model drug) include rate emancement of Artourpus (history compaction with hydroxypropylmethylcellulose 2, co-grinding with HPMC 3 or bile salts 4, formation of solid dispersions as co-precipitates or co-evaporates with manustol", phosphatidylcholine esters "HPMC".
Chitosau derivatives "polyethylene glycols " and polyoxyethylene-polyoxypropylene copolymers <sup>30</sup>, and inclusion complexes with beta-cyclodextrin ".

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ISSN:0975-1459 Journal of Pharmoceutical Sciences and Research

# Solubility Enhancement Technique: A Review

Sueha Jagtap 1. Chandrakant Magdum 2. Dhanraj Jadge 1. Rajesh Jagtap 1

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Solubility is the phenomenon of dissolution of solid in liquid phase to give a homogenous molecular dispersion which is essential to drug's success. But majority of the active pharmaceutical aggredants are poor aqueous soluble, hydrophobic. The solubility, property of the drug's becomes one of the most challenging aspects in formulation development. Poor aqueous solubility results in important products not reaching the finished pharmaceuticals due to not achieving their full potential and therapeutic range. Hence poor aqueous solubility of drugs is major limiting factor with many arm drugs in their successful limits, in marker inspite of their potential pharmacolinesis can be major model have highly beneficial effect on their physicalcular target would not be further developed if their boarnalability is limited by their solubility in water. Aqueous solubility of drug also affects physical, chemical properties of the drug, dose, tabulary in gostronteninal track, severy as standard for text of units, the rate of dissolution of would, rate and extent of absoration incharge desired contribution of true in solubility in water. Aqueous solubility of drug also affects physical, chemical properties of the drug, 605e, standary in gastromiesman macs, severs as standard for text of pourly, the rate of dissolution of sends, rate and entent of absorption, nchieve desired concentration of drug in systemic creations for desired (unnerpated) pharmacological response. Thus solubility is a most important concept presenting itself as valuable contributor in the formulation of pharmaceuticals. If the molecule has to sourcive the pharmaceutical development process the formulation scientist has to come up with new API with great demand in market. The usable pharmaceuticals which poor tolubility much as ascarred well by solubilization techniques, such as chemical modification which unvolve use of solubilizer such as solubility much be dendeniners, and physical modification, complexation, use of surfactant which are becoming more and more important to the pharmaceutical sector by operatin no neutrons of the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more important to the pharmaceutical sector by operating more and more operating more and more operating more and more operating more and more sector by opening up pathway to prepare effective and marketable drugs are discussed in present review article.

Key Words: Solubility, Solubility enhancement, Biogranilability, Novel methods, Dissolution.

#### INTRODUCTION:

Solubility is a property of substance in a particular solvent. In quantitative terms it is concentration of dissolved solute in a saturated solution at a specific temperature. In qualitative terms it means continuous interaction of two or more compound to form one phase, clear homogeneous molecular dispersion. It is measured as maximum amount of solute dissolved in a solvent at equilibrium. The resulting solution is called a saturated solution. A solubility chart gives a list of ions and how, when mixed with other ions, they can become precipitates or remain aqueous. [1, 2] Solubility equilibrium is a dynamic equilibrium that occurs when a chemical compound in the solid state exhibits chemical equilibrium with a solution of that compound. Solubility equilibria are important in planmaceuticals. Drug with poor aqueous solubility (in other words Class II or even Class IV inpounds of BCS) presents dissolution related absorption problems. In pharmaceutical sciences, when quantitative data are available solubility may be expressed as parts, molarity. normality, formality, mole fraction percent solution, volume

molecules of the solvent to provide space in the solvent for the solute, interaction between the solvent and the solute molecule or

Step 2 Molecule of the solid breaks away from the bulk. Step 3 The feed of solid molecule is integrated into the hole in

Biopharmaceutics classification system (BCS) was introduced by US Food and Drug Administration (FDA) and it classify the drug in to four classes according to penneability and solubility. Solubility impediment are faced in the Class II and Class IV of the system facing dissolution as the rate limiting step for the crytion of drug due to low solubility.

BCS Classification of Drug 161

Class	Permeability	Solubility
I	High	High
11	High	Low
Ш	Low	High
IV	Low	Low





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# Academic Year 2017-18





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HEATING THE MATRIX TABLETS OF ACECLOFENAC ABOVE GLASS TRANSITION TEMPERATURE OF THE POLYMER TO ACHIEVE SUSTAINED RELEASE.

S. N. Pattekari\*

S.D.S.S's Annasaheb Dange College of Pharmacy, Ashta, MS, India- 416301.

#### ABSTRACT

The present research was aimed to develop sustained release formulation of aceclofenac by a simple and economic means of heating Eudragit RS matrix tablets containing aceclofenac above the glass transition temperature of Endragit RS and to study the effect of duration of heat treatment on drug release. The matrix tablets of aceclofenac were formulated using Eudragit RS and were subjected to heat treatment at temperatures 45° C and 60° C for 6, 12 and 24 hours, in oven. Dissolution studies were carried out to investigate effect of temperature and duration of heat treatment. The results of in vitro dissolution study showed that heating matrix tablets above glass transition temperature of the polymer Eudragit RS caused reduction in the drug release than untreated matrix tablets and tablets heated below glass transition temperature. Also it was evident that as the duration of heat treatment was increased, the drug release decreased significantly. This was related to formation of tight polymer network and better entrapment of drug in the polymer matrix due to heating above glass temperature. The research was successful in development of better sustained release drug delivery of Aceclofenac.

KEYWORDS: Aceclofenac. Endragit RS, glass transition temperature, sustained release.

#### INTRODUCTION

Aceclofenae is a Non-steroidal anti-inflammatory drugs (NSAIDs) which is considered to be one of the drug of choice in the symptomatic relief of conditions like rheumatoid arthritis, osteoarthritis and spondyliris. [1] The short biological half-life (3-4h) and dosing frequency more than once per day make Aceclofenae an ideal candidate for sustained release [2] Over the last few decades, greater attention has been focused on design and development of sustained release drug delivery systems due to its many advantages. The goal of designing a sustained release drug delivery system is to prolong the drug release, reduce frequency of dosing, reducing the dose required and to provide uniform drug delivery. [3]

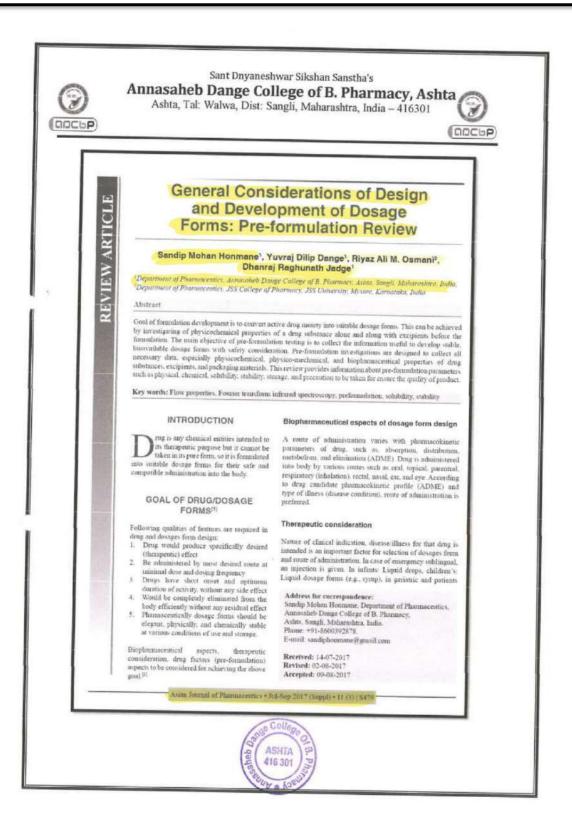
There are many techniques available for design of sustained release formulations. Out of which controlling the drug dissolution is one of the best and most successful methods due to its simple design and economic aspects. In order to achieve this, a lot of methods have been investigated

Suraj et al. / Pharma Science Monitor 9(1), Jan-Mar 2018, 508-514





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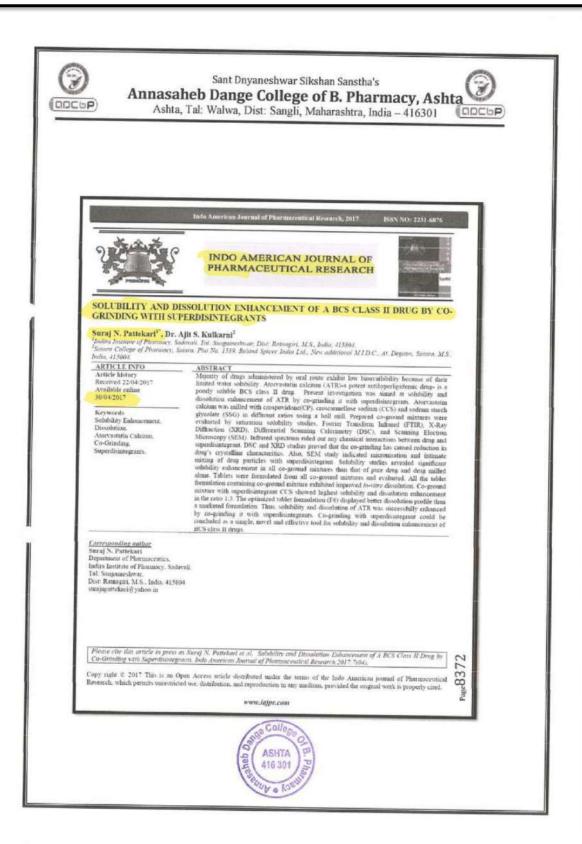


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#### Research Article

#### Formulation and Evaluation of Particulate Nasal Drug Delivery System for the Treatment of Migraine

Ms. Jadhav V. V. T., Mr. Jagtap R.S., Dr. Doljad R.C., Me. Desai J. R., Ms. Pol S. V., Mr. Pawar J. D., Mrs. Jagtap S.R<sup>3</sup>., Mr. Shete A.S<sup>4</sup>.

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Received 02 Aug. 2017; Accepted 23 Sep. 2017

#### ABSTRACT

The intranasal delivery is preferable route for the administration of the drug for local systemic as well as central nervous system drug delivery. Microparticulate drug delivery system provides numerous advantages like, increased surface area, modified release pattern, improved bioavailability etc. The aim of the present study is an attempt to formulate and evaluate microspheres drug delivery system of Zolmitriptan by using Ethyl Cellulose as polymer for the treatment of migraine. The Zolmitriptan microspheres were prepared by quasi emulsion solvent diffusion method using methanol and dichloromethane system. The formulation parameters and processing parameters like ratio of drug polymer (1:2, 1:3, 1:4, 1:5, 1:6, 1:7), volume of water and stirring speed, time were optimized. The prepared microspheres were characterized for its drug content, percentage yield, compatibility study, powder characteristics, percent moisture content, in-vitro drug release, Ex-vivo mucoadhesion study. Based on In-vitro drug release the batch F4 is selected as optimized batch. Having drug: polymer ratio is 1:5 (Zolmitriptan 50 mg: ethyl cellulose 250mg). The in-witro % drug release of batch F4 was 99.6.

Keywords: Zolmitriptan, mucoadhesion

#### 1. INTRODUCTION

Intranasal drug delivery system is suitable for the local and systemic delivery of diverse therapeutic compounds. Among the non-invasive routes, nasal administration offers promising potential as a variable alternative for the delivery of some drugs. Hence, a surge of interest led to many investigations involving the cavum as a possiblewebsite for the administration of a lot of therapeutic agents. The nasal route is conventionally used for drug delivery for treatment of local disease. Now a days this route has received special attention as a conventional and reliable method for systemic delivery of drugs, especially those that are ineffective by route due to their metabolism in the GI tract being prone to first pass metabolism. The objective of present

study is to prepare the sustained release microspheres. A sustained, constant drug level at the therapeutic optimum is needed in the blood in number of pathological conditions. Therefore the preparation of controlled and targeted drug delivery system is most important. The microparticulate delivery systems include mainly microspheres, liposomes, suspension and microemulsion.

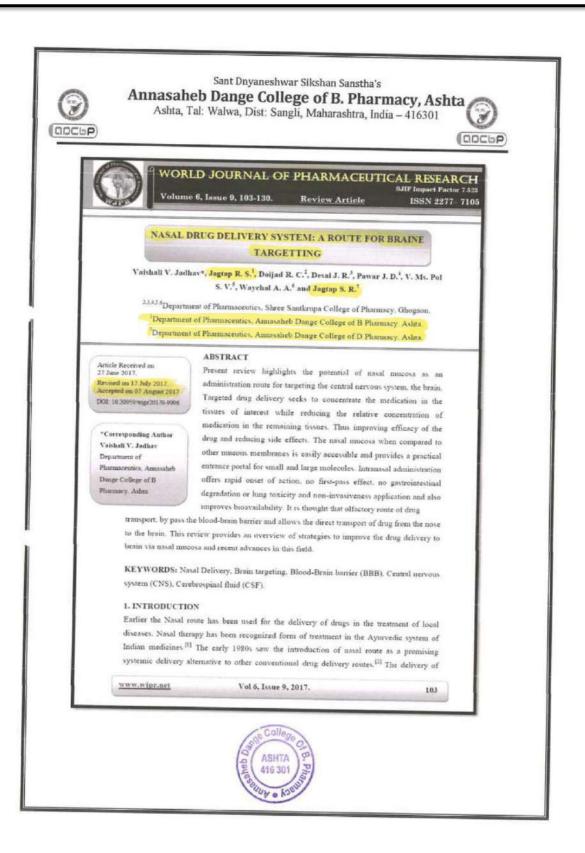
Biodegradable and biocompatible polymer materials as drug carriers have been investigated in the recent 15 years in large number of studies in various drug delivery systems. Microparticles, have controlled diffusion through the matrix structure and also sensitive materials (drugs, peptides, hormones, vaccines, pDNA) can be protected against the external environment. The present work was aimed to formulate and evaluate

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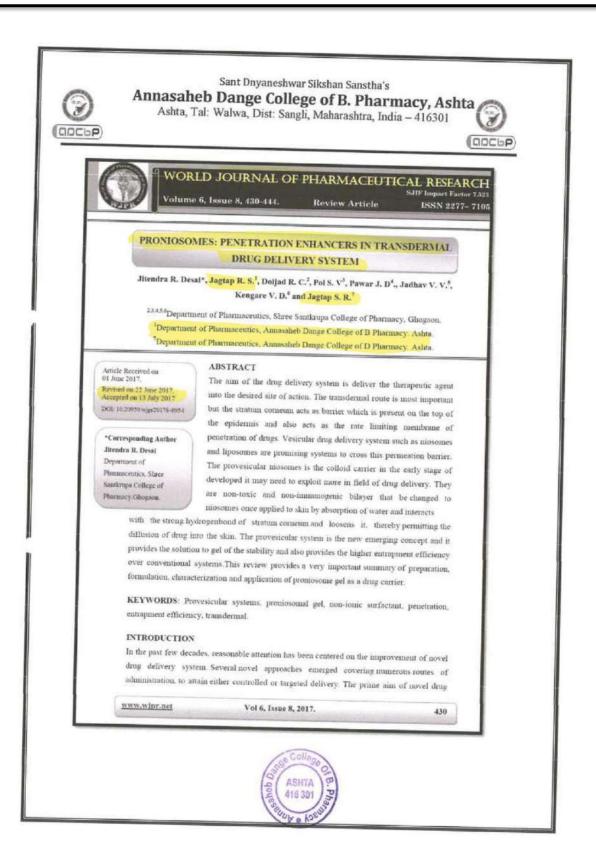


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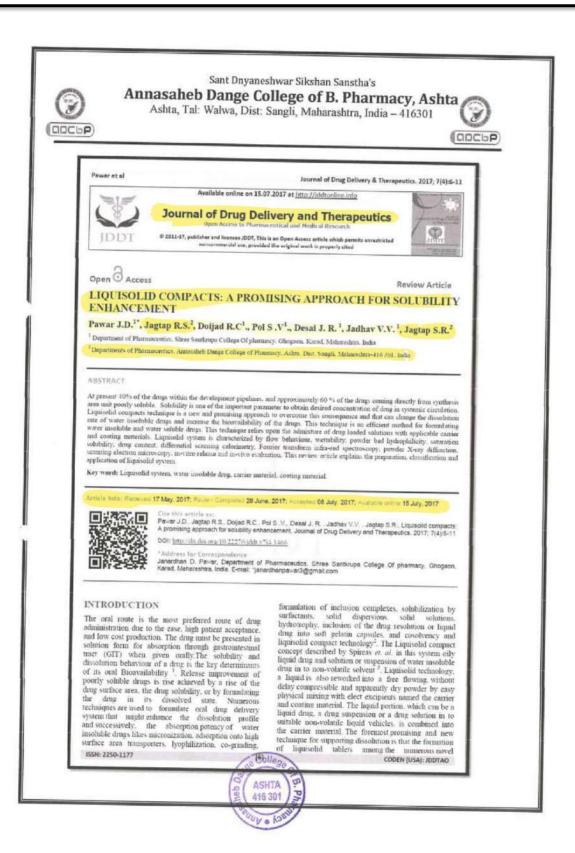


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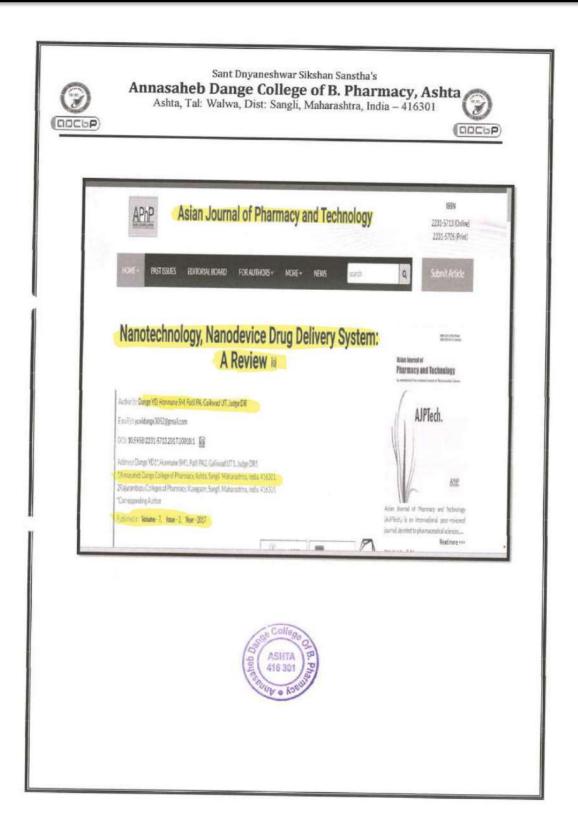


# Annasaheb Dange College of B. Pharmacy, Ashta



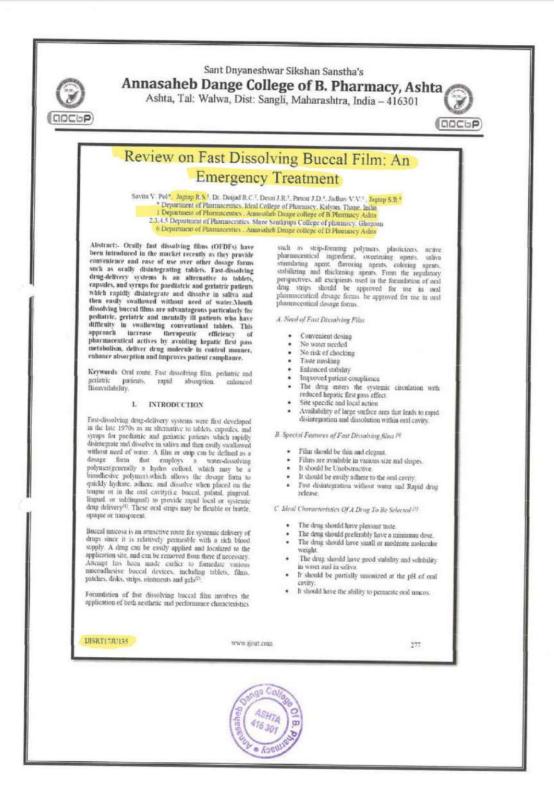


# Annasaheb Dange College of B. Pharmacy, Ashta





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# Annasaheb Dange College of B. Pharmacy, Ashta Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

# **DVV Clarification Query 4**

Sr.no.	Name of P	articular DVV Quer	<b>'y</b>									
4.	(Indicate in the data template	(Indicate in the data template against each paper about the presence of the										
	paper in the UGC C.	paper in the UGC CARE list/Scopus/Web of Science.)										
<b>Justification</b>												
In the below data t	In the below data template indicated presence of the paper in the UGC CARE list/Scopus/Web of											
	Science -Academic Year wise											
1	Academic Year 21-22	Page no. 98-101	View Document									
2	Academic Year 20-21	Page no 102-105	View Document									
3	Academic Year 19-20	Page no. 106-109	View Document									
4	Academic Year 18-19 Page no.110-112 <u>View Document</u>											
5	Academic Year 17-18	Page no. 113-116	View Document									

**Back to DVV Clarification Index** 



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# Detailed summary for- each paper about the presence of the paper in the UGC CARE list/Scopus/Web of Science.

## **AY-2021-22**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Year of publi	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		catio n		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/W eb of Science/other , mention
1.	Polydopamine surface-modified nanocarriers for improved anticancer activity: Current progress and future prospects	Sandip M. Honmane	Pharmacy	OpenNano	2022	2352-9520	https://www.sciencedirec t.com/journal/opennano	https://doi.org/10.1016/j.onan o.2022.100059	Scopus & UGC
2.	In silico molecular modeling study on Isatin derivatives as anti covid agents based on Qsar and molecular docking	Ganesh D.Mote, Shubhangi S. Kharat ,Shubhangi S.Savale, Aditya A. Bandgar	Pharmacy	Der pharma chemica	2022	0975- 413X	www.derpharmachemica .com	https://www.derpharmachemi ca.com/pharma-chemica/in- silico-molecular-modeling- study-on-isatin-derivatives- as-anticovid-agents-based- on-qsar-and-docking- analysis-87082.html	Scopus



# Annasaheb Dange College of B. Pharmacy, Ashta



3.	Pharmacognostic al evaluation of Arisaema murrayi (J. Graham) Hook. leaves and tubers for quality control assessment	Ravina M. Kamble, Ennus T. Tamboli, Amir R. Tamboli	Pharmacy	International Journal of Green Pharmacy	2022	0973-8258	https://www.greenpharmacy.info/index.php/ijgp	https://doi.org/10.22377/ijgp. v16i1.3223	web of science
4.	Simultaneous Estimation of Atorvastatin and Aspirin by Dual Wavelength Spectrophotomet ric Method from Tablet Dosage Form	Shailaja P. Desai, yasmin H.Momin, Sneha R. Jagtap ,Rajesh S. Jagtap	Pharmacy	Indian Journal of Natural Sciences	2022	0976-0997	https://tnsroindia.org.in/j ournals.html	https://tnsroindia.org.in/JOU RNAL/issue71/ISSUE%2071 %20-%20APR%202022%20- %20FULL%20TEXT%20PA RT%201.pdf	web of science
5.	Formulation and assessment of quick dissolving tablet of Candesartan cilexetil arranged from their circular agglomerates	Swapnil S. Patil	Pharmacy	Research Journal of Pharmacy and Technology	2022	2348-6465	https://www.researchgat e.net/journal/Research- Journal-of-Pharmacy- and-Technology-0974- 3618	https://rjptonline.org/Abstract View.aspx?PID=2022-15-2- 62	Scopus



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6.	Formulation, characterization and evaluation of in vitro antioxidant potential of melatonin and quercetin loaded liposomes	Manjiri A. Rajmane, Yasmin H. Momin , Rajendra C. Doijad,Veerend ra C.Yeligar	Pharmacy	Annals of Phytomedicine	2021	2278-9839	http://www.ukaazpublica tions.com/publications/in dex.php	http://dx.doi.org/10.21276/ap .2021.10.2.44	UGC
7.	An Overview on Liposomes as A Novel Drug Delivery System	Swapnil S. Patil	Pharmacy	Journal of Emerging Technologies and Innovative Research	2021	2349-5162	https://jetir.org/?gclid=C jwKCAiAioifBhAXEiw ApzCztpGa7y1r0qEJdvP e- rOBgRK7l8SW010MzS 816yxsVAWErb7ZfSoB dhoCzaQQAvD_BwE	https://www.jetir.org/view?p aper=JETIR2112161	UGC
8.	Evaluation of potential in vitro anticancer and antimicrobial activities of synthesized 5-mercapto-4-substituted 1, 2, 4 triazole derivatives	Shailaja P. Desai, Yasmin H. Momin, Sneha T. Taralekar, Yuvraj D. Dange, Sneha R. Jagtap ,Harshad P. Khade	Pharmacy	Annals of Phytomedicine	2021	2278-9839	http://www.ukaazpublica tions.com/publications/in dex.php	http://dx.doi.org/10.21276/ap .2021.10.2.36	UGC
9.	Evaluation of CNS stimulating activity of hydroalcoholic extract of Brassica oleracea	Guruprasad V. Sutar, Sachin J. Sajane, Sneha T. Taralekar, Prakash I. Nargatti	Pharmacy	Annals of Phytomedicine	2021	2278-9839	http://www.ukaazpublications.com/publications/	http://www.ukaazpublication s.com/publications/wp- content/uploads/2022/01/Vol 10No2 22.pdf	UGC



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## **AY-2020-21**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Yea r of publ	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		icati on		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Design and Synthesis of 1, 3, 4-Thiadiazoles as Anti- inflammatory Candidate	Satwashila S.Kadam, Harshad P.Khade, Pankaj A. Jadhav, Rupali P.Lade	Pharmacy	International Journal of Biology, Pharmacy and Allied Sciences	2021	2277-4998	https://www.ijbpas.com	https://ijbpas.com/pdf/2021/Dece mber/MS_IJBPAS_2021_DEC_S PCL_1019.pdf	UGC
2.	Effect of polymers and process parameters in augmenting the compactability and dissolution behaviour of oxcarbazepine spherical agglomerates	Sandip M. Honmane, Atul Kadam, Sujata Choudhari, Raviraj Patil, Siddique Akber Ansari, Vinod Gaikwad	Pharmacy	Journal of Drug Delivery Science and Technology	2021	1773-2247	https://www.sciencedire ct.com/journal/journal- of-drug-delivery- science-and-technology	https://doi.org/10.1016/j.jddst.202 1.102578	web of science & Scopus



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3.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; antioxidant, anti- inflammatory and stability studies: PART II	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3970	web of science & UGC
4.	Piperine-hydroxy acid-cyclodextrin inclusion complexes; physicochemical, computational and Proton NMR studies: PART I	Priyanka H. Jadhav	Pharmacy	Asian Journal of Pharmaceuti cs	2021	1999-4923	https://www.asiapharm aceutics.info/index.php/ ajp	https://doi.org/10.22377/ajp.v15i1 .3973	web of science & UGC
5.	Ameliorated solubility and dissolution of Flurbiprofen using solubilizerSepitr ap 80 and Sepitrap 4000	Sneha R. Jagtap, Chandrakant S. Madgum, Rajesh S. Jagtap	Pharmacy	Research Journal of Pharmacy and Technology	2021	0974-3618	https://rjptonline.org/H ome.aspx	http://dx.doi.org/10.5958/0974- 360X.2021.00005.6	Scopus & UGC
6.	Evaluation of Nootropic Activity of Limonia Acidissima Against Scopolamine- Induced Amnesia in Rats	Kailas K. Mali, Guruprasad V. Sutar, Remeth J. Dias, Omkar A. Devade	Pharmacy	Turkish Journal of Pharmaceuti cal Sciences	2021	2148-6247	https://www.turkjps.org	https://dx.doi.org/10.4274%2Ftjps .galenos.2019.30316	Scopus



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7.	Forced Degradation Study - A New Approach For Stress Testing Of Drug Substances And	Ashish K. Mullani , Prakash I.		International Journal of Pharmaceuti cal Sciences and			https://ijpsr.com/bft- article/forced- degradation-study-a- new-approach-for- stress-testing-of-drug- substances-and-drug-	http://dx.doi.org/10.13040/IJPSR.	web of science
	Drug Products	Nargatti	Pharmacy	Research	2020	2320-5148	products/	0975-8232.12(5).2683-91	& Scopus
8.	Formulation and evaluation of immune- supplementary nutritional granules	Deepa S. Yadav, Ennus T. Tamboli , Rukaiya M. Mulani	Pharmacy	International Journal of Institutional Pharmacy and Life Sciences	2020	2249-6807	https://portal.issn.org/re source/ISSN/2249-6807	http://www.ijipls.com/uploaded/journal_files/201219051243.pdf	web of science & Scopus
9.	Bimetallic Ni-Pd synergism Mixed metallic catalysis of Mizoroki Heck Reaction & Suzuki - Miyaura Coupling of Aryl Bromide	Abhijit A. Kashid , Dharmaraj J. Patil, Ramling D.Mali, , Suresh Iyer	Pharmacy	Catalysis Latters	2020	1572-879X	https://www.springer.co m/journal/10562	https://doi.org/10.1007/s10562- 020-03330-9	Scopus
10.	Isolation and characterization  of Salaciachinensis and its evaluation of antioxidant activity	Amir R. Tamboli , A.G. Namdeo	Pharmacy	International Journal of Pharmacogn osy	2020	2394-5583	https://ijpjournal.com/b ft-article/curcumin-a- review-on- neuroprotection/	http://dx.doi.org/10.13040/IJPSR. 0975-8232.IJP.7(5).126-32	web of science & Scopus



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11.	Sporoplleinin: The Ground Discussion	Nimish S. Khandekar, Rajesh S. Jagtap, Sachin J. Sajane, Sneha R. Jagtap	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-3618	https://rjptonline.org/H ome.aspx	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-3-87	Scopus
			y						213943
				International Journal of				https://ijppr.humanjournals.com/	
	A Case study on			Pharmacy				wp-content/uploads/2020/04/4-A-	
	Issues in			and				CASE-STUDY-ON-ISSUES-IN-	
10	Pharmaceutical	G	Diamon	Pharmaceuti	2020	2240.7202	https://ijppr.humanjour	PHARMACEUTICAL-	Pub Med&
12.	Marketing	Swapnil S. Patil	Pharmacy	cal Research	2020	2349-7203	nals.com/	MARKETING.pdf	Google scholar

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# **AY-2019-20**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Year of public	ISSN number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (DOI number)		
			teacher		ation		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Formulation And Evaluation Of Groundnut Oil- Cake Based Protein Powder As Potential Alternative For Dietary Supplement	Nimish S.Khandekar , Rajesh S. Jagtap, Sneha R.Jagtap, Ganesh D.Mote	Pharmacy	International Journal of Food Science & Technology	2020	1365-2621	https://ifst.onlinelibrary .wiley.com/journal/136 52621	http://www.tjprc.org/publishpaper s/2-30-1604035191- IJFSTDEC20203.pdf	UGC
2.	Polymeric Nanosuspension Loaded Oral Thin Films of Flurbiprofen: Design, Development and In Vitro Evaluation	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://rjptonline.org/AbstractVie w.aspx?PID=2020-13-4-53	Scopus



# Annasaheb Dange College of B. Pharmacy, Ashta Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

3.	Gas chromatography- Mass Spectrometry analysis of Chloroform extract of Cocciniagrandis Voigt	Yasmin H.Momin	Pharmacy	Research Journal of Pharmacy and Technology	2020	0974-360X	https://rjptonline.org/H ome.aspx	https://doi.org/10.5958/0974- 360X.2020.01027.6	Scopus
4.	Development and Optimization of Capecitabine loaded Nanoliposomal System for Cancer Delivery	Sandip M. Honmane, Sagar M.Chimane, Sandip A.Bandgar, Shitalkumar S. Patil	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2020	0019-5464	https://www.ijper.org/	http://dx.doi.org/10.5530/ijper.54. 2.43	Scopus
5.	Design and Evaluation of topical solid dispersion composite of voriconazole for the treatment of ocular keratitis.	Monali Patil, Swati Waydande , Pravin K. Pawar	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://pubmed.ncbi.nl m.nih.gov/31462154/	https://doi.org/10.4155/tde-2019- 0021	scopus
6.	Recent Trends in Antifungal Agents: A reference to formulation, characterization and applications.	Kajal Pawar, Rutuja Gavadhe, Swati Waydande , Pravin K. Pawar	Pharmacy	Drug Delivery Letters	2019	2210-304X	https://benthamscience. com/public/journals/dru g-delivery-letters	https://doi.org/10.2174/22103031 09666190508082009	scopus



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7.	Formulation and evaluation of spherical agglomerates of candesartan cilexetil by solvent change method	Swapnil S. Patil., Niranjan V. Patil.	Pharmacy	Journal of Emerging Technologie s and Innovative research	2020	2231-5705	https://ajptonline.com/ AbstractView.aspx?PID =2016-6-4-4	https://doi.org/10.5958/2231- 5713.2016.00032.5	UGC
8.	A review: Regulatory Requirements of Drug Master File in Context to Ghana	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	Indo American Journal of Pharmaceuti cal Research	2019	2231-6876	https://zenodo.org/recor d/3463964/export/geojs on	https://zenodo.org/badge/DOI/10. 5281/zenodo.3463964.svg	Google scholar
9.	Formulation, Optimization and In Vitro Evaluation of Polymeric Nanosuspension of Flurbiprofen	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455-3891	https://innovareacademics.in/journals/index.php/ajpcr/article/view/35670	https://doi.org/10.22159/ajpcr.201 9.v12i11.35670	Scopus & UGC
10.	Design, Development and Characterization of Ketorolac Tromethamine Nanosuspension Loaded In-Situ Mucoadhesive Ocular Gel	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250-1177	https://jddtonline.info/i ndex.php/jddt	https://jddtonline.info/index.php/jddt/article/view/3227	UGC ,Google scholar



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11.	Influence of water-soluble polymers on Epalrestat ternary complexation by kneading	Sneha R. Jagtap, Chandrakant S.Magdum	Pharmacy	Research Journal of Pharmacy and Technology	2019	0974-3618	https://www.rjptonline.	https://doi.org/10.5958/0974- 360X.2019.00614.0	scopus
12.	Design, Development and Characterization of Ketorolac Tromethamine Polymeric Nanosuspension	Pankaj A. Jadhav, Adhikrao V. Yadav	Pharmacy	Therapeutic Delivery	2019	2441-5990	https://www.future- science.com/journal/tde	https://doi.org/10.4155/tde-2019- 0045	scopus



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# **AY-2018-19**

Sr. no	Title of paper	Name of the author/s	Departm ent of the	Name of journal	Yea r of publ	ISSN numbe r	Link to the recognition in UGC enlistment of the Journal /Digi Object Identifier (DOI number)		
			teacher		icati on		Link to website of the journal	Link to article/paper/ abstract of the article	journal webpage in UGC Care list/Scopus/ Web of Science/othe r, mention
1.	Myanmar Cosmetic Market: Current and Future Prospects.	Rushikesh B. Katkar, Sunil T. Galatage, Sandip M.Honmane ,Supriya Darandale	Pharmacy	World Journal of Pharmaceuti cal Research	2019	2277– 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/15672 35263.pdf	Google scholar
2.	Antidiabetic and Antioxidant Activity of Coccineagrand is Voigt Stem Extract in Streptozotocin Induced Diabetic Rats	Yasmin H. Momin, Veerendra C. Yeligar	Pharmacy	Journal of Drug Delivery and Therapeutics	2019	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v9i4- A.3438	UGC &Google scholar



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3.	Meloxicam- Pectin-β- Cyclodextin ternary complex by kneading for enhancement of solubility and dissolution rate.	Rajesh S. Jagtap , Shrinivas K. Mohite	Pharmacy	Asian Journal of Pharmaceuti cal and Clinical Research	2019	2455- 3891	https://innovareacade mics.in/journals/index. php/ajpcr	https://doi.org/10.22159/ajpcr.2019.v1 2i4.32126	Google scholar
4.	Lung delivery of nanoliposomal salbutamol sulphate dry powder inhalation for facilitated asthma therapy	Sandip M.Honmane , Ashok A. Hajare , Harinath N.More, Riyaz A. Osmani, Sachin S. Salunkhe	Pharmacy	Journal of liposome Research	2019	1532- 2394	https://www.tandfonli ne.com/toc/ilpr20/curr ent	https://doi.org/10.1080/08982104.201 8.1531022	web of science
5.	Formulation and evaluation of fast dissolving buccalflims containing vildagliptin	Savita V. Pol, Rajesh S. Jagtap, Rajendra C. Doijad, Sneha R. Jagtap	Pharmacy	American journal of Pharmacy & health research	2018	2321– 3647	https://www.ajphr.com	http://ajphr.com/ajphrfiles/uploaddir/ AJPHR-609003.pdf	Google scholar
6.	Enhancement of solubility & dissolution rate of Nifedipine by using novel solubilizer	Rajesh S. Jagtap, Rajendra C. Doijad , Shrinivas K. Mohite	Pharmacy	Journal of Drug Delivery and Therapeutics	2018	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v8i5- s.2041	UGC &Google scholar



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7.	Solubility Enhancement Technique: A Review	Sneha R. Jagtap, Chandrakant S. Magdum, Dhanraj R. Jadge, Rajesh S. Jagtap	Pharmacy	Journal of Pharmaceuti cal Sciences & Research	2018	0975- 1459	https://www.jpsr.phar mainfo.in/	https://www.jpsr.pharmainfo.in/Documents/Volumes/vol10Issue09/jpsr10091818.pdf	Scopus & UGC

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# **AY-2017-18**

Sr. no	Title of paper	Name of the author/s	Departm ent of the teacher	Name of journal	Year of publi catio n	ISSN num ber		n in UGC enlistment of the J ct Identifier (DOI number)  Link to article/paper/  abstract of the article	journal webpage in UGC Care list/Scopus/We b of Science/other, mention
1.	Heating the matrix tablets of Aceclofenac above glass transition temperature of the polymer to achieve sustained release.	Suraj N. Pattekari	Pharmacy	Pharma Science Monitor	2018	0976- 7908	https://www.pharmasm.co m/	https://web.p.ebscohost.com/abst ract?direct=true&profile=ehost& scope=site&authtype=crawler&j rnl=09769242&AN=128874251&h=Mn23ik1pubuHcs%2fFuHiqcb%2bTPLeInr61WnT11j9iIuOGDcSc2nMV1kOmV%2bifjS2YA%2f%2fpj0bbEntUnegc%2fBzgbQ%3d%3d&crl=c&resultNs=AdminWebAuth&resultLocal=ErrCrlNotAuth&crlhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d09769242%26AN%3d128874251	Google scholar



# Annasaheb Dange College of B. Pharmacy, Ashta Ashta, Tal: Walwa, Dist: Sangli, Maharashtra, India – 416301

2.	General consideration of design and development of dosage forms: pre-formulation review	Sandip M. Honmane, Yuvraj D. Dange, Riyaz A. Osmani, Dhanraj R. Jadge	Pharmacy	Asian Journal of Pharmaceuti cs	2017	1998- 409x	https://www.asiapharmace utics.info/index.php/ajp/ind ex	https://doi.org/10.22377/ajp.v11i 03.1448	web of science,UGC
3.	Development and Validation of UV- Spectrophotomet ric Method for Estimation of Metformin in Bulk and Tablet Dosage Form	Yuvraj D. Dange, Sandip M. Honmane, Somnath D. Bhinge, Vijay R. Salunkhe, Dhanraj R. Jadge	Pharmacy	Indian Journal of Pharmaceuti cal Education and Research	2017	0019- 5464	https://www.ijper.org/	https://www.ijper.org/sites/defau lt/files/InJPhaEduRes_51_4s_75 4.pdf	web of science, scopus
4.	Solubility and dissolution enhancement of a bcs class ii drug by cogrinding with superdisintegrant s	Suraj N. Pattekari , Ajit S. Kulkarni	Pharmacy	Indi- American Journal of Pharmaceuti cal Research	2017	2231- 6876	https://www.iajpr.com/	https://zenodo.org/record/25260 79#.Y-NFjaBBzIV	Google scholar
5.	Formulation and Evaluation of Particulate Nasal Drug Delivery system for the Treatment of Migraine.	Jadhav V. V. Jagtap R.S., Doijad R. C., Desai J. R., Pol S. V., Pawar J. D., Jagtap S. R. Shete A. S.	Pharmacy	Journal of Biomedical And Pharmaceuti cal Research	2017	2279 - 0594	https://www.jbpr.in/index.php/jbpr	https://jbpr.in/index.php/jbpr/article/view/17	Index copernicus international
	Nasal Drug Delivery System:	Jadhav VV, Jagtap RS,	Pharmacy	World Journal of	2017	2277–	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/	Google scholar



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6.	Route for Braine Targetting	Doijad RC, Desai JR, Pawar JD, Pol SV, Waychal AA and Jagtap SR.		Pharmaceuti cal Research		7105		<u>1502946936.pdf</u>	
7.	Proniosomes: Penetration Enhancers in Transdermal Drug Delivery System	Jitendra R. Desai,Rajesh S. Jagtap , Rajendra C. Doijad , Savita V.Pol, Sneha R. Jagtap	Pharmacy	World Journal of Pharmaceuti cal Research	2017	2277– 7105	https://www.wjpr.net/	https://wjpr.s3.ap-south- 1.amazonaws.com/article_issue/ 1501482984.pdf	Google scholar
8.	Liquisolid Compacts: A Promising Approach For Solubility Enhancement	Pawar JD, Jagtap RS, Doijad RC, Pol SV, Desai JR, Jadhav VV, and Jagtap SR.	Pharmacy	Journal of Drug Delivery and Therapeutics	2017	2250- 1177	https://jddtonline.info/index.php/jddt	https://doi.org/10.22270/jddt.v7i 4.1466	Google scholar
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	Treatment	Jadhav VV	Research	7BVdlcDhUTlFfULUwCQ	<u>Treatment.pdf</u>	
		Jagtap SR	Technology	FGEAvMcN7aQt9ZuVRo		
				Cev8QAvD BwE		
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