



MANAV RACHNA UNIVERSITY, FARIDABAD

Sector 43, Aravalli Hills, Manav Rachna Campus Rd, Faridabad, Haryana 121004

Dr. Shilpa Sharma

Designation: Assistant Professor

Qualifications: B.Sc from Delhi University, M.Sc from Jamia Hamdard University, PhD (Chemistry) from Delhi University

Email : shilpa@mru.edu.in

Experience: 08 Years

[Google Scholar Profile:](#)



Research Interest: Superabsorbent polymer, soft materials, hydrogels, polymerization, polyaspartic acid, swelling, *in vitro*, GHK Cu, silver nanoparticle, biocompatibility, drug delivery, *in vivo* studies, transdermal delivery, wound healing

+ Journal Publication Details:

Shilpa Sharma, Mohammad Faiyaz Anwar, Amit Dinda, Maneesh Singhal, Amita Malik. *In vivo* and *in vitro* studies of pH sensitive GHK-Cu incorporated polyaspartic acid and polyacrylic acid superabsorbent polymer. American Chemical society journal- Omega, 2019, 2(23):20118-20128.

Shilpa Sharma, Amita Dua, Amita Malik, Biocompatible superabsorbent polymer for controlled release of GHK-Cu peptide for wound dressing application. Journal of Polymer Research, 2017, 24:104.

Shilpa Sharma, Amita Dua, Amita Malik, Microwave assisted synthesis of pH sensitive superabsorbent polymers based Polyaspartic acid/acrylic acid. International journal of green chemistry and bioprocess, 2016, 6(1):7-12.

Shilpa Sharma, Amita Dua, Amita Malik, Polyaspartic acid based superabsorbent gels with different cross-linkers- A comparative study. IOSR-Journal of applied chemistry, 2016, 9(5): 56-66.

Shilpa Sharma, Amita Dua, Amita Malik, Superabsorbent polymer gels based on Polyaspartic acid and Polyacrylic acid. Journal of material science and engineering, 2016, 5(3): 235

Shilpa Sharma, Amita Dua and Amita Malik. "Third generation material for wound dressings". International Journal of Pharmaceutical Science and research. 2014, 5(6): 2113-2124.

Shilpa Sharma, Amita Dua and Amita Malik. "Polyaspartic acid based superabsorbent polymer". European Polymer Journal. 2014, 59: 363-373.

+ Book/Chapter Publications:

Reference Book" **Polyaspartic acid based Superabsorbent polymers** published by – Lambert Publication Year:2018 authors- Amita Malik, Amita Dua and Shilpa Sharma, ISSN No: 978-620-2-00752-8

Book Chapter "**Biobased nanocomposites in tissue Engineering and Regenerative Medicine**" by Elsevier Year: 2021 Authors- Shilpa Sharma, Priti Gupta and Amita Malik

+ Administrative Responsibilities:

"ERP Coordinator" in MRU from 01-06-2020 to Till date

+ Event Organized(Conference/Seminar/FDP/Workshops

Organized FDP on Green Chemistry From 7th Jan-11th Jan 2019, at Manav Rachna University.

+ Awards

PSGR College, Chennai: Secured distinction while participating in Computational Workshop – A leeway to Theoretical Chemistry, organised by PSGR Krishnammal College of Women, Chennai

Indian Military Academy (IMA), Dehradun: Won First Prize in National Conference on Advances in Science and Technology: A step towards Make in India in Defence Sector (NCAST- 2017) held in March, 2017

Oral Presentation Topic:

"Polyaspartic acid and 2-acrylamido-2-methylpropane sulfonic acid based stimuli responsive Polymer for wound healing."

HIM Science Congress Association, Mandi -Himachal Pradesh: Won First prize in Poster Presentation at 3rd Annual National Conference held in April, 2015

Poster Presentation Topic:

"Superabsorbent Polymer based on Polyaspartic Acid and 2-acrylamido-2-methylpropane Sulfonic acid."