

## CURRICULUM VITAE

**DR LILA KANTA NATH**

**D.O.B. : 01-01-1957**

### **Office Address**

Professor, Dept. of Pharmaceutical Sciences, Dibrugarh University,  
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### **Present Address**

# 704, Kabyashree Paradise, T.R.Phukan Road, Chowkidinghee,  
Dibrugarh - 786001

### **Permanent Address**

# G-4D, Protech Park, Hengerabari, Guwahati-36, Assam



### **Education:**

1. Bachelor Degree: B.Pharm (1981), Dr.H.S.Gour Vishwavidyalaya, Sagar, M.P.
2. Master Degree : M.Pharm (1983), Dr.H.S.Gour Vishwavidyalaya, Sagar, M.P.
3. Ph.D : Pharmaceutical Sciences (1991), Jadavpur University, Kolkata.
4. Other: : FIC (India)

### **Professional Experience:**

1. Lecturer in Pharmaceutics, Department of Pharmaceutical Sciences, Dibrugarh University-23<sup>rd</sup> December 1983 to 7<sup>th</sup> Feb. 1991
2. Reader in Pharmaceutics, Department of Pharmaceutical Sciences, Dibrugarh University- 8<sup>th</sup> Feb. 1991 to 19<sup>th</sup> Nov. 1996
3. Professor in Pharmaceutical Sciences, Department of Pharmaceutical Sciences, Dibrugarh University- **20<sup>th</sup> Nov. 1996 and Continuing**

### **Administrative Assignments:**

4. **Founder Teacher and Head**, Department of Pharmaceutical Sciences, Dibrugarh University, Assam during its **Establishment in Dec.1983** up to April 1985 & Oct, 1989 to Feb.1997.
5. Principal, Himalayan Pharmacy Institute, Majhitar, Sikkim-737136 for two years from Dec. 2004 to Nov,2006(On EOL with Lien from Dibrugarh University ).
6. Dean, School of Science and Engineering, Dibrugarh University -**Nov.2014 to Dec 2018**
7. Member of Expert Committee of AICTE since 1995
8. Member of Expert Committee of PCI since 2001.

**Extension Service:** Extending Service to PCI, IPA, APTI, AICTE etc.

**Areas of Interest/:** Pharmaceutics, Novel Drug Delivery System, Formulation Development  
**Specialization**

**Research Projects:**

Sl No	Funding agency	Project Title	Year of Funding
1.	AICTE	Purification & Characterization of Proteolytic enzyme from various species of plant	1995- 1996 ( 3yrs)
2.	AICTE	Screening of Anti-infective molecules from undisturbed soil strain & their biological screening.	1996 -1997(3yrs)
3.	AICTE	<i>Amaranthus spinosus</i> – Prospect source of a drug for the treatment of Nephrolithiasis	2002-2003 (3Yrs)
4.	AICTE	Formulation Development of Absorption Efflux Drugs and Study of the Influence of their Release pattern on the Pharmacokinetic Parameters	2007-2008(2Yrs)
5.	UGC	Formulation development of mucoadhesive tablet of Acyclovir using a novel binder isolated from <i>Phaseolus acontifolius</i>	2009-2011(2Yrs)
6.	AICTE	Evaluation of Chemically Modified Starches as Controlled Release Excipients	2010-2011(2Yrs)
7.	AICTE	Evaluation of Natural Polymers as Controlled Release Excipients	2011-2012(2Yrs)
8.	DBT	Phase transition mediated Targeting of thermo-sensitive polymer-drug conjugates to Human ovarian tumours	2016-2019(3Yrs)

**Other Projects:**

Sl No	Funding agency	Project Title	Year of Funding
1.	AICTE	Development of Laboratory facilities in Pharmaceutics in Himalayan Pharmacy Institute, Sikkim	2005-2006 (2Yrs)
2.	AICTE	Development of laboratory facilities in M.Pharm lab of the Dept. of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh	2009-2010(2Yrs)
3.	DST (FIST)	Development of Research facilities in the the Department of Pharmaceutical Sciences, Dibrugarh University	2014-2019(5Yrs)

**Ph.D. Awarded/On-going:**

Sl. No.	Name	Topic	Status (On-going /Completed)
1.	Dr. Dipak Chetia	“Isolation, Purification and Characterization of the Proteolytic Enzyme from the latex of <i>Ficus hispida</i> Linn.”	Completed (2000)
2.	Dr. S.K. Dash	“Chemical & Pharmacological Evaluation of some medicinal plants of Sikkim Himalayan Region”.	Completed (2007)
3.	Dr. L. Sutharson,	“Evaluation of Anti-inflammatory & Anti-cancer activities of some plants of Sub-Himalayan region of Sikkim”.	Completed (2008)
4.	Dr. Amitava Ghosh,	“Development & Evaluation of Frusemide loaded calcium alginate microcapsules”	Completed (2009)
5.	Dr. Biplab Kr. Dey	“Development of Propranolol Hydrochloride Transdermal Patches using Hydrophilic & Hydrophobic polymers and their evaluation”	Completed (2009)
6.	Dr.(Mrs) J. P. Mohanty,	“Studies on Pharmacological screening of the Bioactive molecules from selected Plants”.	Completed (2010)
7.	Dr. Nihar Ranjan Pani	“Formulation Development of Immediate and Controlled release Tablets of Absorption Efflux Drug and Study of the Influence of their Release Pattern on the Pharmacokinetic Parameters”	Completed (2010)
8.	Dr. Prasanna Kr. Kar,	“Chemical & Pharmacological Evaluation of Plants having ethno-medicinal use in tribes of Sikkim”.	Completed (2011)
9.	Dr. Abdul Baquee Ahmed	“Design and Development of Gastrointestinal Retentive Controlled Release Formulations of Nicorandil as Noval Oral Delivery System”	Completed (2011)
10.	Dr.Sudhir Kumar	“Oxygen-Glucose Deprivation Induced <i>in vitro</i> Model of Cerebral Stroke : Tool to Asses the Anti-Stroke Potential of Herbal Drugs”	Completed (2011)
11.	Dr. Ramteke K.	“Formulation and Evaluation of Controlled Release Colon Targeting Hydrogel Microspheres by using Natural Polysaccharides”	Completed (2011)

12.	Dr. Akhilesh V. Singh	” Evaluation of chemically modified starches as controlled release excipients”	Completed (2011)
13.	Dr. Bipul Nath	”Design and Development of Oral Colon Targeted Drug Delivery System Using Biodegradable Polymers”	Completed (2012)
14.	Dr.H.K. Sharma	“Design and Evaluation of Controlled Release Hydrogel Microspheres composed of natural Polysaccharides grown in Assam”	Completed (2013)
15.	Mr. Amal Kumar Baruah	“Evaluation of Chrysophyllum lanceolatum(Blume)DC and Musa balbisiana Cplla fruits for Bioadhesive excipients and their application in the formulation of Mucoadhesive tablets”	Completed (2016)
16.	Mr. Abhishek Bhattacharjee	“Design, Development and Evaluation of Oral Mucoparticulate Colon Targeted Delivery System of 6-Mercaptopurine for the treatment of Crohn’s disease”	Completed (2017)
17.	Ms. Shashi Verma	“Pharmacological Evaluation of some Ethnomedicinal Plants of North Eastern region of India”	Completed (2020)
18.	Mr. Prakash Rajak	“Development and Characterization of pH-responsive liquid crystal system of Anti-cancer Drug for Colon Targeting”	On-going
19.	Ms Debarupa Dutta	Targeting of Gemcetabine Hydrochloride into cancer Cells Through Stimuli Responsive Polymer-Drug Conjugate.	On-going
20	Mr. Muluneh Fromsa Seifu	Hyaluronic Acid-Anticancer Drug Conjugate Loaded Nanoliposomes for Site Specific Delivery.	On-going

### **Research Activity:**

***h-index ( up to June 2020) - 22***

- (A) Research papers published – 97
- (B) Papers presented in International Conference – 06
- (C) Papers presented in National Conference – 17
- (D) Review Articles published - 16
- (E) Books & Chapter Published- 01
- (F) Award/Achievement/Honour - 04

(A) Research Papers published :

Sl No	Title of the Paper	Authors (in the order maintaining the position)	Journal Name	Year of Publication	Vol.	Page No	Th. R. Impact Factor
1	Extraction and Study of Certain Physiochemical Properties of A New Proteolytic Enzyme from the Latex of <i>Jatropha curcas</i> Linn.	Nath, L.K. and Dutta, S.K.	Indian Journal of Pharmaceutical Sciences	1988	50	125-127	<b>0.762</b>
2	Kinetic Studies on Curcain, A Protease from the Latex of <i>Jatropha Curcas</i> Linn.	Nath, L.K. and Dutta, S.K.	Indian Journal of Pharmaceutical Sciences	1989	51	43-47	<b>0.762</b>
3	Formulation of Sustained Release Dosage Form of Bromhexine Hydrochloride	Nath, L.K. and Sharma, S.N.	The Eastern Pharmacist	1991	34	145-148	<b>Nil</b>
4	Extraction and Purification of Curcain, a Protease from the Latex of <i>Jatropha curcas</i> Linn	Nath, L.K. and Dutta, S.K.	J. Pharm. Pharmacol	1991	43	111-114	<b>2.571</b>
5	Wound Healing Response of The Proteolytic Enzyme Curcain	Nath, L.K. and Dutta, S.K.	Indian Journal of Pharmacology	1992	24	114-115	<b>0.599</b>
6	Extraction, Purification and Physico-Chemical Properties of a Proteolytic Enzyme from the Latex of <i>Ficus hispida</i> Linn.	Chetia, D., Nath, L.K. and Dutta, S.K.	Indian Journal of Pharmaceutical Sciences	1998	61	29-33	<b>0.762</b>
7	Purification and Characterisation of a Protease from <i>Ficus hispida</i> Linn	Chetia, D., Nath, L.K. and Dutta, S.K.	Indian Journal of Pharmaceutical Sciences	2001	63	132-136	<b>0.762</b>
8	Pharmacological Properties of a Protease From <i>Ficus hispida</i> Linn.	Chetia, D., Nath, L.K. and Dutta, S.K.	Ancient Science of Life	2001	21	99-110	<b>Nil</b>
9	A Flavonide from the Roots of <i>Heracleum nepalense</i> D.Don	Dash,S., Bhise, S.,Nath, L.K., & Bhattacharya, S.	Asian Journal of Chemistry	2006	18	1581-1582	<b>0.31</b>
10	Isolation and Characterisation of a Catechin Glycoside from the Leaves of <i>Colebrookea oppositifolia</i> Smith	Dash,S., Bhise, S., Nath, L.K., and Bhattacharya, S.	Journal of Ethnomedicinal Research	2006	9	161-163	<b>Nil</b>
11	Antioxidant and Antimicrobial activities of <i>Heracleum nepalense</i> D Don Root	Dash,S.,Bhise, S., Nath, L.K., and Bhuyan,N.	Tropical Journal of Pharmaceutical Research	2005	4	341-347	<b>0.48</b>
12	Simulation of Immune Function	Dash,S.,	Indian Journal	2006	38	336-340	<b>0.599</b>

	Activity by the Alcoholic Root Extract of <i>Heracleum nepalense</i> D. Don	Bhise, S., Nath, L.K, and Bhattacharya, S., Kar, P.	Of Pharmacology				
13	Anti-inflammatory and Antinociceptive Activities of Methanolic Extract of The Leaves of <i>Fraxinus Floribunda</i> Wallich	Lingadurai,S., Nath, L.K., Kar, P.K., Besra, S.E., and Joseph, R.V.S.	African Journal of Traditional, Complementary and Alternative Medicines	2007	4	411-416	<b>0.553</b>
14	Antiinflammatory and Antinociceptive Activities of Methenolic Extract of Leaves of <i>Bischofia javanica</i> Blume on Experimental Animals	Lingadurai,S., Nath, L.K., Kar, P.K., Besra, S.E., and Joseph, R.V.S.	Asian Journal of Chemistry	2007	19	5150-5156	<b>0.31</b>
15	A Study on the Effect of Different Acrylic Polymers on Frusemide Loaded Calcium Alginate Micropellets Prepared by Iontropic Gelation Technique	Ghosh, A., Nath, L.K.,and Roy, P.	"Pharmacy-on line" the international Forum of Pharmacy	2007		01--13	<b>Nil</b>
16	Hepatoprotective Effect of the Ethanolic Extract of <i>Urtica parviflora</i> Roxb. In CCl4 Treated Rats	Lingadurai,S., Nath,L.K., Kar, P.K., Das, S.and Nanda, B.	International Journal of Pharmacology	2007	3	362-366	<b>0.536</b>
17	Medicinal Plants Used Against Gastrointestinal tract Disorders by the Traditional Healers of Sikkim Himalayas	Chanda,R., Mohanty, J.P, Bhuyan N.R, Kar,P.K, and Nath,L.K.	Indian Journal of Traditional Knowledge	2007	6	606-610	<b>0.371</b>
18	A Study on the Effect of Different Acrylic Polymers on Frusemide Loaded Calcium Alginate Micropellets Prepared by Iontropic Gelation Technique	Ghosh, A., Nath, L.K., Dey B.K and Roy, P.	Indian Journal of Pharmaceutical Education and Research	2007	41	329-336	<b>0.109</b>
19	Development and Evaluation of Propranolol Hydrochloride Transdermal Patches by using Hydrophilic and Hydrophobic Polymer	Dey,B.K, Nath,L.K, Mohanti,B., and Bhowmic,B.B.	Indian Journal of Pharmaceutical Education and Research	2007	41	388-393	<b>0.109</b>
20	Antibacterial Spectrum of <i>Kaempferia Rotunda</i> Linn. and <i>Eupatorium Cannabinum</i> Linn	Mohanty,J.P, Nath,L.K., Bhuyan,N.R, and Maha-patra,S.K.	Advances in Pharmacology and Toxicology	2008	9	45-50	<b>Nil</b>
21	A Preliminary Study on Gastric Antiulcer activity of <i>Eupatorium</i>	Mohanty,J.P, Nath,L.K.,	International Journal of	2008	2	159-164	<b>Nil</b>

	<i>cannabinum</i> Linn In Rats	Bhuyan,N.R, and Nayak,U.K.	Pharmacology and Biological Sciences				
22	Evaluation of Antioxidant Potential of <i>Kaempferia rotunda</i> Linn	Mohanty,J.P, Nath,L.K., Bhuyan,N., and Mariappan, G.	Indian Journal of Pharmaceutical Sciences	2008	70	362-364	<b>0.762</b>
23	Design and Evaluation of Mucoadhesive Controlled Release Oral Tablets of Terbutaline Sulphate Using Some Natural Mucoadhesive Materials	Chanda,R., Nath,L.K., Mahapatra,S. and Dash,S.	Indian Drugs	2008	45	743-746	<b>Nil</b>
24	Free Radical Scavenging Activity of Leaves of <i>Bischofia javanica</i> Blume and <i>Fraxinus floribunda</i> Wallich	Lingadurai,S., Nath, L.K., Kar, P.K., Besra, S.E., and Joseph, R.V.S.	Pharmacology online	2009	1	1324- 1332	<b>0.310</b>
25	“Preparation and in vitro evaluation of Buccoadhesive tablet of Carvedilol using dried mucilage powder of <i>Angle marmelose</i> ”	Nath,B., Nath,L.K. and Kumar PY	Research J.Pharm and Tech	2009	2(4)	01-06	<b>0.08</b>
26	“Evaluation of Native Moth bean ( <i>Phaseolus acontifolius</i> jacq.) starch as tablet disintegrant”	Singh, A.V and Nath, L.K	Journal of Pharmacy Research	2009	2	878-880	<b>0.27</b>
27	“Evaluation of wound healing activity of leaves of <i>Urtica parviflora</i> Roxb and <i>Callicarpa Roxb</i> in Rats”	Kar PK, Nath LK and Nanda B	Pharmacology online	2009	1	1095- 1103	<b>0.310</b>
28	Evaluation of Binder Property of Moth bean Starch in compressed solid dosage form	Singh, A.V and Nath, L.K	International Journal of PharmTech Research	2009	1	365-368	<b>0.36</b>
29	Preparation and in-vitro Evaluation of Gastric Floating Microcapsules of Metformin HCl	Nath,B., Nath,L.K., Mazumdar,B., Sharma,N.K., Sarkar,M.K.	Indian Journal of Pharmaceutical Education and Research	2009	43	177-186	<b>0.109</b>
30	Evaluation of Physicochemical Character and Pasting Behaviour of <i>Phaseolus acontifolius</i> Jacq. Starch	Singh, A.V and Nath, L.K	Electronic Journal of Environmental, Agricultural and Food Chemistry	2009	8	984-990	<b>0.50</b>
31	Proteins and Peptide Drugs : A Brief Review	Singh,A.V., Pandey, R.,	Research J. Pharm. and	2009	2	228-233	<b>0.08</b>

		Tripathi, P and Nath,L.K	Tech.				
32	Formulation Design, Preparation and In-vitro, In-vivo Evaluation of Propranolol Hydrochloride Transdermal Patches using Hydrophilic and hydrophobic polymers Complex	Dey,B.K., Kar,P.K., Nath,L.K.	Research J. Pharm. and Tech	2009	2	155-160	<b>0.08</b>
33	Development and Evaluation of Acyclovir Mucoadhesive Tablet using a Novel starch based Platform	Singh, A.V and Nath, L.K	Latin American Journal of Pharmacy (formerly Acta Farmaceutica Bonaerense)	2010	29	279-283	<b>0.329</b>
34	Formulation Development of Oral Mucoadhesive Coated Terbutaline Sulphate Tablets Using Natural Materials Extracted From Edible Fruits available in India	Chanda,R., Nath,L.K., and Mahapatra,S.	Iranian Journal of Pharmaceutical Sciences	2009	5	03--12	<b>0.39</b>
35	Development, Evaluation and Optimization of Baclofen Oral Floating Tablet	Singh, A.V, Pandey,R.D, Nath, L.K, and Das,A.	Latin American Journal of Pharmacy (formerly Acta Farmaceutica Bonaerense)	2010	29	562-567	<b>0.329</b>
36	Formulation and In-vitro evaluation of Natural Polymer Based Microspheres For Colonic Drug Delivery	Mzumder,R., Nath,L.K, Haque,A., Maity,T., and Pal,R.N.	International Journal of Pharmacy and Pharmaceutical Sciences	2010	2	211-219	<b>0.66</b>
37	Synthesis and Application of Carboxymethyl Moth bean Starch as Superdisintegrant in Pharmaceutical Formulation	Singh,A.V, Nath,L.K., Pandey,R.D., and Das,A.	Journal of Polymer Materials	2010	27	173-177	<b>0.377</b>
38	Anogeisus latifolia: A Recent Update on its Cemistry and Pharmacological Application	Singh,A., Singh,A.V., Nath,L.K, Ghosh,T.K.	Pharmacology online	2010	2	446-449	<b>0.310</b>
39	Optimization and Formulation of Immediate Release Tablet of Nateglinide by using 3 square Factorial Designs	Pani NR., Nath,L.K.	International Journal of PharmTech Research	2010	2	1978-1984	<b>0.36</b>
40	Design and development of Sustained Release Chitosan-Bora Rice Microspheres for Targeted Drug Delivery to the Colon	Ramteke K.H, Bhattacharya, A., Nath,L.K.	An International Journal of Pharmaceutical Research	2010	2	33-38	<b>0.07</b>
41	Formulation development, and optimization of immidiate	Pani,N.R., Nath,L.K.,	Drug Discoveries and	2010	4	453-458	<b>1.110</b>



	release nateglinide tablets by factorial design	Bhunias,B.	Therapeutics				
42	Kinetic Modeling on Drug Release from Controlled Drug Delivery Systems	Dash, S.K., Nath, L.K., Murthy,P.N. and Chowdhury,P	Acta Poloniae Pharmaceutica	2010	67	217-223	<b>0.877</b>
43	Pharmaceutical, Food and Non-Food Application of Modified Starches : A Critical Review	Singh, A.V., Nath, L.K., and Singh, A.	Electron.J.Envir on.Agric.Food Chem	2010	9	1214- 1221	<b>0.50</b>
44	Microwave Assisted synthesis and evaluation of Cross-linked Carboxymethylated Sago Starch as Superdisintegrant	Singh,A.V, Nath,L.K., Guha,M.,Kum ar,R.	Pharmacology and Pharmacy	2011	2	pp	<b>2.363</b>
45	Microwave Assisted synthesis and evaluation of Modified Pea Starch as Tablet Superdisintegrant	Singh,A.V.,Si ngh,A.,and Nath,L.K,	Current Drug Delivery	2011	8	203-207	<b>1.446</b>
46	Application of DSC, IST and FTIR study in the compatibility testing of nateglinide with different pharmaceutical excipients	Pani,N.R., Nath,L.K., Acharya,S. and Bhuniya,B.	J Therm Anal Calorim	2011	2	1299- 1307	<b>1.781</b>
47	Compatibility Studies of Nateglinide with excipients in immediate release tablets	Pani, N.R., Nath,L.K.,and Acharya,S.	Acta Pharm	2011	61	237-247	<b>1.212</b>
48	Synthesis and characterization of highly acetylated sago starch	Singh,A.V, Nath,L.K., and Guha,M.	Starch/Starke	2011	Doi/10 .1002/ star.20 11000 12	01-05	<b>1.795</b>
49	Synthesis and Characterization of highly substituted acetylated Moth Bean Starch	Singh,A.V, Nath,L.K., and Guha,M.	Journal of Polymer Materials	2011	28	277-285	<b>0.377</b>
50	Evaluation of Compatibility of tablet excipients and novel synthesized polymer with Lamivudine	Singh,A.V, Nath,L.K	J Therm Anal Calorim	2011	Doi/10 .1007/ s1097 3-011	1650- 1652	<b>1.781</b>
51	Microwave Assisted Synthesis and Characterization of <i>Phaseolus aconitifolius</i> starch-g-acrylamide	Singh,A.V, Nath,L.K., and Guha,M.	Carbohydrate Polymers	2011	Doi/10 .1016/j carbpo l.2011. 05.029	872-876	<b>4.219</b>
52	Synthesis and evaluation of physicochemical properties of cross-linked <i>Phaseolus aconitifolius</i> starch	Singh,A.V, Nath,L.K	Starch/Starke	2011	Doi/10 .1002/ star.20 11000 34	655-660	<b>1.795</b>
53	Synthesis, Characterization and compatibility study of acetylated	Singh,A.V, Nath,L.K	J Therm Anal Calorim	2011	Doi/10 .1007/		<b>1.781</b>

	starch with Lamivudine				s1097 3-011- 1752		
54	Evaluation of Compatibility of Lamivudine with Tablet excipients and a novel synthesized polymer	Singh,A.V, Nath,L.K	Journal of Materials and Environmental Science	2011	2	243-250	<b>0.28</b>
55	Preparation and in-vitro Dissolution Profile of Zidovudine Loaded Microsphere Made of Eudragit RS 100, RL100 and Their Combinations	Nath,B., Nath,L.K.,and Kumar,P.	Acta Poloniae Pharmaceutica-Drug Research	2011	68	409-415	<b>0.877</b>
56	Preparation and Characterization of Solbutamol Sulphate Loaded Ethyl Cellulose Microsphere using Water-in-oil-oil emulsion Technique	Nath,B., Nath,L.K., Kumar,P., Mazumdar B., Sharma,N.K., and Kumar P.	Iranian Journal of Pharmaceutical Research	2010	9	97-105	<b>1.352</b>
57	Fabrication and in-vitro evaluation of Floating matrix tablet of Nicorandil using factorial design	Ahmed,A.B., Nath,L.K.	Journal of Pharmacy Research	2011	4	1950-1954	<b>0.27</b>
58	Evaluation of <i>Trapa bispinosa</i> Roxb. Starch as Pharmaceutical Binder in Solid dosage Form	Singh,A., Singh,A.V., Nath,L.K and Pani,N.R.	Asian pacific Journal of Tropical Biomedicine	2011		01--04	<b>1.30</b>
59	Antileukemic activity of the extract of <i>Bischofia javanica</i> blume on human leukemic cell lines	Lingadurai,S., Roy,S., Nath, L.K. and Joseph, R.V.	Indian Journal of Pharmacology	2011	43	143-149	<b>0.599</b>
60	Evaluation and Comparison of Treated-untreated Assam Bora Rice Flour for as Directly Compressible Agent	Sharma,H.K., Mukherjee,A. and Nath,L.K.	Int J Cur Biomed Phar Res	2011	1	173-177	<b>Nil</b>
61	Microwave assisted synthesis and Characterization of Sago starch-g-acrylamide	Singh,A.V, Nath,L.K., and Guha,M.	Starch/Starke	2011	Doi/10 .1002/ star.20 11000 41	01--06	<b>1.795</b>
62	Development and Validation of Analytical Method for the estimation of Lamivudine in rabbit plasma	Singh,A.V., Nath,L.K and Pani,N.R.	Journal of Pharmaceutical Analysis	2011	1	251-257	<b>2.673</b>
63	Synthesis and evaluation of physiocochemical properties of cross-linked Sago starch	Singh,A.V., Nath,L.K	International Journal of Biological Macromolecules	2012	50	14-18	<b>3.138</b>
64	Evaluation of Acrylamide Grafted Moth bean starch as controlled release excipient	Singh,A.V., Nath,L.K	Carbohydrate Polymers	2012	87	2677-2682	<b>4.219</b>

65	Evaluation of acetylated moth bean starch as a carrier for controlled drug delivery	Singh,A.V., Nath,L.K	International Journal of Biological Macromolecules	2012	50	362-368	<b>3.138</b>
66	Formulation, Evaluation and Opti.. of Controlled release Hydrogel Microsphere for Colon Targeted Drug Delivery	Ramteke,K.H., Nath,L.K.	Journal of Pharmaceutical Sciences and Research	2012	4	1739-1747	<b>0.13</b>
67	Evaluation of Chemically modified Hydrophobic sago starch as a carrier for controlled drug delivery	Singh,A.V., Nath,L.K	Saudi Pharmaceutical Journal	2012	xxx	01--08	<b>2.233</b>
68	Design, development and optimization of oral colon targeted drug delivery system of azathioprine using biodegradable polymers	Nath,B., Nath,L.K.	Pharmaceutical Development and Technology	2012	Doi/10.3109/10837450.2012.727002	01--09	<b>1.566</b>
69	Formulation development and in-vitro/ in-vivo correlation for a novel sterculia gum-based oral colon targeted drug delivery system of Azathioprine	Nath,B., Nath,L.K.	Drug Development and Industrial Pharmacy	2012	Doi/10.3109/03639045.2012.736517	01--09	<b>2.429</b>
70	Design, Development and Optimization of sterculia Gum-based Tablet Coated with Chitosan/Eudragit RLPO Mixed Blend Polymers for Possible Colonic Drug Delivery	Nath,B., Nath,L.K.	Hindawi Publication corporation, Journal of Pharmaceutics	2012		01--09	<b>Nil</b>
71	Development and Validation of analytical method for the estimation of nateglinide in rabbit plasma	Pani,N.R., Nath,L.K, Singh,A.V., and Mahapatra,S.K	Journal of Pharmaceutical Analysis	2012	2	492-498	<b>2.673</b>
72	Formulation Evaluation and Optimization Of Pectin-Bora Rice Beads for Colon Targeted Drug Delivery System	Ramteke,K.H., Nath,L.K.	World Academy of Science, Engineering and Technology	2012	69	373-390	<b>Nil</b>
73	Formulation development and evaluation of Lamivudine controlled Release Tablets using cross-linked sago starch	Singh,A.V., Nath,L.K	Expert Opin. On Drug Delivery	2013	Doi:10.1517/17425247.2013.738665	01-10	<b>4.84</b>
74	Development and Characterisation of metformin loaded spray dried Bora rice Microspheres	Sharma,H.K., Mohapatra,J., Nath,L.K.	Pak. J. Pharm. Sci.	2013	26	17-22	<b>0.581</b>

75	Extraction , Characterization and Compatibility Study of Polysaccharides From <i>Dillenia indica</i> and <i>Abelmoschus esculentus</i> with Metformin Hydrochloride for Development of Drug Delivery System	Sharma,H.K., Lahkar,S., and Nath,L.K.	International Journal of PharmTech Research	2013	5	275-283	<b>0.36</b>
76	Studies on Sterculia gum Formulation in the form of osmotic core tablet for colon specific drug delivery of Azathioprine	Nath,B., Nath,L.K.	PDA Journal of Pharmaceutical Science and Technology	2013	67	172-184	<b>1.07</b>
77	Formulation and In-vitro evaluation of Metformin hydrochloride loaded microspheres prepared with polysacchride extracted from natural sources	Sharma,H.K., Lahkar,S., and Nath,L.K.	Acta Pharm.	2013	63	207-220	<b>1.212</b>
78	Evaluation of microwave assisted grafted sago starch as controlled release polymeric carrier	Singh,A.V., Nath,L.K	International Journal of Biological Macromolecules	2013	60	62-68	<b>3.138</b>
79	An Ethnopharmacological Survey of Plants Located In Indo-Chinese Border Of Ner, India	Bhuyan,B., Nath,L.K., and Rajak,P.	American Journal of Pharmtech Research	2014	4	130-137	<b>1.123</b>
80	“ Development of Controlled Release Tablet by Optimizing HPMC: Consideration of Theoretical Release and RSM” Carbohydrate	. Pani, N. R., Nath, L.K	Polymers,	2014	104	238-245	<b>3.50</b>
81	“Drug-Excipient Compatibility Studies of Nicorandil in Controlled release Floating Tablets”,	Ahmed.AB., Nath LK	Int,J.Pharmacy and Pharm Sciences,	2014	6(2)	468-475	<b>0.66</b>
82	“ Application of Assam Bora Rice Starch as a Binder in Formulation of paracetamol Tablets”	Rajak P, Nath LK. and Bhuyan B.	Int,J.Pharmacy and Pharm Sciences,	2014	6(5)	118-120	<b>0.66</b>
83	“A review on pathophysiology of ischemic-reperfusion injury of heart and ameliorating role of flavonoids and polyphenols”	Jiban Debnath, L. K. Nath	J. Med. Plant Res.	2014	8(16)	607-614	<b>0.33</b>

84	“A High Performance Liquid Chromatographic Method for Estimation of Doxetaxel in Solid Lipid Nanoparticles”,	Mozumder ZI, Nath LK	Int.J.innovativ e Pharm Sci and Res,	2015	3(8)	1058- 1065	<b>2.00</b>
85	“ Extraction, Purification and Physicochemical Evaluation of Mucilage of <i>Chrysophyllum lanceolatum</i> (BLUME) DC Fruits : An InvestigationforBioadhesive Property”,	Boruah AK and Nath LK	Int.J.Pharmacy and Pharm.Sci.	2016	8(2)	282- 288	<b>0.66</b>
86	“ Design, Development and In vitro Evaluation of Oral Microparticulate Colon Targeted Drug delivery System of 6-Mercaptopurine”	Bhattacharjee A. and Nath L.K	J Pharm Research.	2016	5(4)	68-78	<b>0.27</b>
87	‘Pharmacognostic and Phytochemical Evaluation of Flower of <i>Tupistra nutans</i> Wall”	Verma S and Nath LK	British J Pharm and Med Research.	2016	01(2)	74-79	<b>Nil</b>
88	“Analytical Standards for the Flowers of <i>Tupistra nutans</i> Wall.-A Rare Medicinal Plant of Sikkim Himalayan Region”	Verma S and Nath LK	Der Pharmacia letter.	2016	8(19)	48-56	<b>0.24</b>
89	‘Pharmacognostic and Phytochemical Study of Roots of Ativisha ( <i>Aconitum heterophyllum</i> ) Wall”	Verma S and Nath LK	British J Pharm and Med Research.	2016	01(3)	164- 170	<b>Nil</b>
90	“Recent Progress in Smart Polymers; Mechanistic Understanding and Application”	Dutta Chakraborty D, Nath LK, and Chakraborty P.	Polymer- Plastic Technology and Engineering	2017	Doi.or g/10.1 080/03 60255 9.1364 383	01-13	<b>1.82</b>

91	“Analytical standards for the root tubers of <i>Aconitum heterophyllum</i> wall. ex royle. -a rare medicinal plant of sikkim himalayan region”	Verma S and Nath LK	Int. J. of Applied Biol. and Pharm. Technology	2017	8(3)	43-51	<b>0.24</b>
92	“Characterization of Mucoadhesive Properties of pH Responsive Mesophases based on Monoolein and Oleic Acid”	Rajak P and Nath LK	European Journal of Biomedical and Pharm. Sciences	2018	5(3)	396-403	<b>1.50</b>
93	“Polymer – Drug Conjugates: Novel Carriers for Cancer Chemotherapy”	Seifu MF and Nath LK	Polymer-Plastic Technology and Engineering	2018	Doi.org/10.1080/03602559.2018.1466172	01-14	<b>1.82</b>
94	“Ovarian Cancer -The Silent Killer”	Dutta D and Nath LK	Journal of Tumor Research	2018	3(3)	01-06	<b>Nil</b>
95	“Evaluation of pH Responsive Flipping Mechanism of 5-Fluorouracil Loaded LLC System for Colon Targeting”	Rajak P, Nath LK and Mazumder B	Journal of Pharmaceutical Innovation	2020	Doi.org/10.1007/s12247-019-09425-0	01-11	<b>2.2</b>
96	“Development and Optimization of Metformin Hydrochloride Loaded Hydrogel Microspheres Prepared with Natural Polymers”	Sharma HK and Nath LK	Asian Journal of Pharmaceutics	2020	14(1)	58-71	<b>0.46</b>
97	“Targeting Ovarian solid tumors by pH triggered thermosensitive peptide-doxorubicin conjugate”	Santhosh SB, Dutta D, Nath LK, Nanjan MJ and Chandrasekar MJN	Journal of drug delivery science and technology	2020	Doi.org/10.1016/j.jddst.2020.101856	01-10	<b>2.543</b>
98	Targeting Gemcetabine hydrochloride to tumor microenvironment through stimuli-responsive nano-conjugate: Synthesis	Debarupa Dutta, Lila Kanta Nath, P.Chakraborty	Journal of drug delivery science and technology	2020	Doi.org/10.1016/j.jddst.2020.101981	02-11	<b>2.543</b>

Characterization, and <i>in vitro</i> assessment	& D.Dutta						
							<b>Total- 96.786</b>

***(B) Papers presented in International Conference:***

1. Nath LK, "Acute Toxicity Studies and Wound Healing Response of the Protease isolated from the Latex of *J. curcas* Linn." Presented in the **International Symposium on "Biofuel and Industrial Products from *J. curcas* and other Tropical Oil Seed Plants"** held at Nicaragua (Central America) from 23rd to 27th Feb,1997.
2. Nath LK and Singh AV "Formulation and Evaluation of Lamivudine Controlled Release Tablet using Modified Starch" Presented in **the International Conference "12th Pacific Polymer Conference"** held at Jeju Island, South Korea during 13- 17 Nov, 2011
3. Ramteke K and Nath LK, "Formulation, Evaluation and Optimization of Pectin-Bora rice Beads for Targeted Drug Delivery to the Colon" presented in the **International conference on "Multidisciplinary Approaches to Modern Therapeutics: Joining Forces for a Healthier Tomorrow"** held at Hilton Montreal Bonaventure, Montreal, QC, Canada. During 24th to 27th May,2011, Abst.-194, P.-41
4. Singh AV, Nath LK, "Evaluation of modified starch as controlled release polymer in lamivudine controlled release tablets", presented in the **International Seminer held at Sao Paulo School of Advanced studies, Sao Paulo, Brazil on 14th – 18th August, 2011**
5. Nath LK and Singh AV "Formulation and Evaluation of Lamivudine Controlled Release Tablet using Modified Starch" Presented in **the International Conference "Recent Advances in Pharmaceutical Science : Transferring Knowledge from Education to Practice"** held at Kathmandu, Nepal, during 25th to 26th February, 2012
6. Nath LK and Pani NR "Influence of P-Glycoprotein on the Absorption of Nateglinide Through Rat Intestine" Presented in the **2nd Annual International Conference on Pharmacology and Pharm. Sciences held at Singapore during 27-28 October, 2014**

***(C) Papers presented in National Conference:***

1. Nath LK, "Isolation and Study of certain Physico-chemical Properties of the Protease from the Latex of *J. curcas* Linn." Presented in the 39th Indian PharmaCeutical Congress held at Madras from 1st to 3rd January, 1988.
2. Nath LK, "Kinetics of Thermal inactivation, pH-stability and Enzyme-Substrate reaction of the protease (curcain) from the latex of *J.curcas* Linn." Presented in the 40th Indian Pharmaceutical Congress held at Calcutta from 26th to 28th Dec', 1988.
3. Chetia D and Nath LK, "Isolation & Study of some Physico-chemical Properties of the Proteolytic Enzyme from the Latex of *Ficus hispida* Linn." Presented in the 45th Indian

Pharmaceutical Congress held at New Delhi from 23th to 25th Dec', 1993.

4. Dash Sk and Nath LK, "Evaluation of Antioxident and Immunostimulatory potentiality of *Dactylorhiza hatagirea* (D. Don) Soo: An Ethno medicine" Presented in the 57th IPC, Hyderabad, 2nd – 4th Dec. 2005.
5. Chandra R and Nath LK, "Market survey of pharmaceutical products in India" presented in the 57th IPC, Hyderabad, 2nd – 4th Dec. 2005.
6. Singh AV, Nath LK. "Evaluation of Moth Bean Starch Isolated from *Phaseolus acontifolius* JACO. As a Tablet Excipient" presented in the 60th IPC, New Delhi, 12th – 14th Dec.2008, PH -333
7. Pani N and Nath LK, "Formulation and Evaluation of Immediate Release Tablets by using Gradient Concentration of Superdisintegrants" presented in 60th IPC, New Delhi, 12th – 14th Dec.2008, PH -539
8. Pani N and Nath LK, " Formulation and Evaluation of Immediate Release Tablets of Neteglinide" presented in the 60th IPC, New Delhi, 12th – 14th Dec.2008, PH –
9. Singh AV, Nath LK "Formulation and Evaluation of Acyclovir mucoadhesive tablets using a new Platform for NDDS" presented in the National Seminar organized by AICTE, at Salipur, Maharashtra, June.2008, Abst.-64
10. Singh AV, Nath LK "Evaluation of Novel Pregelatinized starch as Binder in Paracetamol Tablets" presented in the National Seminar on Pharmaceutical Sciences at CDRI, Lucknow, march.2009, Abst.-
11. Kumar S and Nath LK, "Optimization of Experimental Conditions to Develop in vitro Model of Ischemic Stroke using PC12 Cells" presented in the National conference on Current Status and Challenges in Pharmacy and Healthcare held at University Institute Of Pharmaceutical Education, CSJM University, Kanpur on 28th March, 2010.
12. Singh AV, Nath LK "Compatibility evaluation of novel synthesized polymers with Lamivudine using thermal and non-thermal methods" presented in International conference on RAPS, held at IT- BHU, India on 22-23 December-2010.
13. Singh AV, Nath LK "Synthesis and evaluation of chemically modified starch as novel biomaterial for sustained drug delivery(SDD01)" presented in International conference on Nanobiotechnology held at Jamia Milia Islamia University, New Delhi, India held on 2-4 December-2010.
14. Singh AV, Nath LK "Microwave assisted synthesis and evaluation of pH responsive sago starch grafted acrylamide as biomaterial for drug delivery (SDD03)" presented in International conference on Nanobiotechnology held at Jamia Milia Islamia University, New Delhi, India, held on 2-4 December-2010.
15. Singh AV, Nath LK "Synthesis, optimization and evaluation of cross-linked starch as a novel polymer for drug delivery" presented at PSE-2010 held at Chandigarh University, Punjab, India held on 26-27 November-2010.
16. Singh AV, Nath LK "Microwave assisted synthesis, reaction parameter optimization and evaluation of acrylamide grafted sago starch, presented at PSE-2010 held at Chandigarh



University, Punjab, India, held on 26-27 November-2010.

**(D) Review Articles Published :**

1. Nath, L.K., "Enzyme and its Importance in Pharmacy and Medicine", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1986, 1 : 24-28.
2. Nath, L.K., "Proteolytic Enzymes and their Applications", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1987-88, 2 : 16-21.
3. Nath, L.K., "Liposomes - their Applications in Enzyme Therapy", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1988-89, 3 : 19-23
4. Nath, L.K., "Zeta potential and its Applications", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1990-91, 4 : 11-16
5. Nath, L.K., "Solid Dispersion – a method for enhancing Bioavailability of Poorly soluble Drugs", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1992-93, : 14-18.
6. Nath, L.K., "Pharmacological and Social aspects of Drug Abuse", Jilikaba Luitor Paar, Natun Prabhat Publications, Dibrugarh, 1993, I (1), 5-8.
7. Nath, L.K., "Biotechnology: Its Applications and Prospects", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1994-95, 6 : 42-46.
8. Nath, L.K., "Development of Ayurvedic System of Medicine –its Importance", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1995- 96, 7 : 25-30.
9. Nath, L.K., "Development of Pharmacy Practice to Enter into a New age", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1996-97, 8 : 1-9.
10. Nath, L.K., "Surfactants and their Role in Pharmaceutical Formulations", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1997-98, 9 : 1-6.
11. Nath, L.K., "Food and Water Hygiene for the Travelers", Pharmray, The Official Publication of the Pharm. Society of Dibrugarh University, 1999-2000, 11:
12. Nath, L.K., " Technical Education System – Needs Review", NPW Souvenir published on the 42nd NPW, by-The Institute of Pharmacy, G.M.C., Nov' 2003, 5-8.
13. Nath, L.K., "Pharmacy Education – Growth, Vision and Action" Pharma News Letter. 1(1), 2008, 04-06

**(E) Books and Book Chapters:**

1. Nath B., Nath L.K. (2011). Gastric Floating Microcapsules of Metformin HCl – Methods, Evaluation and Applications. LAP LAMBERT Academic Publishing gmbH & Co. KG, Germany.

**(F) Award/Achievement/Honour :**

1. Awarded the Best paper published prize in 2012 from the JPA ( Journal of Pharmaceutical Analysis ), China for the paper entitled “Development and Validation of Analytical Method for the Estimation of Nateglinide in Rabbit Plasma”
2. The Research Paper entitled “Kinetic Modeling on Drug Release from Controlled Drug Delivery Systems” published in Acta Poloniae Pharmaceutica, 2010,67(3),217-223 has been ranked 5<sup>th</sup> out of top 10 publication in the subject area “Pharmacology, Toxicology and Pharmaceutics” as per the Bibliometric Analysis “ International Performance of India’s Research Base (2009-2014) made by NSTMIS, DST, GOI
3. Performed as the Chairperson in the Scientific Session of “Pharmaceutical Technology” in the 60th Indian Pharmaceutical Congress, held at New Delhi during 12th to 14th Dec.2008,
4. Organized the International Conference on “*Harnessing the Sub Himalayan Plant Diversity for Human Welfare*” as Convener in Dibrugarh University during 11<sup>th</sup> to 13<sup>th</sup> March, 2015 as a part of the celebration of its Golden Jubilee year.

( L. K. Nath )