

CURRICULAM VITAE (CV)



Dr. ROHIT

Father's name : Sh. Pawan Kumar

Mother's name : Smt. Kamlesh Kumari

Date of Birth : 12-May-1995

E-mail : rehalrohit1205@gmail.com

Address: VPO Katohar Khurd, Tehsil Amb, Distt. Una, Himachal Pradesh, Pin- 177203

EDUCATIONAL QUALIFICATION

Level	Board/University	Division
Ph.D. (Organic Chemistry)	H.P.U. Shimla	First
M.Phil (Organic Chemistry)	H.P.U. Shimla	First
M.Sc. Chemistry (Organic Specialization)	H.P.U. Shimla	First
Graduation (B.Sc. Medical)	H.P.U. Shimla	First
Sr. Sec. (+2 Medical)	H.P. Board Dharamshala	First
Matriculation	H.P. Board Dharamshala	First

OTHER QUALIFICATIONS

- Qualified CSIR-JRF in November, 2020
- Qualified CSIR-UGC-NET 2018,2019
- Qualified HP-SET in 2018, 2020
- Qualified GATE 2019, 2020, 2021.

Title of Ph.D Thesis: "DEVELOPMENT OF STERCULIA GUM BASED NETWORK HYDROGELS: SYNTHESIS, CHARACTERIZATION AND DRUG DELIVERY APPLICATIONS".

WORK EXPERIENCE

Working as Assistant Professor since July 7, 2023.

Instrumental Experience:

- UV Spectrophotometer
- IR Spectrometer
- Brookfield Viscometer
- Texture Analyzer
- Thermo-gravimetric Analyzer

Publications (9, International):

1. Baljit Singh, Ajay Kumar, **Rohit** (2020). Synthesis and characterization of alginate and sterculia gum-based hydrogel for brain drug delivery applications. *International Journal of Biological Macromolecules*, 148, 248-257.(IP = 8.025)
2. Baljit Singh, Ajay Kumar, **Rohit** (2021). Gamma radiation formation of sterculia gum-alginate-carbopol hydrogel dressing by grafting method for use in brain drug delivery. *Chemical Physics Letters*, 779, 138875. (IP = 2.719)
3. Baljit Singh, Vikrant Sharma, Ajay Kumar, **Rohit** (2021). Designing moringa gum-sterculia gum-polyacrylamide hydrogel wound dressings for drug delivery applications. *Carbohydrate Polymer Technologies and Applications*, 2, 100062.
4. Baljit Singh, **Rohit** (2022). Tailoring and evaluating poly (vinyl sulfonic acid)-sterculia gum network hydrogel for biomedical applications. *Materialia*, 25, 101524.
5. Baljit Singh, Vikrant Sharma, Kaka Ram, Sushil Kumar, Priyanka Sharma, **Rohit** (2022). Impregnating graphene oxide into polyvinylsulphonic acid-sterculia gum hydrogels to modulate antibiotic drug vancomycin interactions for controlled drug delivery applications. *Diamond and Related Materials*, 130, 109483. (IP = 3.806)
6. Baljit Singh, Vikrant Sharma, Ajay Kumar, Rajneesh, **Rohit**, Kaka Ram, Man Mohan, Prerna Sharma (2022). Development of dietary fibers moringa-sterculia gum hydrogel for drug delivery applications. *Food Hydrocolloids for Health*, 2, 100095.
7. Baljit Singh, Vikrant Sharma, **Rohit**, Kaka Ram, Man Mohan, Prerna Sharma (2023). Design of ciproflaxin impregnated dietary fibers psyllium-moringa gum-alginate network hydrogels via green approach for use in gastro-retentive drug delivery system. *Bioactive Carbohydrates and Dietary Fibre*, 29, 100345.

8. Baljit Singh, Vikrant Sharma, H. Sen and **Rohit**(2023)."Fabrication of acacia gum grafted copolymeric network hydrogel for biomedical applications." *Bioactive Carbohydrates and Dietary Fibre*, 29, 100353.
9. Baljit Singh, Vikrant Sharma, Jasvir Singh and **Rohit** (2024). Zwitterionic functionalization of polysaccharide gum by graft copolymerization to develop 3-D network materials for anticancer drug delivery applications. *Next Materials*, 4, 100115.

Conferences

1. Presented poster presentation entitled 'Development of sterculia gum based drug delivery systems: Evaluation of biomedical properties' at 13th in series & 1st International Conference on "Recent Advances in Chemistry-2023"(CRAC-2023), PP-67, on February 23-24, 2023, at Department of Chemistry, Punjabi University, Patiala, India.(Awarded 3rd prize)
2. Presented poster presentation entitled 'Synthesis and Characterization of Sterculia Gum Based Hydrogels for Anticancer Drug Delivery Application' at International Conference on Molecules and Materials Technology (MMT-2023), OPP-35, on April 21-22, 2023, Department of Chemistry, National Institute of Technology, Kurukshetra, Haryana, India.
3. Presented oral presentation entitled 'Synthesis and characterization of sterculia gum based hydrogel for brain drug delivery application' at National conference on emerging research trends in chemical, physical and life sciences for entrepreneurial skill development on 26th-27th December 2018, at Himachal Pradesh University, Shimla-05, India.
4. Attended six days In Service Induction Training Programme for Assistant Professors organized at State Council of Education Research & Training Himachal Pradesh, SCERT Rabon, Solan, from 21th August 2023 to 26th August 2023.
5. Participated for NEP 2020 orientation and sensitization programme under Malaiivya Mission Teaching Training Programme (MM-TTP) of university grant commission UGC organised by UGC –MMTTC, Maharishi Dayanand Saraswati University, Ajmer, Rajasthan from 17th February 2025 to 27th February 2025 through online mode.
6. Participated in a three-day workshop on "Use of E-Tools in Office Automation and Class Room Teaching" Organized by the IQAC of the Govt College Nerwa from February 19, 2024 to February 21, 2024.
7. Presented oral presentation entitled "Smart hydrogels in biomedicine: A comprehensive review of material and applications" at International conference on social and scientific awakening in the era of quantum world on 25th to 27th may 2025, at MCM DAV College, Kangra, Himachal Pradesh.