

Dr. Vipin Kumar



Assistant Professor

Department of Pharmaceutical Sciences

Gurukul Kangri Vishwavidyalaya

Haridwar-249404(U.K.) INDIA

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Mobile No: +918057471509, 9759331509

Personal details:

Date of Birth: - 5th Feb 1981

Languages Known: - English, Hindi, Sanskrit

Area of Research Interests:

- ✓ **Novel Drug Delivery Systems**
- ✓ **Bioavailability enhancement**
- ✓ **Drug Pharmacokinetics**
- ✓ **Drug Targeting**
- ✓ **Screening of new chemical entities as pharmaceuticals**
- ✓ **Biopolymers and biomedical polymers composites**

Foreign Visit: Stony Brook University, New York, USA

Presently working as-

- ❖ Assistant Professor (Pharmaceutics) in the Department of Pharmaceutical Sciences, Faculty of Medical Science & Health, Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Member, Placement Cell, Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Member, Board of Studies, Department of Pharmaceutical Sciences, Faculty of Medical Science & Health, Gurukul Kangri Vishwavidyalaya, Haridwar

- ❖ Member, Institutional Animal Ethics Committee, Department of Pharmaceutical Sciences, Faculty of Medical Science & Health, Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Reviewer of esteemed journals namely Polymer Bulletin, Starch, Drug Delivery, Industrial Crops and Products, Natural Products Research, Current Drug Delivery published by top ranker publishers e.g. Science Direct, Springer, Informa Health Care, ACS, Wiley Interscience, Benthamscience.
- ❖ Member, Corporate Affairs and Outreach Cell, Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Member, IQAC Cell, Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Treasurer, Gurukul Kangri University Teachers Association (GUTA), Gurukul Kangri Vishwavidyalaya, Haridwar
- ❖ Member, External Affairs Interface Cell, Gurukul Kangri Vishwavidyalaya, Haridwar

Orientation/refresher/training course attended

- Orientation course in Academic Staff College, Guahati University, Guwahati, Assam from 16th December 2013 to 12th January, 2014 Sponsored by: UGC, New Delhi
- Refresher course in UGC Human Resource Development Centre (HRDC), Panjab University, Chandigarh, Punjab from 12th May 2015 to 1st June 2015 Sponsored by: UGC, New Delhi

Academic Profile:

<i>Exam Passed</i>	<i>Board/University</i>	<i>Subject(s)</i>	<i>Marks % (Division)</i>
10 th	U.P. Board	Science stream	72.66 (Ist)
12 th	U.P. Board	Science stream	73.40 (Ist)
B. Pharm.	Dept of Pharm Sci, H.N.B. Garhwal University Srinagar (Uttarakhand)	Pharmacy	72.00 (Ist)
M. Pharm.	Dept of Pharm Sci, Dibrugarh Uni. Dibrugarh (Assam)	Pharmaceutics	71.36 (Ist)
Ph.D.	Dept of Pharm Sci, Dibrugarh Uni. Dibrugarh (Assam)	Pharmaceutics	-----

Academic Achievements:

1. Qualified national level “**Graduate Aptitude Test in Engineering (GATE)**” **2004** conducted by **IIT, Delhi (92.65 %tile)**
2. Qualified national level “**Graduate Aptitude Test in Engineering**” (GATE) -**2003** conducted by **IIT, Madras (75.91 %tile)**
3. Qualified national level NIPER Entrance Examination-**June, 2004**

Research Supervisor:

Dr. B.Mazumder, M.Pharm., Ph.D., FIC

Department of Pharmaceutical Sciences

Dibrugarh University,

Dibrugarh-786004 (Assam)

Research Background with academic experience:

- Worked as Head, Department of Pharmaceutical Sciences, Gurukul Kangri University, Haridwar.
- One month hospital training experience at H.N.B. Govt. Base Hospital Srinagar (Garhwal) Uttaranchal in February, 2004
- Worked on research project entitled “Design and formulation of mucoadhesive microspheres composed of *Plantago ovata*-Sodium alginate containing a model hypoglycemic drug”
- Worked on gamma scintigraphic mucoadhesivity assessment of microcomposites of biopolymers in the Department of Nuclear Medicine, Institute of Nuclear Medicine and Allied Sciences, New Delhi
- Working on sustained release drug delivery devices of biopolymers in the form of mucoadhesive micro-sized delivery systems
- Worked as member of Expert committee of course approval and of affiliation committee constituted by Uttarakhand Technical University, Dehradun for inspection of professional institutions of the university for academic session 2014-15
- Deputed as observer by Uttarakhand Technical University, Dehradun for odd semester examination (B.Tech & MBA) 2014-15 at Phonics Group of Institutions, Roorke

- Worked as organizing secretary in “World Pharmacists Day” organized by: Department of Pharmaceutical Sciences, Faculty of Medical Sciences & Health, Gurukul Kangri University, Haridwar Held on: 25th September, 2014
- Worked as Co-ordinator in “Training Programme on Advanced Experimentations” organized by: Department of Pharmaceutical Sciences, Faculty of Medical Sciences & Health, Gurukul Kangri University, Haridwar Held on: June 20-30th September, 2014
- Worked as organizing secretary in “World Pharmacists Day” organized by: Department of Pharmaceutical Sciences, Faculty of Medical Sciences & Health, Gurukul Kangri University, Haridwar Held on: 25th September, 2015
- Worked as Co-organizer in “Kavya Goshthi” on the occasion of National Unity Day, 31st October, 2014 organized by: Faculty of Medical Sciences & Health, Gurukul Kangri University, Haridwar
- Acted as resource person and delivered lecture on “**Vector born communicable diseases and their control**” on March 19, 2015 at Short-term training programme (March 16-20, 2014) for faculty members of Pharmacy Department of Polytechnics of Uttarakhand state *organized by:* Govt. Polytechnic, Dehradun *sponsored by:* National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh
- Delivered guest lecture in M.D. course being conducted in Rishikul Campus Haridwar, Uttarakhand Ayurved University, Dehradun
- Delivered guest lecture on “**Citing references in research work**” in Ph.D. course work conducted in Department of Human Consciousness and Yogic Science, Gurukul Kangri Vishwavidyalaya, Haridwar
- Worked on reactive oxygen species (ROs) of zinc metal in the form of nanoparticles
- **Co-supervised M.D. (Doctor of Medicine in Ayurved) students for their project work**
List of thesis work guided-
 - Physicochemical analysis of ashtamangal ghrita w.s.r. to its SOP and stability- Dr. Deepika Verma (2015)
 - Physicochemical study of Pushyanug churna and Pushyanug vati w.s.r to its anti-fungal effect- Dr. Narender Kaur (2015)
 - Pharmaceutical and analytical study of Narikela lavana- Dr. Shailendra Yadav (2015)

- Physicochemical analysis of Lakshadi guggul w.s.r to its standardization-Dr. Vinod Upadhyay (2015)
- Pharmaceutico-analytical study of Devdarvadi-aristha w.s.r to its stability profile - Dr. Chinky Goel (2015)
- Lohanam maranam srestham sarvesam rasabhasmana.....w.s.r to Yashada Bhasama-Dr. Yadavendra Yadav (2013)
- Fabrication and physico-chemical investigation along with pharmacological assessment of classical and modified Kaphaketurasa- Dr. Pradeep Rawat (2012)

➤ **Co-supervised 03 M.Pharm. students for their project work**

List of dissertation work guided-

- Formulation and evaluation of Telmisartan microspheres-Mr. Manvendra Pratap Singh Chauhan (2015)
- Formulation and evaluation of Metformin hydrochloride sustained release tablets- Mr. Mohd. Mursleen (2015)
- Formulation and evaluation of sustained release tablets of doxofylline using eleusine coracana starch-Mr. Sudipta Kumar Dey (2015)

Academic Experience:

<i>S. No.</i>	<i>Designation</i>	<i>Period</i>	<i>Pay-scale</i>
1.	Lecturer, Dept of Pharmacy (Vivek College of Tech. Edu. Bijnor)	Nov.2006-June 2007	Rs.8,000-13,500/-
2.	Lecturer, Dept of Pharm Sci (Gurukul Kangri Uni. Haridwar)	June 2007- Feb., 2009	Rs.8,000-13,500/-
3.	Assistant Professor, Dept of Pharm Sci, (Gurukul Kangri Uni. Haridwar)	Feb., 2009-Till now	Rs.15,600-39,000/-

Govt. Financial Assistance Achieved:

- Received recommendation from Science and Engineering Research Board (SERB), Department of Science and Technology, Govt. of India, New Delhi for financial assistance under “**International Travel Scheme (ITS)**” for Young Scientist to participate in

International conference on “**Advances in Functional Materials**” held in “**Stony Brook University, New York State, USA**” from “**29th June to 3rd July 2015**”.

- Received recommendation from Science and Engineering Research Board (SERB), Department of Science and Technology, Govt. of India, New Delhi for financial assistance under International Travel Scheme for Young Scientist to participate in international conference on Annual Conference of “**International Society of Biomedical Polymers & Polymeric Biomaterials (ISBPPB)**” held in “**Washington, D.C. USA**” from “**9th July to 12th July 2014 (not availed)**”.
- Received recommendation from Uttarakhand Council of Science & technology (UCOST) , Dehradun for financial assistance under International Travel Scheme for Young Scientist to participate in international conference on “**Advances in Functional Materials**” held in “**Stony Brook University, New York State, USA**” from “**29th June to 3rd July 2015**” (not availed).

Awards/Fellowships/Memberships/ received

<i>S. No.</i>	<i>Name of Award/ Fellowship</i>	<i>Year</i>	<i>Other detail</i>
1.	Dharamvir Agarwal memorial award for brilliant students	1996	For securing highest marks in 10th std from Hindu Inter College Kiratpur, Dist Bijnor (U.P. Board)
2.	Dharamvir Agarwal memorial award for brilliant students	1998	For securing highest marks in 12th std from Hindu Inter College Kiratpur, Dist Bijnor (U.P.Board)
3.	AICTE-GATE Scholarship	2004-2006	During M.Pharm.

- Life member, Indian Science Congress Association (ISCA), Kolkata
- Life member, Haridwar Chapter, Indian Science Congress Association (ISCA), Kolkata
- Registered Pharmacist, Utter Pradesh State Pharmacy Council, Lucknow, UP

List of publication: [Total citations=94, (www.google scholar.com)]

List of papers/books published/accepted

2016

1. **Vipin Kumar Sharma**, Deepika Verma, Usha Sharma, Rajnikant Rohila, Pandey NN. Applicability of Physicochemical Parameters in Stability and Self-Life Estimation of Ayurvedic Semi-Solid Dosage Form ‘*Ashtamangal Ghrita*’ at Accelerated Storage Conditions. **Research Journal of Pharmaceutical, Biological and Chemical Sciences**. **7(1): XXX-XXX (Under press). Impact Factor. 0.35 ISSN. 975-8585.**

2015

2. **Vipin Kumar Sharma**, Bhasker Mazumder, Aseem Bhatnagar, Thakuri Singh. Mucoadhesive microspheres of glutaraldehyde crosslinked Isabgol husk mucilage for sustained release of gliclazide. **Biomacromolecules. (Communicated). ISSN: 1525-7797.**
3. **Vipin Kumar Sharma** and Bhaskar Mazumder. Preparation and *in vitro* characterization of microspheres containing gummy exudate of *Cochlospermum religiosum*. **Journal of Microencapsulation. (Under Review). ISSN: 0265-2048**
4. **Vipin Kumar Sharma**, Prince Prashant Sharma, Bhasker Mazumder, Aseem Bhatnagar. Mucoadhesivity Characterization of Isabgol Husk Mucilage Microspheres Crosslinked by Glutaraldehyde. **Current Drug Delivery. 12(6)693-702. Impact Factor: 1.483. ISSN: 1875-5704.**

2014

5. **Vipin Kumar Sharma** and Bhaskar Mazumder. Crosslinking of Isabgol husk polysaccharides for microspheres development and its impact on particle size, swelling kinetics and thermal behavior. **Polymer Bulletin.71:735-757. Impact Factor: 1.49. ISSN: 0170-0839.**
6. **Vipin Kumar Sharma** and Bhaskar Mazumder. Gastrointestinal transition and anti-diabetic effect of Isabgol husk microparticles containing gliclazide. **International Journal of Biological Macromolecules. 66 (2014) 15–25. Impact Factor: 3.10. ISSN: 0141-8130.**

7. **Vipin K. Sharma** and B. Mazumder. Characterization of gliclazide release from Isabgol husk hydrogel beads by validated HPLC method. **Acta Polonae Pharmaceutica**.71(1):153-166. **Impact Factor: 0.69. ISSN: 0001-6837.**
8. **Vipin Kumar Sharma**, Bhaskar Mazumder and Vinod Nautiyal. Rheological Characterization of Isabgol Husk, Gum Katira Hydrocolloids, and Their Blends. **International Journal of Food Science**. Volume 2014, Article ID 506591, 10 pages. <http://dx.doi.org/10.1155/2014/506591>.
9. **Vipin Kumar Sharma** and Bhaskar Mazumder. Analytical methods for the determination of gliclazide in pharmaceutical formulations and biological fluids. **World Journal of Pharmaceutical Research**. 3(9):979-997. **Impact Factor: 5.990. ISSN: 2277-7105.**

2013

10. **Vipin K. Sharma** and B. Mazumder. Feasibility and characterization of gummy exudate of Cochlospermum religiosum as pharmaceutical excipient. **Industrial Crops and Products**. 50:776-786. **Impact Factor: 2.84. ISSN: 0926-6690.**
11. **Vipin Kumar Sharma**, Khomendra Kumar Sarwa and Bhaskar Mazumder. Fluidity Enhancement: A critical factor for performance of Liposomal Transdermal drug delivery system. **Journal of Liposome Research**.1-7 **Impact Factor: 1.53. ISSN: 0898-2104.**
12. **Sharma V.K.**, Mazumder, B. and Sharma, P.P. Antimicrobial and powder characterization of herbal dentifrices. **Indian Drugs**. 50(11):39-47. **ISSN: 0019-462X.**
13. Sharma Prince P, Roy Ram K, Anurag, Gupta Dinesh and **Vipin K. Sharma**. Hyptis suaveolens (L.) poit: A phyto-pharmacological review. **International Journal of Chemical and Pharmaceutical Sciences**. 4(1):1-11. **ISSN: 0976-9390.**

2012

14. **Vipin K. Sharma and B.Mazumder**, "Versatility of safed musali (Indian viagra) in human ailments ", *Inventi Impact: Nutraceuticals*, Vol. 2012, Article ID-"*Inventi: pnc /113 /11*",2012 [cited 2013 Aug 27] Available From [http:// inventi. in/Article / pnc /113 / 11.aspx](http://inventi.in/Article / pnc /113 / 11.aspx).

2011

15. Peeush Singhal, Ritu Singhal, **Vipin Kumar**, Kapil K. Goel, Ashwani K. Jangra, Rajendra Yadav. Transdermal drug delivery system: A novel technique to enhance

therapeutic efficacy and safety of drugs. **American Journal of PharmTech Research**. **2(1): 105-125. ISSN: 2249-3387.**

2010

- 16. Vipin K. Sharma**, Vinod Nautiyal, Kapil K. Goel and Astha Sharma. Assessment of thermal stability of metformin hydrochloride. **Asian Journal of Chemistry**. 22(5):3561-3566. **Impact Factor: 0.45. ISSN: 0970-7077.**
- 17. Vipin K. Sharma** and A. Bhattacharya.(2010). Effect of cross-linkers on Isabgol husk-sodium alginate matrix type drug delivery devices. **Asian Journal of Chemistry**. 22(10):7661-7674. **Impact Factor: 0.45. ISSN: 0970-7077.**
- 18. Vipin K. Sharma** and A. Bhattacharya. Determination of metformin hydrochloride in Pharmaceutical Formulations. **Asian Journal of Chemistry**. 22(10): 8273-8279. **Impact Factor: 0.45. ISSN: 0970-7077.**
- 19. Sharma S., Singh. A., Kumari, A. and Sharma, V.K.** Role of health care education in women. **Vivek Journal of Education and Research**. **2(3):19-20.**

2009

- 20. Vipin K. Sharma** and A. Bhattacharya Release kinetics of metformin hydrochloride microencapsulated in Isabgol husk and sagu starch hydrophilic matrix. **Indian Drugs**. **46(11):860-868. ISSN: 0019-462X.**
- 21. Vipin K. Sharma** and A. Bhattacharya. A study on herbal treatment of hypertension. **International Journal of Plant Sciences**. **5(1):274-279.**

2008

- 22. Vipin K. Sharma** and A. Bhattacharya. Assessment of Rice bran as possible bioadhesive polymer for modified drug delivery. **International Journal of Plant Sciences**. **3 (1): 126-131.**
- 23. Vipin K. Shama** and A. Bhattacharya. Potentialities of Artemisia annua for malaria therapy. **Pharmaceutical Reviews**. **6.**
- 24. Vipin K. Sharma** and A. Bhattacharya. Release of metformin hydrochloride from Isabgol-sodium Alginate beads adhered on cock intestinal mucosa. **Indian Journal of Pharmaceutical Education and Research**. **42(4):363-370. Impact Factor. 0.150. ISSN-0019-5464.**

25. **Vipin K. Sharma** and A. Bhattacharya. Isabgol Husk: A Herbal Remedy for Human Health. **Journal of Pharmacy Research**. 2(2): 296-301. ISSN: 2319-5622.
26. **Vipin K. Sharma** and A. Bhattacharya. Release characterization of glipizide from Isabgol husk hydrogel. **Journal of the Assam Science Society**. 48(2):01-07. ISSN 0587-1921.

2007

27. **Vipin K. Sharma** and A. Bhattacharaya.(2007). Psyllium husk as a hydrophilic matrix agent for the release of a model drug. **Asian Journal of Bio Science**. 2(2):156-161.
28. **VK Sharma**, A Bhattacharya, A Kumar and HK Sharma.(2007). Health benefits of tea Consumption. **Tropical Journal of Pharmaceutical Research**. 6(3):785-792. **Impact Factor: 0.820**. ISSN: 1596-5996.
29. R Ahmad, **VK Sharma**, AK Rai, RD and BG Shivananda.(2007). Production of lignans in callus culture of Podophyllum hexandrum. **Tropical Journal of Pharmaceutical Research**. 6(4):803-808. **Impact Factor: 0.820**. ISSN: 1596-5996.
30. **Vipin K. Sharma** and A. Bhattacharya.(2007). Development and release from mucoadhesive beads of natural Isabgol husk-Sodium alginate backbone containing Metformin Hydrochloride. **Journal of the Assam Science Society**. 47(2):25-31. ISSN 0587-1921.

Paper presented/accepted in conferences/seminars/workshops/symposia

2015

1. “Incorporation of gliclazide in Isabgol husk microspheres for pharmacokinetics study by validated RP-HPLC method in diabetic animals” **In National Conference on “Science & Technology for human Development” organized by: The Indian Science Congress Association: Haridwar Chapter and Department of Ancient Indian History, Culture & Archaeology, Gurukul Kangri Vishwavidyalaya, Haridwar -249404 (Uttarakhand) Held on: March 20-21, 2015**
2. “Food habits and control on blood glucose level in diabetes mellitus” **In national seminar on “Yogic management of life style disorders” organized by: Department of Human Consciousness & Yogic Science, Gurukul Kangri Vishwavidyalaya, Haridwar-249404 (Uttarakhand) Sponsored By: Uttarakhand Council of Science and Technology, Dehradun, Held on: March 30-31st, 2015**

3. "Feasibility of gummy exudates of *Cochlospermum religiosum* for microspheres development and applicability as polymeric carriers in drug delivery system" in **Internal Conference on "Advances in functional Materials (AFM-2015)" organized by Stony Brook University, New York State, New York, USA Held on: June 29 -03 July, 2015**
4. "Formulation and physic-chemical characterization of Devdarvadi-Aritha dosage form Preparation of ashtamangal ghrita by traditional ayurvedic method and characterization for physicochemical parameters" in **National Conference on Science & technology for indigenous Development in India organized by: The Indian science Congress Association: Haridwar Chapter and Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402 Held on: September 28-30, 2015**
5. "Influence of coconut endocarp on crude sodium chloride in incineration processs for development of nanonized form of salt in 'Narikela lavana'" in **National Conference on Science & technology for indigenous Development in India organized by: The Indian science Congress Association: Haridwar Chapter and Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402 held on: September 28-30, 2015**
6. "Optimization of fabrication process for effective entrapment and release pattern of glicalzide from gum katira microspheres" in **National Conference on Science & technology for indigenous Development in India organized by: The Indian science Congress Association: Haridwar Chapter and Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402 held on: September 28-30, 2015**

2014

7. "Development and characterization of mucoadhesive microspheres composing of Isabgol husk polysaccharides" In **national conference on "Recent Advances in Biosciences & Drug Discovery" March 3-4, 2014 Organized by: Department of Pharmaceutical Sciences, Faculty of Ayurved & Medical Sciences, Gurukul Kangri University, Haridwar-249404 (Uttarakhand).**
8. "Use and preventive measurements for steroidal drugs in sports: National and international Scenario" in **5th National Conference on Present Innovative Approaches & New Paradigm in Physical Education on the occasion of national sports day, 29th August,**

2014 organized by: Department of Physical Education & Sports, Gurukul Kangri Vishwavidyalaya, Haridwar-249404 (Uttarakhand)

9. "Practical approaches of HPLC technique and analysis of method validation characteristics" in **National Symposium on Instrumentation (NSI-39) October 15-17, 2014 organized by: Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402**
10. "Importance of rheokinetics modeling and determination of rheological parameters for the performance of final product" in **National Symposium on Instrumentation (NSI-39) October 15-17, 2014 organized by: Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402**
11. "Investigation of gastrointestinal retention of Isabgol husk mucilage microspheres in healthy human volunteers" in **National Symposium on Instrumentation (NSI-39) October 15-17, 2014 organized by: Faculty of Engg. & Technology, Gurukul Kangri University, Haridwar-249 402**

2013

12. "Applicability of gummy exudates of *Cochlospermum religiosum* of Uttarakhand region for the development of sustained release microspheres of a model hypoglycemic agent" In **national conference on "Emerging Trends in Engineering and Sciences (ETES-2013)" November 9-10, 2013 organized by: Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar.**
13. "Impacts of process variables on characteristics of nanosize Indian traditional medicine, *Yashada Bhasma*" In **national conference on "Emerging Trends in Engineering and Sciences (ETES-2013)" November 9-10, 2013 organized by: Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar.**
14. "Release kinetics and bioequivalent study of a model drug released from conventional tablets containing madua grain powder as binding agent" In **national conference on "Emerging Trends in Engineering and Sciences (ETES-2013)" November 9-10, 2013 organized by: Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar.**
15. "Release kinetics and bioequivalent study of a model drug released from conventional tablets containing Madua grain powder as binding agent" In **national conference on**

- “Emerging Trends in Engineering and Sciences (ETES-2013)” November 9-10, 2013 organized by: Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar.**
16. “Gamma scintigraphic study for gastrointestinal transition behavior of mucoadhesive Isabgol husk microspheres loaded with a model anti-diabetic drug” **In 8th Uttarakhand State Science and Technology Congress (USSTC) (December 26-28, 2013) In: Doon University, Dehradun.**
 17. “Preparation and characterization of ethyl cellulose microspheres containing gliclazide” **In 8th Uttarakhand State Science and Technology Congress (USSTC) (December 26-28, 2013) In: Doon University, Dehradun.**
 18. “Determination of bioavailability of gliclazide from microspheres composing of Isabgol husk polysaccharides by validated RP-HPLC method and their hypoglycemic effect” **In 8th Uttarakhand State Science and Technology Congress (USSTC) (December 26-28, 2013) In: Doon University, Dehradun.**
 19. “Effect of process variables on particle size of Ayurvedic Traditional medicine ‘Bhasma’ **In 8th Uttarakhand State Science and Technology Congress (USSTC) (December 26-28, 2013) In: Doon University, Dehradun.**

2012

20. “Study of mucoadhesive drug delivery devices of *Isabgol* husk containing gliclazide and their anti-diabetic effect” **in International Conference on “Green Technology for Environmental Rehabilitation (GTER-2012)” February 11-13,2012 organized by Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar,**
21. “Characterization of release kinetics of gliclazide from modified release and conventional tablets” **in International Conference on “Green Technology for Environmental Rehabilitation (GTER-2012)” February 11-13,2012 organized by Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar,** “Comparative physicochemical characterization of some herbal and allopathic tooth powders” **In: International Conference on “Green Technology for Environmental Rehabilitation (GTER-2012)” February 11-13,2012 Organized by: Faculty of Engineering and Technology, Gurukul Kangri University, Haridwar,**

2011

22. "Investigation of blending compatibility of Isabgol husk and gum katira dispersions at different conditions" in **National Seminar on "Pharmacovigilance for Assuring drug safety" Assam, November 26-27, 2011 organized by " Department of Pharmaceutical Sciences, Dibrugarh University, Dibrugarh.**

2010

23. "Role of the common medicinal plants in the treatment of diarrhoea: A survey" *In. International conference on Green Technologies for Greener Environment, 27-30 January 2010, Held in: Department of Chemistry, Chaudhary Charan Singh University, Meerut.*
24. "Effect of crosslinkers on different parameters of Isabgol husk and sodium alginate matrix fabricated by ionic gelation method" *In. International conference on Green Technologies for Greener Environment, 27-30 January 2010, Held in: Department of Chemistry, Chaudhary Charan Singh University, Meerut.*
25. "Study of dual behavior of Isabgol husk as natural herbal remedy and biopolymer in drug delivery systems" *In. National Conference on Recent Aspects of Biological and Medicinal Chemistry, 20-21th February 2010, Held In: Department of Chemistry, Lajpat Rai Post-Graduate college Sahibabad, Ghaziabad (U.P.)*
26. "Importance of some medicinal plants of Dasgi Region of Uttarkanshi District of Uttarakhand in Diabetes Mellitus" *In. National Conference on Recent Aspects of Biological and Medicinal Chemistry, 20-21th February 2010, Held In: Department of Chemistry, Lajpat Rai Post-Graduate College Sahibabad, Ghaziabad (U.P.).*
27. "Micromeritics study of microparticulate drug delivery devices composing of *Isabgol* husk fabricated by different methods" **5th Uttarakhand State Science and Technology Congress (USSTC) (November 10-12, 2010)** *In: Doon University, Dehradun.*
28. "Effects of various extracts of *Albizia lebbek* (L.) Benth. on cotton pellets induced granuloma" **5th Uttarakhand State Science and Technology Congress (USSTC) (November 10-12, 2010)** *In: Doon University, Dehradun,*
29. "Anti-inflammatory activity of *Butea monosperma* (Lam.) taub. bark extract" **5th Uttarakhand State Science and Technology Congress (USSTC)** *In: Doon University, Dehradun (November 10-12, 2010).*

2009

30. "Development and release characterization of model anti-diabetic agent from hydrogel system of gummy exudates of *moringa sps.*, *acacia sps.* and *Isabgol* husk" *in. International Herbal Conference, held in: Indian Institute of Science, Bangalore (February 26th-28th, 2009)*
31. "*In vitro* characterization of *Isabgol* husk-sodium alginate hydrogel beads" 4th Uttarakhand State Science and Technology Congress (USSTC) (*In. G.B. Pant University of Science and Technology Pantnagar, Uttarakhand (November 10-11, 2009).*
32. "Comparative release characterization of gliclazide from matrix system composed of cock intestinal mucosa, albumin and *Isabgol* husk" in **National conference on "Recent Trends in Pharmaceutical Sciences" organized by: Anand College of Pharmacy, Agra (November 14-15, 2009).**
33. "Synergistic effect of *Isabgol* husk alone and as pharmaceutical excipient in diabetes management" **World-Veda-ConferenceHeld In. Department of Sanskrit, Gurukul Kangri Vishwavidyalaya, Haridwar (20-22 November, 2009).**

2008

34. "Holistic approach for diabetic management by natural remedies" in 2nd **International Conference on Management Sciences and Arts organized by: Faculty of management studies, Gurukul Kangri University, Hardwar (Uttarakhand India) (15th -17th September, 2008).**
35. "Release kinetics of metformin hydrochloride fabricated in microparticulate system composed of *Isabgol* husk and Sagu starch hydrophilic matrix" in 3rd **Uttarakhand State Science and Technology Congress (USSTC) (November 10-11, 2008).**
36. "Comparative characterization of crosslinking agents on metformin hydrochloride release from *Isabgol* husk-sodium alginate formulation" in 27th **annual Conference of Indian Council of Chemists (26th -28th December 2008) held in: Department of Chemistry, Faculty of Science and Faculty of Ayurved and Medical Sciences, Gurukul Kangri University, Haridwar (Uttarakhand India).**

D. Conference/workshops/seminars attended:

1. Workshop on “Drug store and management and non-prescription drugs, Nov 14, 2005 organized by Assam State Branch of Indian Pharmaceutical Association on the occasion of 43rd National Pharmacy Week.
2. Workshop on “WTO: Outreach and advocacy”, March 24-25, 2006 organized by Department of Economics, Dibrugarh University, Dibrugarh. *Sponsored by:* Association for Environment and Development Research (AEDR), New Delhi.
3. National seminar on “Value addition to bioresource of N.E. INDIA, post harvest technology and cold chain” May 19-21, 2006 *Organized by:* Department of Botany, Guahati University, Guwahati. *Sponsored by:* Assam Science Technology & Environment Council (ASTECC), Department of Science and Technology (DST), New Delhi.
4. Workshop on “ Bioinformatics and its future prospects” June 9, 2006 *Organized by:* Department of Botany, Guahati University, Guwahati & DOECC Centre, Tezpur
5. National seminar on “Status of biodiversity in states of mountain” held on 15-16th march in Department of Zoology and Environment Science, Gurukul Kangri Vishwavidyalaya, Haridwar *Supported by:* UGC and Uttarakhand State Council for Science and Technology (UCOST), Dehradun.
6. Regional Seminar on “Patenting in biotechnology” held on 11th Feb. 2008 in Le Grand Hotel Haridwar, *Supported By:* Uttarakhand State Council for Science and Technology (UCOST), Dehradun; *Organized by:* National Research Development Corporation (A Govt. of India Enterprise), New Delhi.
7. “Industry Academia Coordination Workshop ICAW-2008” November 15, 2008 *Held In:* Department of Chemistry, G. B. Pant University of Agriculture and Technology, Pantnagar *organized by:* State Biotechnology Program, Government of Uttarakhand (Uttarakhand) and Kumaun & Garhwal Chambers of Commerce & Industries (KGCCI) Uttarakhand.
8. National seminar on “Status of Bio-Diversity among the mountainous states of India” in Department of Zoology & Environmental Sciences, Gurukul Kangri Vishwavidyalaya, Haridwar (Uttarakhand) and *organized by:* UGC-SAP.

9. Workshop on “Prospects of natural product research in north-east India” March 13, 2009
Held In: Department of Chemistry, Dibrugarh University, Dibrugarh, Assam *Organized by:* SAP-DRS-I.
10. Workshop on “Harnessing Intellectual property & its management for growth and prosperity” *organized by:* Uttarakhand state council for Science & Technology and Gurukul Kangri Vishwavidyalaya, Haridwar in association with National research Development Corporation, New Delhi. *Held on:* 17th May, 2014.
11. 4th Indian National Seminar of Asian Network of research on anti-diabetic plants (ANRAP) “Plants in diabetes: Prospects & Challenges” *organized by:* Dibrugarh University, Dibrugarh, Assam, *Held on:* 13th March, 2015.
12. International Conference on Harnessing the sub-Himalayna Plant Diversity for Human Welfare *organized by:* Dibrugarh University, Dibrugarh, Assam, *Held on:* 11-13th March, 2015.
13. Workshop on “Basic Life Support” *organized by:* Gurukul Campus, Haidwar, Uttarakhand Ayurved University, *Held on:* 6th November, 2015
14. Workshop on “Yoga and Purusartha for integral development” *Organized by:* IPR Cell, Gurukul Kangri University, Haridwar in association with Faculty of Management Studies (FMS) & Dept of Human Consciousness & Yogic Science, Gurukul Kangri University, Haridwar *Held on:* 20th July, 2015
15. National workshop on “ Packaging of fresh and processed foods” organized by Indian institute of Packaging and sponsored by Ministry of Food Processing Industries, Govt. of India, *held on:* 20th November, 2015
16. International Conference on ‘Spiritual and Yoga Education: A need of the Hour’ organized by Vivek College of Education, Bijnor on 19-20th December, 2015.

E. Professional Skills:

- Expert in handling of various animals like, rats, mice, rabbit etc.
- Familiar with handling and data interpretation of various instruments like FTIR, GC, UV-Visible spectrophotometer, DSC, TGA, multi-tooling tablet punching machine (12-station), Brookfield’s viscometer, Hydraulic bench, Dissolution apparatus, Disintegration apparatus, conductometer, Polarimeter, Phase contrast microscope, HPLC, Karl-Fischer titre, Tail flick analgesiometer, Actophotometer, rotarod etc.

- In *in-vivo* screening of chemical entities for diabetes, analgesic, anti-inflammatory activity etc.
- Familiar with data interpretation and software implementation for *in vitro-in vivo* correlation (*IVIVC*) of pharmaceutical formulations
- Expert in data interpretation of Bioavailability, bioequivalence and *PK/PD* study of pharmaceutical formulations according to certified guidelines with implementation of software.

F. Computer Proficiency:

Well versed with some educationally useful application software: Microsoft Office package (MS word, Excel, Power point), SigmaStat, SPSS 10, Corel Draw, Origin, GraphPad, SigmaStat, DesignExpert, Pro'X'pert, scientific information retrieval using search engines on Internet etc.

References:

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I hereby solemnly declare that all the information provided here are true as per the best of my knowledge.

(Dr. Vipin Kumar)