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https://scholar.google.com/citations?user=XOnD24gAAAAJ&hl=en

Research Area: Skin Tissue Engineering, Wound Healing

Employment History

Feb 2024– Continuing	**DBT RA,** School of Biotechnology. University of Jammu
Aug 2023– Jan 2024	**Contract lecturer,** School of Biotechnology, University of Jammu
Mar 2022– July 2023	**IISc Bangalore,** ICMR research fellow.
Oct 2021 – Mar 2022	**Research Associate** Department of Materials Engineering, IISc Bangalore

Education

2013 – 2021 **Ph.D., Biological Sciences and Bioengineering** IIT Kanpur.
Thesis title: *Wound dressing materials towards management and regeneration of chronic wounds.*

2009 – 2011 **M.Sc. Biotechnology** Barkatullah University, Bhopal.
Subjects: *Cell Biology, Microbiology, Bio-instrumentation, Biotechnology* .

2006 – 2009 **B.Sc.** Nagpur University, Nagpur.
Subjects: *Microbiology, Biotechnology, Chemistry*.

Research Publications

Journal Articles

1. S. Kumari, P. Mondal**, S. Tyeb**, S. Chatterjee, "Visible light-based 3D bioprinted composite scaffolds of κ-carrageenan for bone tissue engineering applications," Journal of Materials Chemistry B., vol. 12, 2024.
2. R. Soni, S. Jhawar, **S. Tyeb**, S. K. Gupta, S. Suwas, and K. Chateerjee, "Wire arc additive manufacturing of zinc as a degradable metallic biomaterial," *Biomater. Adv.*, vol. 13, 2022.
3. **S. Tyeb**, N. Kumar, G. B, A. Kumar, and V. Verma, "Ph modulating agar dressing for chronic wound," *Soft Materials*, vol. 20, 2022.
4. L. Yadav, A. Y. S. Chatterjee, **S. Tyeb**, *et al.*, "Red-emitting polyaniline-based nanoparticle probe forph-sensitive fluorescence imaging," *Biomater. Adv.*, vol. 140, 2022.
5. N. Kumar**, S. Tyeb**, and V. Verma, "Recent advances on metal oxide-polymer systems in targeted therapyand diagnosis: Applications and toxicological perspective," *J. Drug Deliv. Sci. Technol.*, vol. 66, 2021.
6. M. Belay, **S. Tyeb**, M. Kumar, K. Rathore, and V. Verma, "Synergistic effect of bacterial cellulose reinforcement and succinic acid crosslinking on the properties of agar," *International Journal of Biological Macromolecules*, vol. 165, 2020.
7. K. Jahan**, S. Tyeb**, N. Kumar, and V. Verma, "Bacterial cellulose-polyaniline porous mat for removal of methyl orange and bacterial pathogens from potable water," *J Polym Environ*, vol. 29, 2020.
8. **S. Tyeb, N**. Kumar, A. Kumar, and V. Verma, "Agar iodine transdermal patches for infected diabetic wounds," *ACS Appl. Bio Mater.*, vol. 3, 2020
9. **S. Tyeb**, P. Sheikh, V. Verma, and A. Kumar, "Adipose-derived stem cells (adscs) loaded gelatin-sericin-laminin cryogels for tissue regeneration in diabetic wounds," *Biomacromolecules*, vol. 21, 2020.
10. N. Kumar**, S. Tyeb**, N. Manzar, L. Behera, B. Ateeq, and V. Verma, "Entropically driven controlled release of paclitaxel from poly(2-ethyl-2-oxazoline) coated maghemite nanostructures for magnetically

guided cancer therapy," *Soft Matter*, vol. 14, 2018.

11 **S. Tyeb,** N. Kumar, A. Kumar, and V. Verma, "Flexible agar-sericin hydrogel film dressing for chronic wounds," *Carbohydr. Polym*, vol. 200, 2018.

12 A. Awadhiya, **S. Tyeb**, K. Rathore, and V. Verma, "Agarose bioplastic-based drug delivery system for surgical and wound dressings," *Eng. Life Sci.*, vol. 17, 2017.

Books and Chapters

1 *Techniques to fabricate electrospun nanofibers for controlled release of drugs and biomolecules" in "Biomedical Applications of PolymericNanofibers I II*. Advances in Polymer Science book series, Springer, 2022.

Miscellaneous Experience

Awards and Achievements

2012 **UGC-CSIR NET, Life Science 2012** , Lecturer Rank 28

2013 **Gate 2013, Lie Science**, Rank 87

2022 **ICMR Research Associate Fellowship**

Patents

2020 **A hydrogel dressing for wound and infection and process of preparation thereof**. Awarded by Indian Patent Office.

References

Prof Ashok Kumar

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