

## BIODATA



**Centre/School/Special Centre: School of Natural Resources**

**Department: Pharmacy**

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**Dr S.K. Lanjhiyana**

**Qualifications: M.Pharm., Ph.D.**

**Area of Interest/ Specialization: Pharmaceutics**

**Experience: 18 Years**

### Research Projects

<b>UGC</b> (Major Research Project)	“Dosage form development and evaluations of phytomedicines for effective treatment of lymphatic filariasis disease prevalent among Indian populations”, 2013-16
<b>AICTE</b> (Research Promotion Scheme)	“Development and characterization of natural biodegradable polysaccharides based multiparticulate formulations for effective targeting to colon for management of inflammatory bowel diseases”, 2014-17
<b>CCOST</b> (Minor Research Project)	“Development & evaluation of colon specific drug delivery systems for some anti-cancer drugs”, 2007-10

### List of Publication

#### Research Papers published in Journals

S. No.	Title with page No.	Journal	ISSN/ISBN No.	Whether peer reviewed/impact factor, if any
1.	Oral antihyperglycemic potential of root bark extract of <i>E. glaucum</i> Pers. In normal and streptozotocin induced diabetic rats, Oct. 2007, 6(4), 197-200.	Journal of Pharmaceutical Research	0973-7200	Peer reviewed, referred & indexed
2.	Preparation & In Vitro Drug Release Studies from Modified Pulsincap Capsules, 2007, 44(3);	Indian Drug	0019-462X	Peer reviewed, referred & indexed

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	180-184.			
3.	Colonic Specific Delivery of 5-Fluorouracil: An In Vitro-In Vivo Testing Utilizing Guar Gum Polysaccharide As Carrier Matrix, 2008; Vol. 7; (2); 101-105.	Journal of Pharmaceutical Research	0973-7200	Peer reviewed, referred & indexed
4.	Development and In-Vitro Drug Release Studies of Methotrexate from Modified Pulsatile Release Guar Gum Based Enteric Coated Capsules For Colon Specific Delivery, 2008; Vol. 42 (2); 154-160.	Indian Journal of Pharmaceutical Education & Research	0019-5464	Peer reviewed, referred & indexed (Impact Factor: 0.425)
5.	Role of Glycosylated Hemoglobin in Diabetic Patients associated with Hyperlipidemia in Chhattisgarh Region: A Biochemical Analysis, 2010; 2(1); 45-50.	International Journal of Toxicological and Pharmacological Research	0975-5160	Peer reviewed, referred & indexed
6.	Biochemical Investigation of Glycosylated Haemoglobin in Diabetes Associated Nephropathy in Chhattisgarh Population. 2010, 1 (2): 106-113.	Advances in Applied Science Research	0976-8610	Peer reviewed, referred & indexed
7.	A Systematic Study on the Glycosylated Haemoglobin in Diabetes Associated Neuropathy in Chhattisgarh Population., 2010, 1(2): 122-129	Der Pharmacia Sinica	0976-8688	Peer reviewed, referred & indexed
8.	“In-Vitro and In-Vivo Release Studies of Methotrexate from Novel Enteric Coated Time-dependent Microbial-Triggered Drug Delivery Systems for Colon Specific Targeting”. 5(1), 2010; 124-130.	International Journal of Pharmaceutical Sciences Review & Research	0976-044X	Peer reviewed, referred & indexed
9.	A Systematic Study on the Glycosylated Haemoglobin in Diabetes Associated hypertension in Chhattisgarh Population, 2010, 1 (3): 79-85.	Der Pharmacia Sinica	0976-8688	Peer reviewed, referred & indexed
10.	A Systematic Study on the Glycosylated Haemoglobin in Diabetes Associated obesity in Chhattisgarh Population, 2010, 1 (3): 112-117	Advances in Applied Science Research	0976-8610	Peer reviewed, referred & indexed
11.	In-vitro Drug Release Studies of 5-Fluorouracil from Novel Enteric Coated Capsules Utilizing Combined Approaches of pH-dependent and microbial triggered biodegradable polysaccharides for Colon Specific Delivery, 2010,	Der Pharmacia Lettre	0975-5071	Peer reviewed, referred & indexed

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	2(4): 255-273.			
12.	“In-Vitro and In-Vivo Release Studies from Enteric Coated Drug Delivery Systems Utilizing Microbial Triggered Biodegradable Guar Gum Polysaccharides for Colon Specific Targeting”, 2011, Vol. 3 (1), 33-41.	Journal of Global Pharma Technology	0975-8542	Peer reviewed, referred & indexed
13.	Antidiabetic activity of Methanolic extract of root bark of Aegel marmelos in Alloxan-induced animal model, 2011, 2(1):57-72.	Der Pharmacia Sinica	0976-8688	Peer reviewed, referred & indexed
14.	Antihyperglycemic potential of Aloe vera gel in experimental animal model, 2011, 2 (1):17-31.	Annals of Biological Research	0976-1233	Peer reviewed, referred & indexed
15.	Hypoglycemic activity studies on aerial leaves of Pongamia pinnata (L.) in Alloxan-induced diabetic rats, 2011, 3(1): 55-70.	Der Pharmacia Lettre	0975-5071	Peer reviewed, referred & indexed
16.	Antidiabetic activity of Methanolic extract of stem bark of Elaeodendron glaucum Pers. in Alloxanized rat model 2011, 2(1), 47-62.	Advances in Applied Science Research	0976-8610	Peer reviewed, referred & indexed
17.	Hypoglycemic activity studies on root extracts of Murraya koenigii root in Alloxan-induced diabetic rats 2011, 1 (2): 91-104	Journal of Natural Product and Plant Resources	0975-5071	Peer reviewed, referred & indexed
18.	Pharmacognostic Standardization and Hypoglycemic Evaluations of Novel Polyherbal Formulations, 2011, 3(1): 319-333.	Der Pharmacia Lettre	0975-5071	Peer reviewed, referred & indexed
19.	A validated HPTLC Method for Simultaneous estimation of two marker compounds in Aegle marmelos (L.) Corr., (Rutaceae) root bark, 2012, 4 (1):92-97	Der Pharmacia Lettre	0975-5071	Peer reviewed, referred & indexed
20.	Development and Validation of a HPTLC method for determination of Karanjin in Pongamia pinnata: A novel Indian medicinal plant, 2012, 3 (1):144-147	Der Pharmacia Sinica	0976-8688	Peer reviewed, referred & indexed
21.	Chitosan-sodium alginate blended polyelectrolyte complexes as potential multiparticulate carrier system: colon targeted delivery and gamma scintigraphy imaging, 2013,10(1):5-15	Expert Opinion on Drug Delivery	1742-5247	Peer reviewed, referred & indexed (Impact Factor: 4.84)

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22.	Fabrication and Evaluations of Dual Crosslinked Mesalamine containing Pectin- Chitosan gel micro beads for controlled and targeted colon delivery 2018; 11(11): 4797-4804	Research Journal of Pharmacy and Technology	0974-360X	Peer reviewed, referred & indexed
23.	Formulation and evaluations of methotrexate loaded multiparticulate system for colon targeting: In vitro and surface morphology 2019; 12(5): 2067-2074	Research Journal of Pharmacy and Technology	0974-360X	Peer reviewed, referred & indexed
24.	“Drug release kinetic modeling and gamma scintigraphic studies of dual Ca <sup>2+</sup> and SO <sub>4</sub> <sup>2-</sup> cross linked microbeads for colon specific targeting”; Oct-Dec 2020, 14(4), 661-69.	Asian Journal of Pharmaceutics	ISSN : 1998-409X	Peer reviewed, referred & indexed (Impact Factor: 0.460)
25.	“Colon targeting of 5-fluorouracil loaded dual cross linked multiparticulate system: in vitro and in vivo characterizations”; Jan-Mar 2021, 15(1), 01-11.	Asian Journal of Pharmaceutics	ISSN : 1998-409X	Peer reviewed, referred & indexed (Impact Factor: 0.460)
26.	“Polysaccharides based novel and controlled released multiparticulate systems for colon specific delivery: contemporary scenario and future prospects”; Asian Journal of Pharmaceutics, Oct-Dec 2020, 14(4), 488-98.	Asian Journal of Pharmaceutics	ISSN : 1998-409X	Peer reviewed, referred & indexed (Impact Factor: 0.460)
27.	Development and characterization of dual cross linked microbeads for colon specific targeting: Release kinetic modeling and gamma scintigraphy studies (Accepted for Oct-Dec, 2022 issue)	Asian Journal of Pharmaceutics	ISSN : 1998-409X	Peer reviewed, referred & indexed (Impact Factor: 0.460)

### **Paper presented in Conferences/ Seminars: 37**

### **Books published with international publisher (peer reviewed)**

<b>S. No.</b>	<b>Title</b>	<b>Book Name</b>
1	Colon Drug Targeting: Overview on Physico-Chemical Aspects Reena Kaushik, Vipul Kumar, Kantrol Kumar Sahu, Sweety Lanjhiyana and S. K. Lanjhiyana DOI: 10.9734/bpi/mono/978-93-5547-929-7 Print ISBN: 978-93-5547-929-7, eBook ISBN: 978-93-5547-930-3	Colon Drug Targeting: Overview on Physico-Chemical Aspects; First Edition 2022

2	Colon Drug Targeting: Overview on Dosage Form Designing and Evaluation Aspects Kantrol Kumar Sahu, Reena Kaushik, Vipul Kumar, Sweety Lanjhiyana and S. K. Lanjhiyana DOI: 10.9734/bpi/mono/978-93-5547-931-0 Print ISBN: 978-93-5547-931-0, eBook ISBN: 978-93-5547-932-7	Colon Drug Targeting: Overview on Dosage Form Designing and Evaluation Aspects; First Edition 2022
3	Colon Drug Targeting: Overview on Formulation Excipient Aspects Vipul Kumar, Reena Kaushik, Kantrol Kumar Sahu, Sweety Lanjhiyana and S. K. Lanjhiyana DOI: 10.9734/bpi/mono/978-93-5547-983-9 Print ISBN: 978-93-5547-983-9, eBook ISBN: 978-93-5547-992-1	Colon Drug Targeting: Overview on Formulation Excipient Aspects; First Edition 2022
4	Current Overview on Colon Specific Drug Delivery Meenakshi Jaiswal and S. K. Lanjhiyana DOI: 10.9734/bpi/mono/978-93-5547-993-8 Print ISBN: 978-93-5547-993-8, eBook ISBN: 978-93-5547-994-5	Current Overview on Colon Specific Drug Delivery; First Edition 2022
5	Technology Innovations in Colon Targeted Drug Delivery Systems Meenakshi Jaiswal and S. K. Lanjhiyana DOI: 10.9734/bpi/mono/978-93-5547-995-2 Print ISBN: 978-93-5547-995-2, eBook ISBN: 978-93-5547-996-9	Technology Innovations in Colon Targeted Drug Delivery Systems; First Edition 2022

### Book chapters published with international publisher (peer reviewed)

S. No.	Title	Book Name
1	Chapter 4 Colon Directed Drug Transport by Way of AZO Prodrugs Sanmati K. Jain*, Sanjay K. Lanjhiyana, Bharti Ahirwar, Ajay Gupta, B. G. V. S. Jagan and Ioannis S. Vourdoubas DOI: 10.9734/bpi/capr/v1/15696D Print ISBN: 978-93-5547-352-3, eBook ISBN: 978-93-5547-356-1	Challenges and Advances in Pharmaceutical Research Vol. 1
2	Chapter 3 Imidazo [2, 1-b][1,3,4] Thiadiazoles as Murine Leukemia Cell Inhibitors: Quantitative Structure Activity Relationship (Qsar) Study Sanmati K. Jain*, Vikash Kumar, Piyush Ghode, Ajay K. Gupta, Sanjay K. Lanjhiyana and B. G. V. S. Jagan DOI: 10.9734/bpi/nicb/v7/1764B Print ISBN: 978-93-5547-477-3, eBook ISBN: 978-93-5547-478-0	New Innovations in Chemistry and Biochemistry Vol. 7
3	Chapter 5 Assessment of Polysaccharides for Development of	New Innovations in Chemistry and

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- Pharmaceutical Drug Delivery Systems  
S. K. Lanjhiyana, Sanmati K. Jain and SweetyLanjhiyana  
DOI: 10.9734/bpi/nicb/v7/1733B  
Print ISBN: 978-93-5547-477-3, eBook ISBN: 978-93-5547-478-0
- 4 Chapter 1  
Role of Polysaccharides in Advancement of Pharmaceutical Sustained and Controlled Release Dosage Forms  
S. K. Lanjhiyana, Sanmati K. Jain, SweetyLanjhiyana, BhartiAhirwar and A. C. Rana  
DOI: 10.9734/bpi/caprd/v9/15530D  
Print ISBN: 978-93-5547-141-3, eBook ISBN: 978-93-5547-149-9
- 5 Chapter 5  
QSAR Investigation on 3,5-diaryl-4,5-dihydro-1H-pyrazole-1-carbothioamides as EGFR Kinase Inhibitors  
Sanmati K. Jain, Sanjay K. Lanjhiyana, Ajay Gupta, B. G. V. S. Jagan and Sunil Sahu  
DOI: 10.9734/bpi/capr/v2/15743D  
(Print ISBN: 978-93-5547-542-8, eBook ISBN: 978-93-5547-550-3).
- 6 Chapter 9  
An Overview on Pharmacological Effects of Few Phytopolyphenols from Dietary and Herbal Origins  
Bharti Ahirwar, Dheeraj K. Ahirwar, S. K. Lanjhiyana and Sanmati K. Jain  
DOI: 10.9734/bpi/capr/v3/16163D  
(Print ISBN: 978-93-5547-560-2, eBook ISBN: 978-93-5547-568-8)
- 7 Chapter 7  
A Review on Colon Specific Drug Delivery Systems: Novel Approach in Pharmaceutical Perspective  
Reena Kaushik, S. K. Lanjhiyana\*, Sanmati K. Jain, SweetyLanjhiyana, A. C. Rana and Vipul Kumar  
DOI: 10.9734/bpi/capr/v4/16539D  
(Print ISBN: 978-93-5547-693-7, eBook ISBN: 978-93-5547-694-4)
- 8 Chapter 8  
Recent Advancements of In-vitro and In-vivo Evaluation Strategies for Colonic Delivery Systems: An Overview  
Reena Kaushik, S. K. Lanjhiyana\*, Sanmati K. Jain, SweetyLanjhiyana and A. C. Rana  
DOI: 10.9734/bpi/capr/v4/16545D  
(Print ISBN: 978-93-5547-693-7, eBook ISBN: 978-93-5547-694-4)
- 9 Chapter 9  
A Review on Designing and Formulation Approaches for Development of Novel Colon Specific Drug Delivery Systems  
Reena Kaushik, S. K. Lanjhiyana\*, Sanmati K. Jain, SweetyLanjhiyana and A. C. Rana
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	DOI: 10.9734/bpi/capr/v4/3199B (Print ISBN: 978-93-5547-693-7, eBook ISBN: 978-93-5547-694-4)	
10	Chapter 12 Modern Pharmaceutical Technologies for Drug Targeting: A Review on Colon Specific Drug Delivery Systems Reena Kaushik, S. K. Lanjhiyana *, Sanmati K. Jain, SweetyLanjhiyanaand A. C. Rana DOI: 10.9734/bpi/capr/v4/16667D (Print ISBN: 978-93-5547-693-7, eBook ISBN: 978-93-5547-694-4)	Challenges and Advances in Pharmaceutical Research Vol. 4
11	Chapter 7 Quantitative Structure Activity Relationship (QSAR) Analysis on Substituted Pyrimidine Derivatives as Corticotropin-Releasing Factor1 Receptor Antagonists Sanmati Kumar Jain, Ajay Kumar Gupta and Sanjay Kumar Lanjhiyana DOI: 10.9734/bpi/capr/v9/4166E (Print ISBN: 978-93-5547-963-1, eBook ISBN: 978-93-5547-964-8)	Challenges and Advances in Pharmaceutical Research Vol. 9
12	Chapter 8 Drug Used in Prostate Cancer Therapy: An Overview Ajay Kumar Gupta, Sanjay Kumar Lanjhiyana and Sanmati Kumar Jain* DOI: 10.9734/bpi/cimms/v7/17206D (Print ISBN: 978-93-5547-959-4, eBook ISBN: 978-93-5547-960-0)	Current Innovations in Medicine and Medical Science Vol. 7
13	Chapter 10 In vivo Models of Chemically Induced Colitis for Inflammatory Bowel Diseases: An Overview Meenakshi Jaiswal, Nidhi Agrawal, Yogendra Kumar and S. K. Lanjhiyana DOI: 10.9734/bpi/capr/v10/4802A (Print ISBN: 978-81-959585-6-6, eBook ISBN: 978-81-959585-0-4)	Challenges and Advances in Pharmaceutical Research Vol. 10
14	Chapter ---- QSAR Analysis and ADMET Study on 3,5-Disubstituted Oxadiazole Derivatives as Anticancer Agents Sanmati Kumar Jain *, Ajay Kumar Gupta and Sanjay Kumar Lanjhiyana DOI:	Accepted Challenges and Advances in Pharmaceutical Research manuscript number 2022/BP/4296E
15	Chapter ---- An Overview on Non Steroidal Anti Inflammatory Drugs and Prodrug Concept Meenakshi Jaiswal, Nidhi Agrawal, Yogendra Kumar and S.K. Lanjhiyana DOI:	Accepted Current Overview on Pharmaceutical Research manuscript number 2022/BP/4820A
16	Chapter ---- A review study on screening of non-steroidal anti-inflammatory drug using experimental animal models for inflammatory diseases	Accepted Current Overview on Pharmaceutical Research manuscript number

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<b>Patent Application Publications</b>	<b>10 (Indian patent)</b>
<b>Patent Application Filed</b>	<b>01 (Indian patent; Submitted for publication)</b>

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### **Research Supervision**

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<b>PhD Guided</b>	<b>01</b>
<b>PhD Guidance</b>	<b>01 (Ongoing)</b>
<b>M. Pharm. Guided</b>	<b>17</b>
<b>M. Pharm. Guidance</b>	<b>02 (Ongoing)</b>

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### **Administrative Responsibilities**

Institutional Level: Members of Departmental Research Committee (DRC), Admission Scrutiny Committee, Admission Counselling Committee, Library Committee, Sessional Exam Committee, Board of Study Member, Main Exam Committee, Pilot Plant Committee, Departmental IQAC Committee, Departmental NIRF Committee.

University Level: Members of House Allotment Committee, Scrutiny Committee of Teaching Cadre, Adhoc Appointment Committee, Non Teaching Promotion Rule Committee, Medical Rules Committee.

### **Professional Membership**

Member of Association of Pharmaceutical Teachers of India (APTI)

Member of Indian Pharmaceutical Association (IPA)

Member of Indian Society for Technical Educations (ISTE)

**(Dr S.K. Lanjhiyana)**