

## BIO-DATA

Name: Dr.Nirmala Chauhan  
Designation: Assistant Professor  
Date of Appointment: 09-06-2010  
Teaching Experience: 13 years  
Correspondence Address: Assistant Professor,  
Department of Chemistry,  
Govt. Degree College Kullu.  
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### Educational Qualifications:

Examination	Institution/University
Matric	CBSE Delhi
10+2	CBSE Delhi
B.Sc.	University of Pune
M.Sc	H.N.B Garhwal university Uttaranchal.
B.Ed	Jammu University.
M.Phil	H.P.U Shimla, 2006
Ph.D	H.P.U Shimla, 2013
SLET	2006
Departmental Exam	June 2018 2007 -2010
UGC DIST Fellowship	

At present working as an Assistant Professor in the Department of Chemistry, G.D.C. Kullu Himachal Pradesh, India.

### Colleges Served:

1. Government College Kullu (District Kullu)
2. Government Vallabh College Mandi (District Mandi)
3. Government College Kullu (District Kullu)
4. Government College Banjar (District Kullu)

### LIST OF RESEARCH PUBLICATIONS:

1. Baljit Singh, **Nirmala Chauhan**. Preliminary evaluation of molecular imprinting of 5-fluorouracil within hydrogels for use as drug delivery systems. *Acta Biomaterialia*, Volume 4, Issue 5, September 2008, Pages-1244-1254
2. Baljit Singh, **Nirmala Chauhan**. Dietary fiber psyllium based hydrogels for use in insulin delivery. *International Journal of Diabetes Mellitus*, Volume 2, Issue 1, April 2010, Pages-32-37

3. Baljit Singh, **Nirmala Chauhan**. Release dynamics of tyrosine from dietary fiber psyllium based hydrogels for use in Parkinson's disease .*Food Research International*, Volume-43, Issue4, May2010,Pages-1065-1072
4. Baljit Singh, **Nirmala Chauhan**. Modification of psyllium polysaccharides for use in oral insulin delivery. *Food Hydrocolloids*, Volume 23, Issue 3, May 2009, Pages 928-935
5. Baljit Singh, **Nirmala Chauhan**. Molecular Imprinted Polymers for use as Drug Delivery Devices: Preliminary Evaluation. *Journal of Macromolecular Science, Part A*, Volume 45, Issue 9 September 2008, pages 776 – 784.
6. Baljit Singh, Ritu Bala and **Nirmala Chauhan**. In vitro release dynamics of model drugs from psyllium and acrylic acid based hydrogels for the use in colon specific drug delivery. *Journal of Materials Science: Materials in Medicine*. Volume 19, Number 8, 2771-2780.
7. Baljit Singh, G.S. Chauhan, D.K. Sharma, **Nirmala Chauhan**. The release dynamics of salicylic acid and tetracycline hydrochloride from the psyllium and polyacrylamide based hydrogels (II) .*Carbohydrate Polymers*, Volume 67, Issue 4, 19 February 2007, Pages-559-565.
8. Baljit Singh, Nisha Sharma, **Nirmala Chauhan**. Synthesis, characterization and swelling studies of pH responsive psyllium and methacrylamide based hydrogels for the use in colon specific drug delivery. *Carbohydrate Polymers*, Volume 69, Issue 4, 2 July 2007, Pages-631-643
9. Baljit Singh, **Nirmala Chauhan**, S. Kumar. Radiation crosslinked psyllium and polyacrylic acid based hydrogels for use in colon specific drug delivery . *Carbohydrate Polymers*, Volume 73, Issue 3, 1 August 2008, Pages 446-455.
10. Baljit Singh, G.S. Chauhan, S. Kumar, **Nirmala Chauhan**. Synthesis, characterization and swelling responses of pH sensitive psyllium and polyacrylamide based hydrogels for the use in drug delivery (I).*Carbohydrate Polymers*, Volume 67, Issue 2, 22 January 2007,Pages, 190-200
11. Baljit Singh, **N. Chauhan**, and Vikrant Sharma. Design of Molecular Imprinted Hydrogels for Controlled Release of Cisplatin: Evaluation of Network Density of Hydrogels. *Industrial & Engineering Chemistry Research*, 2011, 50 (24), pp 13742–13751.
12. Baljit Singh, **Nirmala Chauhan**, S. Kumar, Ritu Bala. Psyllium and copolymers of 2-hydroxyethylmethacrylate and acrylamide-based novel devices for the use in colon specific antibiotic drug delivery . *International Journal of Pharmaceutics*, Volume 352, Issues-1-2,20,March-2008,Pages,74-80
13. Baljit Singh, G.S. Chauhan, D.K. Sharma, Anil Kant, I. Gupta, **Nirmala Chauhan**. The release dynamics of model drugs from the psyllium and *N*-hydroxymethylacrylamide based hydrogels. *International Journal of Pharmaceutics*, Volume 325, Issues 1-2, 15 November 2006, Pages 15-25
14. Baljit Singh, G.S. Chauhan, D.K. Sharma, Nisha Sharma, **Nirmala Chauhan**. In vitro release dynamics of model drug from psyllium polysaccharide and polyacrylamide based novel hydrogels. MACRO 2006.

## **B. RESEARCH PAPERS PRESENTED AT INTERNATIONAL SYMPOSIA/CONFERENCES**

1. Presented research paper titled “Modification of psyllium polysaccharides for use in oral insulin delivery” in International conference on “**Targeting Diabetes and Novel Therapeutics**” in **Diabetic Medication-2015**, held on September 14-16, 2015 in **Las Vegas, Nevada, USA**.
2. Presented research paper titled “Polysaccharides as safer release systems for agrochemicals” in “Multidisciplinary international conference on natural resource management for socio-economic development of western Himalayas: opportunities & challenges”, held at Vallabh government college Mandi (10-12 August **2019**) and got **best speaker award**.
3. Attended Annual meeting CNH2015 (7<sup>th</sup> to 9<sup>th</sup>) International Symposium on community nutrition and health: A social responsibility from-07<sup>h</sup> to 09<sup>h</sup> November 2015 held at VMCC, IIT Bombay.

## **B. RESEARCH PAPERS PRESENTED AT NATIONAL SYMPOSIA/CONFERENCES**

1. Synthesis and Characterization of Polystyrene, Starch and Acrylic Acid Based Polymeric Networks. Baljit Singh, Nisha Sharma, S. Chauhan, Isha Gupta, **Nirmala Chauhan** and G.S. Chauhan. Presented at UGC-SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry (RTSPC-I) held at H.P. University Shimla-5 on December 5-6, 2005.
2. The in vitro release dynamics of insulin from the Psyllium and Polyacrylamide based Hydrogels for oral drug delivery. Baljit Singh, G. S. Chauhan and **Nirmala Chauhan**. Presented at XXI National Carbohydrate Conference held at University of Delhi on Nov. 26-29, 2006, PP-37.
3. Psyllium Based Double Potential pH Sensitive Controlled and Sustained Drug Delivery Systems for Diabetes Mellitus. Baljit Singh, Nisha Sharma, Ritu Bala, Lok Pal and **Nirmala Chauhan**. Presented at National Symposium on Recent advances in Analytic Sciences and Applications held at H.P University Shimla-5 on April 9-11, 2007.PP-53.
4. Optimized synthesis and characterization of polystyrene graft copolymers and preliminary assessment of their biodegradability and application in water pollution alleviation technologies. Baljit Singh, **Nirmala Chauhan**, Sanjay Kumar, Lok Pal and Nisha Sharma. Presented at National Symposium on Recent advances in Analytic Sciences and Applications held at H.P University Shimla-5 on April 9-11, 2007.PP-52.
5. Synthesis, characterization and swelling responses of pH responsive psyllium and methacrylamide based hydrogels for the use in colon specific drug delivery. Baljit Singh., Nisha Sharma, Lok Pal and **Nirmala Chauhan**. Presented at UGC-SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry(RTSPC-II) held at H.P University Shimla-5 on March 23-24, 2007.PP-49.

6. Glucose recognition by imprinting in hydrogel based on poly(acrylamide) and poly(hydroxyethylmethacrylate). Baljit Singh and **Nirmala Chauhan**. Presented at UGC-SAP National Seminar on Recent Trends in Synthetic and Polymer Chemistry(RTSPC-II) held at H.P University Shimla-5 on March 23-24, 2007.PP-51.

7. Synthesis, characterization and swelling studies of pH responsive psyllium and hydroxyethylmethacrylate based hydrogels for use in colon specific drug delivery. Baljit Singh, N Sharma, **Nirmala Chauhan** and R Bala. National Symposium on Recent advances in Analytic Sciences and Applications held at H.P University Shimla-5 on April 9-11, 2007.PP-49.

8. Synthesis and Characterization of poly(lactic acid) and poly(glycolic acid) based polymers and their copolymers with silicon rubber for the use in biomedical applications. Baljit Singh, Nisha Sharma, **Nirmala Chauhan** Ritu Bala and lok Pal. Presented at National Symposium on Recent advances in Analytic Sciences and Applications held at H.P University Shimla-5 on April 9-11, 2007.PP-52.

## ACADEMIC

1. Attended Online Refresher Course in “Chemistry” organized by Teaching learning Centre, Ramanujan College, and University of Delhi from 29<sup>th</sup> November to 13<sup>th</sup> December 2022 and got “A<sup>+</sup>” grade in the course.

2. Attended Online Refresher Course on “Research Methodology” organized by Teaching learning Centre, Ramanujan College, and University of Delhi from 20<sup>th</sup> July to 3<sup>rd</sup> August 2021 and got “A<sup>+</sup>” grade in the course.

3. Attended Refresher Course organized by UGC-Human Resource Development Centre (HRDC) Punjab University Chandigarh from 28-12-2018 to 17-01-2019 and got “A” grade in the course.

4. Attended Orientation programme 116<sup>th</sup> organized by UGC-Human Resource Development Centre (HRDC) Punjab University Chandigarh from 01-11-2017 to 28-11-2017 and got “A” grade in the course.

5. Attend One week online In-service Teacher Training Programme( Capacity Building) for assistant professor with 6-15 years Service w.e.f 15<sup>th</sup> March 2021 to 20<sup>th</sup> March 2021 organized by Government College of Teacher Education, Dharamshala(Himachal Pradesh).

6. Attended Induction programme organized by Govt. College of Teacher Education Dharamshala from 24-12- 2012 to 05-01-2013 and got “A” grade in the course.

7. Cleared Departmental Exam-41806330(M.S) June 2018.

NIRMALA CHAUHAN