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Current Position

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Research Interest/Specialisation

1. Biochemistry/Biosciences/Life Sciences
2. Cancer Biology
3. Oxidative Stress
4. Natural plant products

Teaching Experience:	>13 Years	Research Experience:	>21 Years
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Publications:

1. Nigam M., Kukreti S., Singh S., Mishra A.P. Unveiling the Role of Glutathione S-transferase Protein in Breast Cancer Drug Resistance: Insights into the Signaling Pathways and

Therapeutic Implications. (2026) ACS Pharmacol. Transl. Sci
<https://doi.org/10.1021/acsptsci.6c00043> (**Impact factor 4.0**)

2. Namboozee J., Mishra AP., Nigam M., Seidel V., Bonnet SL., Exploring the phytochemical composition, ethnomedicinal uses, and therapeutic potential of *Prunus* species: a comprehensive review 2026, Naunyn-Schmiedeberg's Archives of Pharmacology, <https://doi.org/10.1007/s00210-026-05267-z> (**Impact factor 3.1**)
3. Mishra, A.P., Atipimonpat, A., Nigam, M., Yalo, M., Singh, S., Chittasupho, C., Namboozee, J., Ngamkham, J. and Waranuch, N., 2026. *Elaeodendron buchananii* (Loes.) Loes. stem bark: Unveiling the phytochemical profiles and selective bioactivity to combat tongue cancer. Archives of Oral Biology, 181, p.106434. <https://doi.org/10.1016/j.archoralbio.2025.106434> (**Impact factor 2.1**)
4. Nigam, M.; Punia, B.; Dimri, D.B.; Mishra, A.P.; Radu, A.-F.; Bungau, G. Reactive Oxygen Species: A Double-Edged Sword in the Modulation of Cancer Signaling Pathway Dynamics. Cells 2025, 14, 1207. <https://doi.org/10.3390/cells14151207> (**Impact factor 5.2**)
5. Chandra, H.; Vishwakarma, S.; Makwana, N.; Kharat, A.S.; Chaudhry, V.; Chand, S.; Prasad, R.; Prakash, S.; Katara, A.; Yadav, A., Nigam M, Mishra AP., Eco-Friendly Silver Nanoparticles Synthesis Method Using Medicinal Plant Fungal Endophytes—Biological Activities and Molecular Docking Analyses. Biology 2025, 14(8), 950. <https://doi.org/10.3390/biology14080950> (**Impact factor 3.5**)
6. Mishra AP, Tangsumranjit A, Nigam M, Chandra H, Almalki FA, Hadda TB, Waranuch N., Integrative in silico and Petra/Osiris/Molinspiration (POM) analysis of baicalein: identification of therapeutically relevant pharmacophores against keloid pathology. Drug Target Insights 2025; 19: 49-58 <https://doi.org/10.33393/dti.2025.3574> (**Impact factor 2.5**)
7. Capó X, Kumar R, Mishra A.P., Nigam M., Waranuch N., Martorell M., Sharopov F., Calina D., Popa D., Setzer W. N., Sharifi-Rad J, Pezzani R. Baicalein and baicalin in cancer therapy: Multifaceted mechanisms, preclinical evidence, and translational challenges. Seminars in Oncology, 52 (5), 2025,152377 <https://doi.org/10.1016/j.seminoncol.2025.152377> (**Impact factor 2.5**)
8. Upare, M.M., Thorawade, K.M., Mishra, A.P., Nigam, M. and Waranuch, N., 2025. Lipid-Based Nanocarriers in Topical Applications for Skin Infections. Current Opinion in Pharmacology, 83,p.102541 <https://doi.org/10.1016/j.coph.2025.102541> (**Impact factor 4.0**)
9. Rauf A, Rashid U, Akram Z, Khan M, Shaheen S, Min HS, Jamil J, Alshammari A, Albekairi NA, Nigam M & Mishra AP (2025): Unveiling tyrosinase inhibition: exploring secondary metabolites from *Fernandoa adenophylla* through biological screening and molecular docking. Natural Product Research, DOI: 10.1080/14786419.2025.2491829 (**Impact factor 2.2**)
10. Singh N., Gusain A., Nigam M., Mishra AP., The pharmacological and therapeutic versatility of *Allium* species: a comprehensive exploration of bioactive constituents and biological Activities. Discover Applied Sciences, (2025) 7:349 | <https://doi.org/10.1007/s42452-025-06800-0> (**Impact factor 2.8**)
11. Dimri D.B., Nigam M., Singh N., Semwal S., Iriti M, Mishra AP. Orchestrating the Phytochemical Content and Bioactivities in the Leaf, Bark, and Fruit Extracts of *Cornus*

capitata Wall. *Phyton-International Journal of Experimental Botany* 94(3), 1007-1027,(2025)
<https://doi.org/10.32604/phyton.2025.061270> **(Impact factor 1.3)**

12. Mishra, A.P., Kumar, R., Harilal, S., Nigam, M., Datta, D., Singh, S., Waranuch, N. and Chittasupho, C., 2024. Demystifying the management of cancer through smart nano-biomedicine via regulation of reactive oxygen species. *Naunyn-Schmiedeberg's Archives of Pharmacology*, (2024), 398, 497-532. <https://doi.org/10.1007/s00210-024-03469-x> . **(Impact factor 3.1)**
13. Negi, R., Nigam, M. and Singh, R.K., 2024. Harnessing Leptolyngbya for antiproliferative and antimicrobial metabolites through lens of modern techniques: A review. *Algal Research*, 83, p.103702. <https://doi.org/10.1016/j.algal.2024.103702> **(Impact factor 4.6)**
14. Chandra, H., Yadav, A., Prasad, R., Sagar, K., Bhardwaj, N., Gupta, K.K., Thakur, G.S., Nigam, M., Pezzani, R., de Lima, J.P.M. and Coutinho, H.D.M., 2024. COVID 19: Prevention and treatment through the Indian perspective. *Cytokine*, 183, p.156756. <https://doi.org/10.1016/j.cyto.2024.156756> **(Impact factor 3.7)**
15. Mishra AP, Kumar R, Harilal S, Nigam M, Datta D, Singh S. Emerging Landscape of In Vitro Models for Assessing Rheumatoid Arthritis Management. *ACS Pharmacology & Translational Science* 2024, 7, 8, 2280–2305 <https://doi.org/10.1021/acsptsci.4c00260> **(Impact factor 5.1)**
16. Nigam M., Devi K., Coutinho H.D.M., Mishra A.P. Exploration of gut microbiome and inflammation: A review on key signaling pathways. *Cellular Signaling*, 118, (2024) 111140 <https://doi.org/10.1016/j.cellsig.2024.111140> **(Impact factor 4.4)**
17. Mishra, A. P., Nigam, M., Namboozee, J., Salau, V. F., Olofinson, K. A., Iriti, M., & Matsabisa, M. G. GC-MS Analysis, Antioxidant, and Antidiabetic Properties of Methanol Extract of *Annona muricata* L. Leaves-An In vitro and In silico Study. *Current Organic Chemistry*, (2023), 27(17),1531-1541 <https://doi.org/10.2174/0113852728254495231002100354> **(Impact Factor: 2.226)**
18. Nigam M., Mishra A.P., Deb V.K., Dimri D.D, Tiwari V, Bungau S.G., Bungau A. F., Radu A.F. Evaluation of the association of chronic inflammation and cancer: Insights and implications. *Biomedicine & Pharmacotherapy* 2023; 164, 115015 <https://doi.org/10.1016/j.biopha.2023.115015> **(Impact Factor: 6.9)**
19. Nigam D, Muthukrishnan E, Flores-López LF, Nigam M, Wamaitha MJ. Comparative Genome Analysis of Old World and New World TYLCV Reveals a Biasness toward Highly Variable Amino Acids in Coat Protein. *Plants* 2023; 12(10):1995. <https://doi.org/10.3390/plants12101995> **(Impact Factor: 4.6)**
20. Mishra, A.P.; Swetanshu; Singh, P.; Yadav, S.; Nigam, M.; Seidel, V.; Rodrigues, C.F. Role of the Dietary Phytochemical Curcumin in Targeting Cancer Cell Signalling Pathways. *Plants* 2023, 12, 1782. <https://doi.org/10.3390/plants12091782> **(Impact Factor: 4.6)**
21. Jennifer N, Mishra AP, Nigam M, Devkota HP, Paudel KR, Matsabisa MG. Bioactive Compounds from the Plants of the Elaeodendron Genus and Their Biological Activities—A

- Review. *Applied Sciences*. 2022; 12(24):12618. <https://doi.org/10.3390/app122412618> **(Impact Factor: 2.8)**
22. Bhandari, M., Singh, R.K., Laishevcev, A., Mohapatra, T.M., Nigam, M., Mori, E., de Lacerda, B.C.G.V., Coutinho, H.D.M. and Mishra, A.P., 2022. Revisiting scrub typhus: a neglected tropical disease. *Comparative Immunology, Microbiology and Infectious Diseases*, 90, p.101888. **(Impact factor 2.0)**
 23. Nigam, M., Panwar, A. S., & Singh, R. K. Orchestrating the Fecal Microbiota Transplantation: Current Technological Advancements and Potential Biomedical Application. *Frontiers in Medical Technology*, 69 (2022) <https://doi.org/10.3389/fmedt.2022.961569> **(Impact factor 1.179)**
 24. Bisht S., Nigam M., Kunjwal S.S., Sergey P., Mishra A.P. and Sharifi-Rad J. Cancer Stem Cells: From an Insight into the Basics to Recent Advances and Therapeutic Targeting. *Stem cells international* 2022, 9653244 (2022) <https://doi.org/10.1155/2022/9653244> **(Impact factor 5.443)**
 25. Olatunde, A., Nigam, M., Singh, R.K. et al. Cancer and diabetes: the interlinking metabolic pathways and repurposing actions of antidiabetic drugs. *Cancer Cell Int*. 21, 499 (2021). <https://doi.org/10.1186/s12935-021-02202-5> **(Impact factor 6.429)**
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 28. Das, G., Shin, H. S., Leyva-Gómez, G., Prado-Audelo, M., Cortes, H., Singh, Y. D., Panda, M. K., Mishra, A. P., Nigam, M., Saklani, S., Chatur, P. K., Martorell, M., Cruz-Martins, N., Sharma, V., Garg, N., Sharma, R., & Patra, J. K. (2021). *Cordyceps* spp.: A Review on Its Immune-Stimulatory and Other Biological Potentials. *Frontiers in pharmacology*, 11, 602364. <https://doi.org/10.3389/fphar.2020.602364> **(Impact factor 5.9)**
 29. Salehi, B., Quispe, C., Sharifi-Rad, J., Cruz-Martins, N., Nigam, M., Mishra, A.P., Konovalov, D.A., Orobinskaya, V., Abu-Reidah, I.M., Zam, W. and Sharopov, F., 2021. Phytosterols: From preclinical evidence to potential clinical applications. *Frontiers in Pharmacology*, 11, p.1819. <https://doi.org/10.3389/fphar.2020.599959> **(Impact factor 5.9)**
 30. Salehi B, Mishra AP, Nigam M, Karazhan N, Shukla I, Dadasiewicz AK, Sawicka B, Głowacka A, Darwish MSA, Tarawneh AH, Gadetskaya AV, Cabral C, Salgueiro L, Victoriano M, Martorell M, Docea AO, Abdolshahi A, Calina D, Sharifi-Rad J. *Ficus* plants: State of the art from a phytochemical, pharmacological, and toxicological perspective *Phytotherapy Research* 2020, 35(3), 1187-1217 **(Impact factor 7.2)** <https://doi.org/10.1002/ptr.6884>
 31. Mishra AP, Devkota HP, Nigam M, Adetunji CO, Srivastava N, Saklani S, Shukla I, Azmi L, Shariati MA, Coutinho HDM, Khaneghah AM. Combination of essential oils in dairy products: A review of their functions and potential benefits *LWT - Food Science and Technology* 2020, 133, 110116 <https://doi.org/10.1016/j.lwt.2020.110116> **(Impact factor 4.9)**
 32. Sharifi-Rad M, Anil Kumar NV, Zucca P, Varoni EM, Dini L, Panzarini E, Rajkovic J, Tsouh Fokou PV, Azzini E, Peluso I, Prakash Mishra A, Nigam M, El Rayess Y, Beyrouthy ME, Polito L, Iriti M, Martins N, Martorell M, Docea AO, Setzer WN, Calina D, Cho WC and Sharifi-Rad J. Lifestyle, Oxidative Stress, and Antioxidants: Back and Forth in the Pathophysiology of Chronic Diseases. *Frontiers in Physiology* 2020, 11:694. <https://doi.org/10.3389/fphys.2020.00694> **(Impact factor 4.56)**

33. Salehi, B., P. Mishra, A., Nigam, M., Kobarfard, F., Javed, Z., Rajabi, S., Khan, K., Ahsan Ashfaq, H., Ahmad, T., Pezzani, R., Ramírez-Alarcón, K., Martorell, M., C. Cho, W., Ayatollah, S., Sharifi-Rad, J. (2020). Multivesicular liposome (DepoFoam) in human diseases. *Iranian Journal of Pharmaceutical Research*, 19(2), 9-21. doi: 10.22037/ijpr.2020.112291.13663 **(Impact factor 1.9)**
34. Nigam M, Mishra AP, Devkota AA, Dirar AI, Hassan MM, Adhikari A, Belwal T, Devkota HP. Fruits of *Terminalia chebula* Retz.: A review on traditional uses, bioactive chemical constituents and pharmacological activities *Phytotherapy Research* 2020, 34(10), 1-19 <https://doi.org/10.1002/ptr.6702> **(Impact factor 7.2)**
35. Salehi B, Konovalov DA, Fru P, Kapewangolo P, Peron G, Ksenija MS, Cardoso SM, Pereira OR, Nigam M, Nicola S, Pignata G, Rapposelli S, Sestito S, Kumar NVA, Cádiz-Gurrea ML, Segura-Carretero A, Mishra AP, Sharifi-Rad M, Cho WC, Taheri Y, Setzer WN, Sharifi-Rad J. Areca catechu—From farm to food and biomedical applications. *Phytotherapy Research* 2020, 34(9), 1-19 <https://doi.org/10.1002/ptr.6665> **(Impact factor 7.2)**
36. Salehi, B.; Azzini, E.; Zucca, P.; Maria Varoni, E.; V. Anil Kumar, N.; Dini, L.; Panzarini, E.; Rajkovic, J.; Valere Tsouh Fokou, P.; Peluso, I.; Prakash Mishra, A.; Nigam, M.; El Rayess, Y.; El Beyrouthy, M.; N. Setzer, W.; Polito, L.; Iriti, M.; Sureda, A.; Magdalena Quetglas-Llabrés, M.; Martorell, M.; Martins, N.; Sharifi-Rad, M.; M. Estevinho, L.; Sharifi-Rad, J. Plant-Derived Bioactives and Oxidative Stress-Related Disorders: A Key Trend towards Healthy Aging and Longevity Promotion. *Applied Sciences* **2020**, 10, 947 <https://doi.org/10.3390/app10030947> **(Impact Factor: 2.8)**
37. Naseri R, Navabi SJ, Samimi Z, Mishra AP, Nigam M, Chandra H, Olatunde A, Tijjani H, Morais-Urano R, Farzaei MH Targeting Glycoproteins as a therapeutic strategy for diabetes mellitus and its complications *DARU J Pharm Sci* (2020) 28, 333-358. <https://doi.org/10.1007/s40199-020-00327-y> **(Impact Factor: 4.0)**
38. Salehi B, Sahrifi-Rad J, Seca AML, Pinto DCGA, Michalak I, Trincone A, Mishra AP, Nigam M, Zam W and Martins N Current Trends on Seaweeds: Looking at Chemical Composition, Phytopharmacology, and Cosmetic Applications *Molecules* 2019, 24(22), 4182; <https://doi.org/10.3390/molecules24224182> **(Impact Factor: 4.9)**
39. Nigam M, Atanassova M, Mishra AP, Pezzani R, Devkota HP, Plygun S, Salehi B, Setzer WN and Sharifi-Rad J Bioactive Compounds and Health Benefits of *Artemisia* Species *Natural Product Communications* 2019: 14(1):1–17 DOI: 10.1177/1934578X19850354 **(Impact Factor: 0.98)**
40. Nigam M, Suleria H.A.R., Farzaei M.H., Mishra A.P. Marine anticancer drugs and their relevant targets: a treasure from the ocean. *DARU Journal of Pharmaceutical Sciences* 2019, 27(1):491-515, <https://doi.org/10.1007/s40199-019-00273-4> **(Impact Factor: 4.0)**
41. Saklani S, Rawat Y, Plygun S, Shariati MA, Nigam M, Maurya VK, Yadav A, Mishra AP Biological activity and preliminary phytochemical screening of *Terminalia alata heyne ex roth*. *J Microbiol Biotech Food Sci* 2019 : 8 (4) 1010-1015 <https://doi.org/10.15414/jmbfs.2019.8.4.1010-1015>
42. Nigam M, Mishra AP, Salehi B, Kumar M, Sahrifi-Rad M, Coviello E, Iriti M, Sharifi-Rad J Accelerated ageing induces physiological and biochemical changes in tomato seeds involving

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44. Salehi, B.; Mishra, A.P.; Nigam, M.; Sener, B.; Kilic, M.; Sharifi-Rad, M.; Fokou, P.V.T.; Martins, N.; Sharifi-Rad, J. Resveratrol: A Double-Edged Sword in Health Benefits. Biomedicine 2018, 6(3), 91. <https://doi.org/10.3390/biomedicine6030091> (Impact Factor: 4.7)
45. Nigam M, Saklani S, Plygun S, Mishra AP. Antineoplastic potential of the *Vitex* species: An overview Boletín latino americano y del caribe de plantas medicinales y aromáticas (2018),17(5): 492-502 (Impact Factor: 0.90)
46. Kumar, M., Yusuf, M.A., Nigam, M. An Update on Genetic Modification of Chickpea for Increased Yield and Stress Tolerance. Molecular Biotechnology 2018, 60(8):651-663 <https://doi.org/10.1007/s12033-018-0096-1> (Impact Factor: 2.69)
47. Mishra, A.P., Salehi, B., Sharifi-Rad, M., Pezzani R., Kobarfard F., Sharifi-Rad J., Nigam M. Programmed Cell Death, from a Cancer Perspective: An Overview Molecular Diagnosis and Therapy 2018, 22: 281-295. <https://doi.org/10.1007/s40291-018-0329-9> (Impact Factor: 4.0)
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49. Saklani, S.; Mishra, A.P.; Chandra, H.; Atanassova, M.S.; Stankovic, M.; Sati, B.; Shariati, M.A.; Nigam, M.; Khan, M.U.; Plygun, S.; Elmsellem, H.; Suleria, H.A.R. Comparative Evaluation of Polyphenol Contents and Antioxidant Activities between Ethanol Extracts of *Vitex negundo* and *Vitex trifolia* L. Leaves by Different Methods. Plants 2017, 6, 45-55. doi: 10.3390/plants6040045 (Impact Factor: 4.6)
50. Singh, N., Nigam, M., Ranjan, V., Garg, V.K., Sharma, S., Chaturvedi, R., Shankar, R., Kumar, S., Sharma, R., Balapure, A.K., Rath, S.K. Resveratrol as an adjunct therapy in cyclophosphamide-treated MCF-7 cells and breast tumor explants Cancer Science 2011, 102, 1059-1067. doi: 10.1111/j.1349-7006.2011.01893.x. (Impact Factor: 6.5)
51. Nigam, M., Singh, N., Ranjan, V., Zaidi, D., Nigam, D., Sharma, R., Gupta, D.K., Sundaram, S., Balapure, A. K. Centchroman mediated apoptosis involves cross-talk between extrinsic/intrinsic pathways and oxidative regulation. Life Sciences 2010, 87: pp. 750-758 doi: 10.1016/j.lfs.2010.10.015 (Impact Factor: 6.1)
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Chapters in Edited Books:

1. Nigam M., Saingar P.S., Mishra A.P., (2027) Clinical nutrition and natural therapeutics: Healing through nature's bounty, In: Editor(s): Abdur Rauf, Giovanni Ribaudo, Exploring Health Benefits of Phenolic Compounds in Food By-Products and Functional Foods, Academic Press, 2027, 251-266, ISBN 9780443340710, <https://doi.org/10.1016/B978-0-443-34071-0.00020-8>, (Publication date 1st Oct 2026), No. of pages 544.
2. Gautam A., Kumar S., Nigam M., Jyoti V, (2027) Sports nutrition: Maximising performance with natural products, In: Editor(s): Abdur Rauf, Giovanni Ribaudo, Exploring Health Benefits of Phenolic Compounds in Food By-Products and Functional Foods, Academic Press, 2027, 205-220, ISBN 9780443340710, <https://doi.org/10.1016/B978-0-443-34071-0.00020-8>, (Publication date 1st Oct 2026), No. of pages 544
3. Nigam, M., Singh, N., Dimri, D.B., Mishra, A.P. (2025). Biotechnology in Medicine: Fundamentals. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 1-24, ISBN: 978-981-96-4958 https://doi.org/10.1007/978-981-96-4959-4_1 (Publication date 13th May 2025), No. of pages 478.
4. Arabpour, J., Davodabadi, F., Nigam, M. (2025). Cancer Immunotherapy. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 49-113, ISBN: 978-981-96-4958 https://doi.org/10.1007/978-981-96-4959-4_3 (Publication date 13th May 2025), No. of pages 478.
5. Singh, N., Nigam, M. (2025). Cell Therapy of Cancer. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 149-176, ISBN: 978-981-96-4958 https://doi.org/10.1007/978-981-96-4959-4_5 (Publication date 13th May 2025), No. of pages 478.
6. Rawat, N., Nigam, M., Mishra, A.P., Singh, N. (2025). Role of MicroRNAs in Cancer. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 381-410, ISBN: 978-981-96-4958 https://doi.org/10.1007/978-981-96-4959-4_12 (Publication date 13th May 2025), No. of pages 478,
7. Davodabadi, F., Arabpour, J., Nigam, M. (2025). Gene Therapy of Cancer. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 411-445 ISBN: 978-981-96-4958 https://doi.org/10.1007/978-981-96-4959-4_13 (Publication date 13th May 2025), No. of pages 478

8. Jena, R., Samal, H.B., Sharma, J., Suresh, P., Mishra, A.P., Nigam, M. (2025). Biotechnology in Drug Discovery and Development for Cancer. In: Nigam, M., Mishra, A.P. (eds) Biotechnology and Cancer Therapeutics. Interdisciplinary Biotechnological Advances. Springer, Singapore. (2025), pages 447-478, ISBN: 978-981-96-4958-7 https://doi.org/10.1007/978-981-96-4959-4_14 (Publication date 13th May 2025), No. of pages 478
9. Sakshi, Singh, P., Mishra, A.P., Mishra, P., Nigam, M., Singh, S. Recent Trends in the Valorization of Value-Added Biomass from Microbes for Sustainable Development. In: Microbial Niche Nexus Sustaining Environmental Biological Wastewater and Water-Energy-Environment Nexus. Environmental Science and Engineering. Kandasamy, S., Shah, M.P., Subbiah, K., Manickam, N. (eds) Springer, Cham. (2025), pages 377-395, ISBN:978-3-031-62659-3 https://doi.org/10.1007/978-3-031-62660-9_15 (Publication date 16th January 2025), No. of pages 400
10. Mishra A.P., Azmi L., Nigam M., Urano R.P.M., Yadav A., and Matsabisa M.G. Rutaceae: An Insight into Healthcare and Clinical Applications. In: Phytochemical and Pharmacological Investigation of the Family Rutaceae . Eds. Rauf A., Suleria H.A.R., Shah S.M.M. Apple academic press. **2024**, pages 161-176, ISBN: 9781774913710 (Publication date 5th July 2024) No. of pages 242
11. Kumar R., Harilal S., Gautam A., Nigam M., Mishra A.P., “Phytopharmaceuticals as an Alternative Treatment against Parasites” In: Parasitic Infections: Immune Responses and Therapeutics. Eds. Mishra A.P & Nigam M., Wiley, 2023, Pages 251-302, ISBN: 978-1-119-87802-5 (Publication date 20th July 2023) No. of pages 432
12. Olatunde A., Ogunro O., Tijjani H., Obidola S. M., Akpaki M.A., Yadav A., Nigam M., Mishra A.P., “Immune Response against Protozoan Parasites” In: Parasitic Infections: Immune Responses and Therapeutics. Eds. Mishra A.P & Nigam M., Wiley, 2023, Pages 73-99, ISBN: 978-1-119-87802-5 (Publication date 20th July 2023) No. of pages 432
13. Nigam M., Mishra A.P. Indian Medicinal Plants and Their Potential Against Coronaviruses. In: Sustainable Uses and Prospects of Medicinal Plants. Eds. Kambizi L., Bvenura C., CRC Press, 2023, pages 145-159, ISBN: 9781032071732 (Publication date 5th May 2023) No. of pages 464
14. Saklani S., Saklani D. P., Nigam M., Sinisgalli C., Mishra A.P., ‘Traditional healthcare practices of herbal drugs in Uttarakhand Himalaya, India’ In: Sustainable Uses and Prospects of Medicinal Plants. Eds. Kambizi L., Bvenura C., CRC Press, 2023, pages 387-412, ISBN: 9781032071732 (Publication date 5th May 2023) No. of pages 464
15. Singh D, Nigam M, Mishra A.P., Devkota H.P., Saxena J. *Cyphomandra betacea* (Cav.) Sendtn In: Himalayan Fruits and Berries Bioactive Compounds, Uses and Nutraceutical Potential. Eds. Belwal T., Bhatt I., Devkota H. Academic press (Elsevier), 2023, pages 99-110, ISBN: 978-0-323-85591-4 (Publication date 1st Jan 2023) No. of Pages 538
16. Mishra A.P., Nigam M., Devkota H., Matsabisa M. G., *Dolomiaea costus* (Falc.) Kasana and A. K. Pandey: Ethnomedicinal Uses, Bioactive Chemical Constituents, and Pharmacological Activities. In: Medicinal Plants of the Asteraceae Family. Eds. Devkota H., Aftab T., Springer nature, **2022**, pages 153-172, ISBN: 978-981-19-6079-6 (Publication date 7th Dec. 2022) No. of Pages 230

17. Mishra A.P., Srivastav N., Singh A., Nigam M., Pezzani R., Egbuna C., Uche C.Z., Khan J. The Role of Nutraceuticals as Food and Medicine, Types and Sources. In: Food and Agricultural Byproducts as Important Source of Valuable Nutraceuticals. Eds. Egbuna C., Sawicka B., Khan J. Springer nature, **2022**, Pages 1-18, ISBN 9783030987596 (Publication date 12th July 2022) No. of Pages 257
18. Nigam M. Phytomedicine: Scope and current highlights. In: Preparation of Phytopharmaceuticals for the Management of Disorders. Eds. Egbuna C., Mishra AP., Goyal MR. Academic Press, Elsevier (USA), 2021, Pages 39-54, ISBN 9780128202845 (Publication date 1st Jan 2021) No. of Pages 558
19. Nigam M. "Physiological Experiments" In: Laboratory exercise (MSCZO505), Ed. Tiwari H.C., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp. 170-196, ISBN 9789390845590
20. Nigam M. "Biochemistry Experiments" In: Laboratory exercise (MSCZO505), Ed. Tiwari H.C., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp. 197-222, ISBN 9789390845590
21. Nigam M. "Chemical Equilibrium" In: Biochemistry (MSCZO504), Ed. Bubber P., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp 1-34. ISBN 9789390845514
22. Nigam M. "Enzymes" In: Biochemistry (MSCZO504), Ed. Bubber P., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp 35-76. ISBN 9789390845514
23. Nigam M. "Vitamins" In: Biochemistry (MSCZO504), Ed. Bubber P., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp 77-112. ISBN 9789390845514
24. Nigam M. "Carbohydrates" In: Biochemistry (MSCZO504), Ed. Bubber P., Uttarakhand Open University, Haldwani, Uttarakhand, 2021, pp 113-139. ISBN 9789390845514
25. Nigam M. "Vitamins" In: Physiology and Biochemistry (BSCZO301), Ed. Tiwari H.C., Uttarakhand Open University, Haldwani, Uttarakhand, 2019, pp 282-321. ISBN 9789390845620
26. Nigam M. "Enzymes" In: Physiology and Biochemistry (BSCZO301), Ed. Tiwari H.C., Uttarakhand Open University, Haldwani, Uttarakhand, 2019, pp 345-386. ISBN 9789390845620

Book Editor:

1. Parasitic Infections: Immune Responses and Therapeutics. Editors Mishra A.P., Nigam M., Wiley, 2023, Pages 432, ISBN: 978-1-119-87802-5 DOI: 10.1002/9781119878063
2. Biotechnology in Cancer Therapeutics. Editors Nigam M., Mishra A.P., Springer Singapore, 2025, Pages 478, ISBN: 978-981-96-4958-7 DOI:10.1007/978-981-96-4959-4
3. Concepts of Cell Biology and Genetics (MSCZO-506), M.Sc. Zoology II Semester Programme 2022-23. Uttarakhand Open University, Haldwani, Uttarakhand, ISBN 978-81-19816-55-2.

Popular Article:

1. डॉ. मनीषा निगम, **“तनाव एक वास्तविकता”**, विज्ञज्योति, देवभूमि विज्ञान समिति, विभा उत्तराखंड की ऑनलाइन त्रैमासिक पत्रिका, अंक १, खण्ड-1, मई २०२४
2. Nigam M., **Awareness is the key in combating “Cancer”**. Newsletter, H.N.B. Garhwal University (A Central University), Srinagar (Garhwal), Uttarakhand-246174, India. Vol. 2, Issue 1, Page 3, January-June 2022

Total Citations: $\approx$ (8500)

Total Impact Factor $\approx$ 225

Total Number of Research Publications: 79

Research Papers- 53

Chapters in Edited Books- 26

h-index = 31

i10 index= 41

Awards & Scholarships:

- **“National Teachers Award-2026”** under the HEI category, *National-level recognition for outstanding contribution to higher education, conferred by the Hon’ble President of India on 5 September 2026, Department of Higher Education, Ministry of Education, Government of India.*
- Recognised among the **World’s Top 5% Scientists** in the *2025 SciRank Global Registry* based on an independent bibliometric evaluation by **SciRank Global**.
- Included in the top 100,000 scientists by c-score (with and without self-citations) or a percentile rank of 2% as per Elsevier dataset. In Stanford/Elsevier's top 2% Scientist from all over the World List.
- Ioannidis, John P.A. (2026), “August 2026 data-update for "Updated science-wide author databases of standardized citation indicators"”, Elsevier Data Repository, V9, doi: 10.17632/btchxktzyw.9
- Ioannidis, John P.A. (2025), “August 2025 data-update for "Updated science-wide author databases of standardized citation indicators"”, Elsevier Data Repository, V8, doi: 10.17632/btchxktzyw.8
- Ioannidis, John P.A. (2024), "August 2024 data-update for "Updated science-wide author databases of standardised citation indicators", Elsevier Data Repository, V7, doi: 10.17632/btchxktzyw.7
- Ioannidis, John P.A. (2023), "October 2023 data-update for "Updated science-wide author databases of standardised citation indicators", Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6
- **“Outstanding Scientist Award-2022”** for outstanding contribution to “Natural plant products based therapy” on the occasion of “National Seminar on Conversation of Biodiversity” held on 2nd and 3rd September 2022 by the Society for Conservation of Natural Resources (Registration No. 150200031/2021), Kolkata, West Bengal 700136.

- "Fox Asia Conference & Awards 2020 by Social Talks (Registration No. 228/2019) on 1st Feb. 2020 for **"Research Excellence Award in the field of Biochemistry"**
- P.C. Dandiya Best Poster Presentation Award.
- Awarded CSIR-SRF (Oct 2006-Sept 2009)
- Awarded C.S.I.R. (NET) - JRF of December 2003 (Oct 2004- Oct 2006)
- Discover Oncology, Springer Nature
<https://link.springer.com/journal/12672>
- PLOS ONE, PLOS
<https://journals.plos.org/plosone/>

Reviewer of International Journals

PharmaNutrition, Elsevier
 The Microbe, Elsevier
 Biocatalysis and Agricultural Biotechnology, Elsevier
 Journal of Food Composition and Analysis, Elsevier
 International Journal of Biological Macromolecules, Elsevier
 Food Chemistry, Elsevier
 Phytomedicine Plus, Elsevier
 Pharmacological Research - Natural Products, Elsevier
 Biomedicine & Pharmacotherapy, Elsevier
 Pharmacological Research - Modern Chinese Medicine, Elsevier
 Neuroscience Letters, Elsevier
 Trends in Cell Biology, Elsevier
 Biochimie, Elsevier
 Arabian Journal of Chemistry, Elsevier
 European Journal of Pharmacology, Elsevier
 Food Bioscience, Elsevier
 Journal of Ethnopharmacology, Elsevier
 Heliyon, Elsevier
 Food and Humanity, Elsevier
 Microbial Pathogenesis, Elsevier
 Scientia Horticulturae, Elsevier
 Saudi Pharmaceutical Journal, Elsevier
 Journal of Pharmaceutical Analysis, Elsevier
 Journal of Ayurveda and Integrative Medicine, Elsevier
 Evidence-Based Complementary and Alternative Medicine, Hindawi
 Chemistry & Biodiversity, Wiley
 Health Science Reports, Wiley
 Food Science and Nutrition, Wiley
 BioFactors, Wiley
 Toxin Reviews, Taylor and Francis
 Critical Reviews in Food Science and Nutrition, Taylor and Francis
 Applied Biochemistry and Biotechnology, Humana Press
 Cell Communication and Signalling, BioMed Central
 Cell Biology and Toxicology, Springer Nature
 Journal of Molecular Histology, Springer Nature

Discover Plants, Springer Nature
 Cancer Cell International, Springer Nature
 Naunyn-Schmiedeberg's Archives of Pharmacology, Springer Nature
 Medical Oncology, Springer Nature
 Molecular Biology Reports, Springer Nature
 Discover Oncology, Springer Nature
 Functional & Integrative Genomics, Springer Nature
 Molecular and Cellular Biochemistry, Springer Nature
 Journal of Herbal Medicine, Springer
 Human Cell, Springer Heidelberg
 Journal of Plant Biochemistry and Biotechnology, Springer
 PLOS Neglected Tropical Diseases, PLOS
 Frontiers in Oncology, Frontiers Media SA
 ChemEngineering, MDPI
 Medicina, MDPI
 Biomedicines, MDPI
 Cosmetics, MDPI
 Life, MDPI
 Cells, MDPI
 Pharmaceuticals, MDPI
 Pharmaceutics, MDPI
 International Journal of Molecular Sciences, MDPI
 Healthcare, MDPI
 Vaccines, MDPI
 Metabolites, MDPI
 Molecules, MDPI
 Plants, MDPI
 Biomed, MDPI
 The International Journal of Gastroenterology and Hepatology Diseases, Bentham Science
 Endocrine, Metabolic & Immune Disorders - Drug Targets, Bentham Science
 Molecular and Cellular Biomechanics, Tech Science Press
 Oncology Letters, Spandidos Publications

Reviewed a Book proposal titled “*Next generation resveratrol: Health and Nutraceutical Attributes*”, CRC Press, Taylor and Francis Group (April 2022).

Guest Editor: Special issue titled “Deciphering the Biological Activity of Natural Compounds: Metabolic Control and Health Repercussions” in the Journal Biology, MDPI

Project Grants:

- **Recipient of the** UGC-BSR Research Start-Up-Grant. **under the project titled “Influence of the Ageing on Biochemical and Physiological Changes in Plants: Insight into the Interlinking of Redox Regulation” worth Rs. 6 lakhs (2015)**

Work Experiences/ Courses:

Teaching and Research Experience:

Associate Professor: 19th August 2025 onwards

Assistant Professor: Stage III (19th Aug 2022-18th August 2025)

Assistant Professor: Stage II (19th Aug 2017- 18th August 2022)

Assistant Professor: Stage I (19th Aug 2013- 18 Aug 2017)

1. Doctoral Research at CDRI, in the thesis title “Study of Molecular mechanism of Novel Antiestrogen Centchroman Induced Apoptosis in MCF-7 and MDA-MB 231 Human Breast Cancer Cell lines.” with **Dr. Anil K Balapure**, Sc. F (Sr. Principal Scientist), Tissue & Cell Culture Unit, Central Drug Research Institute (CDRI), Lucknow, from 2006 – 2010.
2. 6-month experience as Junior Unichem Fellow in the Project entitled “**Expression of industrially important peptides through transgenic technology** with **Dr. Rakesh Tuli**, at N.B.R.I., Lucknow from March, 2004 to Sep, 2004

Research Guidance:

- Supervised 8 candidates in IIC -HNBGU Online Summer Internship Program 2021 organised by Institute Innovation Cell, Hemvati Nandan Bahuguna Garhwal University from June 01, 2021- July 26, 2021.
- **M.Sc. (Dissertation):** Thesis Awarded- 46
- Ph.D. – Supervisor 04 (enrolled), Co-Supervisor 01 (enrolled)
Supervisor 01 (Awarded), Co-Supervisor 01 (awarded)

Academic services:

At HNB Garhwal University:

1. Paper Setter for M.Sc. & B.Sc. (Biochemistry) Examination.
2. Paper Setter for B.Sc. Naturopathy and Yoga Examination.
3. Paper Setter for B.Sc. & M.Sc. biotechnology Examination.
4. Paper Setter for B.Sc. & M.Sc. Microbiology Examination
5. Paper Setter for B.Sc. and M.Sc. Horticulture Examination.
6. Paper Setter for M.Sc. & Ph.D. (Biochemistry) Entrance Examinations.

At other Universities/Institution:

1. External Expert Member, Research Advisory Committee (RAC), Department of Biochemistry, Swami Rama Himalayan University, Dehradun.
2. Item writer for Subject: Biology, CUET-UG 2023 for National Testing Agency (NTA)
3. Observer: UGC-NET 2026 for National Testing Agency (NTA)
4. Item writer/Evaluator for Uttarakhand Public Service Commission, Haridwar, Uttarakhand
1. Paper Setter for M.Sc. Biotechnology at SBS University, Doon.
2. Paper Setter and Practical examiner for B.Sc. and M.Sc. Zoology for Uttarakhand Open University, Haldwani.
3. Paper Setter for B.Sc. Microbiology at Sri Dev Suman Uttarakhand University, Badshahithol, Tehri, Uttarakhand
4. Paper Setter for B.Sc. & M.Sc. Biochemistry at Maa Shakumbhari University, Punwarka,

Saharanpur,
Uttar Pradesh 247120

5. Paper Setter for B.Tech. (Biotechnology) at Kerala Agricultural University, Vellanikkara, Thrissur-680656

Administrative Experience:

1. Head, Dept of Biochemistry since 1st September 2024 to till date & 1st Feb 2021 to 31st Jan 2024.
2. Departmental Purchase committee, Member (2014-20) and Convener (2021-2024)
3. Co-Convener, B.Sc. (Bio Group), Admission Committee (2024-25)
4. Assistant Director, Research and Development Cell, HNBGU since 13-02-24
5. Member, Drugs Control Committee, HNBGU since 15-05-24
6. Member of the Committee for NIRF, AISHE and IDP from 29-11-2023 to 14-08-2024
7. Member of the University's Newsletter Committee since 12-05-23
8. Member of the "IQAC Committee", HNB Garhwal University since 13-10-21 to 30-06-24.
9. Member of the Committee for "Academic and Administrative Audit for NAAC" since 14-02-23.
10. Member of "IQAC-TASK GROUPS" (Criterion III: Research, Innovations and extension) constituted for preparing SSR for applying the next cycle of NAAC.
11. NIRF coordinator for Institution's Innovation Council (IIC), HNBGU, since 6-03-23 to 05-3-24
12. Micro-Observer, (38-Srinagar, 166-GPS Chaurikh) Uttarakhand, Lok Sabha General Elections-2024.
13. Member, Cultural Programme Committee, Foundation Day celebration 2023, HNBGU
14. Member, Medal Committee, 11th Convocation 2023, HNBGU
15. Member, Students' Election Committee 2023-24, HNBGU
16. Convener of the Cultural Committee, School of Life Sciences for Inter-Faculty Cultural and Academic Competitions 2023-24.
17. Coordinator of the Cultural Committee, School of Life Sciences for Inter-Faculty Cultural and Academic Competitions 2022-23.
18. Director, Journal Club, Dept of Biochemistry, since 1st Feb 2021 to 31st Jan 2024.
19. Chairperson (Ex-officio) of the Board of studies, Department of Biochemistry, HNBGU (01-02-21 to 31-01-24).
20. Member of Board of Studies of Department of Biochemistry, H.N.B. Garhwal University, (2015-20, 01-02-24 to till date.
21. Member of Board of Studies of Department of Horticulture, H.N.B. Garhwal University, (08-04-24 to 07-04-24)
22. Member of Board of Studies of Department of Biotechnology, H.N.B. Garhwal University, (17-08-2022 to 16-08-2023 & 25-08-23 to 24-08-24)
23. Member of Anti Ragging squad since August 2019
24. Member of Institutional Ethical Committee (I.E.C; ICMR) w.e.f. 15-05-2019 to 14-05-2021.
25. N.S.S. Programme officer, Birla campus Unit, H.N.B. Garhwal University since January 2018-2021.
26. Member of the Anti-Discrimination Committee, May 2016 to April 2018.

27. Assistant Proctor (2016 to till date)
28. Member of the University Inspecting Team visiting different Colleges in connection with the extension of their affiliations.
29. Team Incharge (Science faculty) for the selection of students for the Annual Cultural Fest Programme 2017-18
30. Member of the Selection Committee for Guest Faculty appointment in the Department of Biochemistry, HNBGU (since 2014).
31. Election Officer of Student Union Election (2014-15, 2016-17).
32. Member of UG (2016, 2017, 2019, 2020, 2021, 2022, 2025) Admission Committee.
33. Convener of PG Admission Committee (2016-18, 2021-2025) & Member of PG Admission Committee (2019).

Membership of Scientific Societies:

- The **Indian Science Congress**, India. Life membership (Membership No. L30115)
- The **Society of Biological Chemists**, India. Life membership (Membership No. 3799)
- **Indian association of cancer research**, Mumbai. Life membership (Membership No. 947)
- **International Biotech Technocrats & Consultants Association**, India. Life membership (ID: IBTCA/TA/18/1013)