ZAKIR HUSAIN DELHI COLLEGE

(University of Delhi)

Faculty Details

(Please Fill the form and Email it to website@zh.du.ac.in)

Title: Dr	**Name: Ranjeet Kumar**	**Last Name: Nirala**	**Photograph**
Designation	**Assistant Professor** **Department of Zoology**		
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Educational Qualification: PhD

Degree	Institution	Year
B.Sc. Zoology	**Magadh University, Bodh Gaya**	**2008**
M.Sc. Biotechnology	**Magadh University, Bodh Gaya**	**2010**
Ph.D	**Jamia Millia Islamia** **New Delhi**	**2019**

Career Profile

- **Research associate Fellowship**, Indian Council of Medical Research (ICMR).
- **Senior Research Fellowship**, Indian Council of Medical Research (ICMR):

Administrative Assignments

Areas of Interest / Specialization

Urolithiasis, Phytochemistry, Toxicology and Pharmacology,Cancer signaling and Epigenetics

Subjects Taught

Molecular Biology, Non -Chordate, Biochemistry, Science and society and E-waist managements

Research Guidance

Publications Profile

1. **Nirala, R. K**., Dutta, P., Malik, M. Z., Dwivedi, L., Shrivastav, T. G., & Thakur, S. C. (2019). In Vitro and In Silico Evaluation of Betulin on Calcium Oxalate Crystal Formation. *Journal of the American College of Nutrition*, 1-11.
2. Sharma, S., Arif, M., **Nirala, R. K.**, Gupta, R., & Thakur, S. C. (2016). Cumulative therapeutic effects of phytochemicals in Arnica montana flower extract alleviated collagen-induced arthritis: inhibition of both pro-inflammatory mediators and oxidative stress. *Journal of the Science of Food and Agriculture*, *96*(5), 1500-1510.
3. Sarwar, A. H. M. G., **Nirala, R. K**., Arif, M., Khillare, B., & Thakur, S. C. (2015). Spermicidal activity of the hexane extract of Piper longum: an in vitro study. *Natural product research*, *29*(12), 1166-1169.
4. Tara, N., Siddiqui, S. I., **Nirala, R. K**., Abdulla, N. K., & Chaudhry, S. A. (2020). Synthesis of antibacterial, antioxidant and magnetic Nigella sativa-graphene oxide based nanocomposite BC-GO@ Fe3O4 for water treatment. *Colloid and Interface Science Communications*, *37*, 100281
5. Abdulla, N.K., Siddiqui, S.I., Fatima, B., Sultana, R., Tara, N., Hashmi, A.A., Ahmad, R., Mohsin, M., **Nirala, R.K**., Linh, N.T. and Bach, Q.V., 2020. Silver based hybrid nanocomposite for dye removal: A novel antibacterial material for water cleansing. *Journal of Cleaner Production*, p.124746.

6. Fatima, B., Siddiqui, S. I., Nirala, R. K., Vikrant, K., Kim, K. H., Ahmad, R., & Chaudhry, S. A. (2021). Facile green synthesis of ZnO–CdWO4 nanoparticles and their potential as adsorbents to remove organic dye. *Environmental Pollution*, *271*, 116401.
7. Annu, Ahmed, S., Nirala, R. K., Kumar, R., & Ikram, S. (2021). Green synthesis of chitosan/nanosilver hybrid bionanocomposites with promising antimicrobial, antioxidant and anticervical cancer activity. *Polymers and Polymer Composites*, 0967391121993977.
8. Saleem Anwara , Virendra Singha , **Ranjeet Kumar Niralaa**,b, Sneh Prabhaa , Fareeda Athara , Sanjay Kumarc , Sonu Chand Thakur*a (2023) Synthesis of Benzotriazole based azetidinone derivatives and their evaluation on calcium oxalate crystallization (29) 4,1226-4512
9. Virendra Singha , Ranjeet Kumar Niralaa, c , Divya Vermaa, b , Fareeda Athara , T.G. Shrivastavb , Bimal Prasad Jitd , Sanju Sharmad , Sonu Chand Thakura*(2023) Synthesis of Coumarin thiazole based Schiff base Derivatives and Their Evaluation as Potential Antiurolithiatic Agents (27)4, 1226-4512.

Conference Organization/ Presentations (in the last five years)

1. Two day workshop participated in hands-on workshops on **microtomy principal and procedure** held on 20th-21th June 2023 organized by Department of Zoology KMC Delhi University.
2. Bimal Prasad Jit, **Ranjeet Kumar Nirala**, and Ashok Sharma. Interplay between Notch1 and POTEE signaling axis regulates oncogenic phenotype in epithelial ovarian cancer. Frontiers area of research- Life Sciences, Young Scientists' Conference (*YSC*) India International Science Festival (*IISF*)-2022, January 21-25, 2023 (**Best poster award**).
3. Deeksha Sharma, **Ranjeet Kumar Nirala**, Bimal Prasad Jit and Ashok Sharma**.** Artificial intelligence and machine learning algorithm for early diagnosis and better prognosis of cancer in India. Frontiers area of research- Life Sciences, STREE Conference. November 24-26. (**Best poster award**).
4. Bimal Prasad Jit, **Ranjeet Kumar Nirala,** Ashok Sharma. Potential interplay between Notch1 and POTEE signaling axis regulates oncogenic phenotype in epithelial ovarian

cancer. Frontiers area of research- Life Sciences, AIIMS Research day, October 18, 2022.

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

1. Bimal Prasad Jit, **Ranjeet Kumar Nirala**, and Ashok Sharma. Interplay between Notch1 and POTEE signaling axis regulates oncogenic phenotype in epithelial ovarian cancer. Frontiers area of research- Life Sciences, Young Scientists' Conference (*YSC*) India International Science Festival (*IISF*)-2022, January 21-25, 2023 (**Best poster award**).
2. Deeksha Sharma, **Ranjeet Kumar Nirala**, Bimal Prasad Jit and Ashok Sharma**.** Artificial intelligence and machine learning algorithm for early diagnosis and better prognosis of cancer in India. Frontiers area of research- Life Sciences, STREE Conference. November 24-26. (**Best poster award**).

Association With Professional Bodies

Other Activities