

Publication list Department of Biochemistry

Dr Sarita Nanda

1. Mahongnao, S., Sharma, P., Singh, D., Ahamad, A., Kumar, Pavitra V., Kumar, Pankaj,. Nanda, S (2023). Formation and characterization of leaf waste into organic compost. Environ. Sci. Pollut. Res. <https://doi.org/10.1007/s11356-023-27768-7> (28th May 2023) ISSN 16147499
2. Nishant Ranjan Chauhan, Rahul Kumar, Avinash Gupta, Ramesh Chand Meena, Sarita Nanda, Kamla Prasad Mishra, Shashi Bala Singh(2021) Heat stress induced oxidative damage and perturbation in BDNF/ERK1/2/CREB axis in hippocampus impairs spatial memory. Behavioral Brain Research. 396: 112895-112907. ISSN1660-4328 (Citations: 18)
3. Manisha Gupta, Babbar, Simran, Goel Anita, Gupta Radhika, Dohare Neeraj and Nanda Sarita(2019) Pollution Controlling Ability Of Indigenous Plant Species Growing Around Drain In Delhi. Pollution Research(2019) Vol 38, November Suppl Issue; Page No.(29-35) ISSN 0257-8050-Quarterly (Citations: 2)
4. Babbar Simran, Manisha Gupta, Neeraj Dohare, Anita Goel, Radhika Gupta and Sarita Nanda(2019) Pollution Controlling Ability Of Plant Species Growing On College Campus In Delhi, India, Pollution Research , Vol 38, November Suppl Issue; Page No.(23-29) ISSN 0257-8050-Quarterly
5. Jyoti Taneja, Taruna Arora, Anju Jain, Chandra Manshukhani, Latika Bhalla and Sarita Nanda. Polycystic Ovary Syndrome Risk: Efficacy of Self Assessment Test Int. J Reprod Contracept Obstet & Gynecol(2020) Jul; 9(7): 2015-20 pISSN 2320-1770 | eISSN 2320-1789 (Citations: 2)
6. Nishant Ranjan Chauhan, Medha Kapoor, Laxmi Prabha Singh, Rajinder Kumar Gupta, Ramesh Chand Meena, Rajkumar Tulsawani, Sarita Nanda, Shashi Bala Singh (2017) Heat Stress induced Neuroinflammation and Aberration in Monoamine levels in Hypothalamus are associated with Temperature Dysregulation; Neuroscience, 2017, 358, 79-92. (Impact Factor: 3.277) (Citations: 61)
7. Malini Sharma, sarita nanda, Ritu Khanna, Pooja Khanna, Sumeet Goyal (2017) Quantification of carbon footprint and handprint in the college campus: a peek into the future. International Journal of Innovative research in science, engineering and technology, Vol 6, Issue 4, April
8. Nishant Ranjan , Medha Kapoor, Laxmi Prabha Singh T.P Baburaj, Shashi Bala Singh and Sarita Nanda (2016) An Insight into the Histological Changes in Rodent Brain in Response to graded Hyperthermia International Journal of Biotechnology and Biomedical Science.2(1);34-39: eISSN 2454-4582
9. Medha Kapoor, Nishant Ranjan Chauhan, B.N. Mishra, R.K. Khandal, Sarita Nanda, Shashi Bala Singh(2015) Structural Alterations in Spleen and Kidney in Response to Graded Heat Stress(2015) International Journal of Pharmacology Research. Vol 5(3);eISSN 2249-7641
10. Kapoor M, Chauhan NR, Mishra BN, Khandal RK, Nanda S, Singh SB (2015) Graded Hyperthermia and Kidney Function: A Comprehensive Evaluation (2015) International Journal of Phytopharmacology:Vol6(3); 152-155; eISSN 0975-9328

11. K. Jain, J. Sharma, M. Bhardawaj, P. Sharma, G. Madhyani, S. Rohtagi, D. Verma, Aarushi, Akanksha, Roopashi, H. Kaur, Shama, I. Jahan Vanshika, P. Loomba, Aarunita, Isha, P. Jain, N. R. Chauhan, L. Prabha, M. Kapoor, A. Goel, J. Taneja, A. Jain, T. P. Baburaj, S. Bala Singh, S. Nanda (2015) Biochemical Effects of Heat Stress and Acclimation, DU Journal of Undergraduate Research and Innovation DU Journal of Undergraduate Research and Innovation; Vol1(3);49-56;ISSN 2395-2334
12. Singh L B, Chauhan NR, Mishra BN, Khandal RK, Nanda S, Singh SB (2015) Biochemical evaluation of Hepatic Damage in Mammalian acute heat stress and heat stroke models International Journal of Pharmacy and Therapeutics. Vol6(3); 133-136; ISSN 2229-7456
13. Singh LP, Chauhan NR, Mishra BN, Khandal RK, Nanda S Singh SB(2015) Histological changes in mammalian liver and heart in response to graded hyperthermia print-ISSN 2248 – 9134 International Journal of Current Pharmaceutical & Clinical Research Vol 5,(3) pp. 184-88. e-ISSN 2248 – 9142 e-ISSN 2248 – 9142 (Citations: 5)
14. Anju Jain, Laxmi Prabha Singh, Medha Kapoor, Nishant Ranjan Chauhan and S. Nanda (2015) The biology of Thermoregulation in the animal kingdom J of Agroecology and Natural Resource management. Vol 2(3);226-229; ISSN 2394-0794
15. Dr Anju Jain, S. Nanda and Shashi Bala Singh(2014) Biospectrum of Heat Adaptations J of Agroecology and Natural Resource management. Vol 1(2);51-55;ISSN 2394-0794
16. Sarita Nanda, K. Muralidhar & S. K. Kar (2002) Thermostable alpha amylase conjugated antibodies as probes for immunodetection in ELISA(2002) J of Immunoassay and Immunochemistry. Vol 23, (3);327-345;ISSN 1532-4230 (Citations:3)
17. Sarita Nanda et al (1996) Development and Application of a Homologous Elisa for Buffalo Prolactin (1996) Buffalo Journal. Vol 3; 305-312; ISSN 0857-1557 (Citations: 5)

Book Publications:

1. Sophayo Mahongnao, Pooja Sharma and Sarita Nanda (2022). Conversion of waste materials into different by-products of economic value. Waste Management and Resource Recycling in the Developing World. Chapter 29, pg 665-695, Publisher Elsevier, 978-0-323-90463-6
2. Pooja Sharma, Sophayo Mahongnao, Sarita Nanda (2022) Microbial Degradation of Microplastics in Plastic and Microplastic in the Environment ed Arif Ahmad, Pardeep Singh, Dhanesh Tiwari Chap 12: pg 222-244: Publisher Wiley, 978-1-119-80078-1: <https://doi.org/10.1002/9781119800897>
3. Jyoti Taneja, Taruna Arora, Anju Jain, Chandra Manshukhani, Latika Bhalla, Sarita Nanda (2021) Study of Polycystic Ovary Syndrome (2021) in Highlights on Medicine and Medical Science Vol. 13 ed Dr. Glueppe Murdaca by B P international, PP 115-122

E Modules :

1. Anju Jain, KP Mishra, Sarita Nanda (2018) M01 Organisation and Classification of Neuron in E module: ePG Paathshala Zoology, P-06 Animal Physiology. <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>

2. Sarita Nanda, Varsha Baweja, Anju Jain(2018)M02 Neuronal Cytoskeleton in E module: ePG Paathshala Zoology, P-06 Animal Physiology
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>
3. Sarita Nanda, KP Mishra, Anju Jain (2018) M 06 Synapse and Neuromuscular Junction in E module:e PG Paathshala Zoology, P-06 Animal Physiology<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>
4. Sarita Nanda,Shashi Bala Singh, Anju Jain (2018) M07 Mechanism of neurotransmitter Release Junction in E module: ePG Paathshala Zoology, P-06 Animal Physiology<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=3>
5. Anju Jain, KP Mishra, Sarita Nanda, (2018) M09 Sequential Development of Neurons from Stem Cells in E module: ePG Paathshala Zoology, P-06 Animal Physiology,
<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=3>
6. Anju Jain, Shashi Bala Singh, Sarita Nanda (2018) M 13 Epilepsy, Parkinsons Disease, Alzheimers Disease. ePG Paathshala Zoology, P-06 Animal Physiology<https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>
7. Anju Jain, Sarita Nanda, Varsha Baweja (2018) M 25 Endocrine Disruptors. ePG Paathshala Zoology, P-06 Animal Physiology, <https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=35>

Dr Padmshree Mudgal

1. Mudgal, P., Gupta, R., Joshi, A., Prakash, C., Gupta, K., Sachdeva, R., & Joshi, N. (2023). Assessment of Anxiolytic Activity of Brahmi (*Bacopa monnieri*) in Zebrafish Model System. *Journal of Natural Remedies*, 23(2), 661–670. <https://doi.org/10.18311/jnr/2023/31362>
2. Mudgal P., Bhasin C., Joshi A., Gupta R. (2021) Zebrafish: A Versatile Learning Tool. *Resonance*. Nov 2021: 26(11): 1483-1601.
<https://www.ias.ac.in/article/fulltext/reso/026/11/1499-1521>
3. Wardhan R, Mudgal P. Understanding the predisposing risk factors of young suicide. *Int J Res Med Sci* 2020; 8: xxx-xx. DOI: <https://dx.doi.org/10.18203/2320-6012.ijrms20204985>
4. Mudgal P, Wardhan R. The increased risk of elderly population in India in COVID-19 pandemic. *Int J Health Sci Res*. 2020; 10(10):166-175.
5. Gupta R, Ranjan S, Yadav A, Verma B, Malhotra K, Madan M, Chopra O, Jain S, Gupta S, Joshi A, Bhasin C, Mudgal P. (2019) Toxic Effects of Food Colorants Erythrosine and Tartrazine on Zebrafish Embryo Development. *Curr. Res Nutr. Food Sci* 2019; 7(3). <https://bit.ly/2OFNYLM>
6. Wardhan R., and Mudgal P. (2017) *Textbook of Membrane Biology*. Springer Singapore. DOI: 10.1007/978-981-10-7101-, eBook ISBN(E): 978-981-10-7101-, Hardcover ISBN (P): 978-981-10-7100-3
7. Khetrpal M., Mudgal P., Lata V. (2017) Bio-detergent from brassica juncea (mustard) seed oil and study of its quality parameters & environmental indexes. In. *J. App. Nat. Sci. (IJANS)*, ISSN (P): 2319-4014; ISSN (E): 2319-4022, 6(3), 35 – 40

8. Bhasin C., Mudgal P., et.al. 2016. Zebrafish Early Stage Developmental Defects as Indicator of Site Specific Water Composition of River Yamuna. DU Journal of Undergraduate Research and Innovation. Volume 2, Issue 1pp 40 - 45, 2016 <http://journals.du.ac.in/ugresearch>
9. Khetrpal M., Mudgal P. et al. 2016. One Pot Synthesis of Green Detergents from BioWastes. DU Journal of Undergraduate Research and Innovation Volume 2, Issue 1pp 92 - 98, 20
10. Comparative study of detergents in India-A step towards more sustainable laundry. M. Khetrpal, Mudgal P., Lata, Sagrika, Ayushi, Vishu, Vaishali, Ushma, Deepika and Charu. DU Journal of Undergraduate Research and Innovation. Feb. 2015 Vol. I, Issue 1, 163-172 <http://journals.du.ac.in/ugresearch>
11. M. Khetrpal, Mudgal P., Lata, Ayushi, Deepika and Charu. Synthesis of detergents from Rice Bran oil and study of its quality parameters. International Journal of General Engineering and Technology (IJGET). Vol. 3: Issue 6, Nov 20
12. Casein Kinase II activity of Buffalo sperm chromatin. Mudgal P., Anand S. R. Mol. Reprod Dev.1998 50: 178-184. [https://doi.org/10.1002/\(SICI\)1098-2795\(199806\)50:2<178::AID-MRD8>3.0.CO;2-H](https://doi.org/10.1002/(SICI)1098-2795(199806)50:2<178::AID-MRD8>3.0.CO;2-H)
13. Histone Kinase activity of Buffalo sperm chromatin. Mudgal P., Varshney GC, Anand SR Arch. Androl. 1997, 38:191-199. DOI: 10.3109/01485019708994877

Dr Anita Garg Mangla

1. Sangita Mukhopadhyay, Madhuchhanda Mohanty, Anita Mangla, Anna George, Vineeta Bal, Satyajit Rath, and Balachandran Ravindran (2002). Macrophage effector functions controlled by bruton's tyrosine kinase are more crucial than the cytokine balance of T cell response for microfilarial clearance. The Journal of immunology, 168: 2914-2921.
2. Anita Mangla, Anupriya Khare, Varanasi Vineeth, Nagesh Narayan Panday, Asok Mukhopadhyay, Balachandran Ravindran, Vineeta Bal, Anna George, and Satyajit Rath (2004). Pleiotropic consequences of bruton tyrosine kinase deficiency in myeloid lineages lead to poor inflammatory responses. Blood, 104(4): 1191-1197.
3. Bhasin C., Mudgal P., Joshi A, Mangla AG etal (2016) Zebrafish early stage development defects as indicator of site specific water composition of river Yamuna. DU Journal of Undergraduate Research and Innovation. Volume 2, Issue 1pp 40 - 45, 2016.
4. Vaibhav Chand, Deeptashree Nandi, Anita Garg Mangla, Puneet Sharma, Alo Nag (2016). Tale of a multi-faceted coactivator, hADA3: from embryogenesis to cancer and beyond. Open Biology, 7 september.
5. Anita Garg Mangla, Neeru Dhamija, Urvashi Gupta, Meenal Dhall (2019) Lifestyle trends and obesity among college going girls of Delhi. Health 11, 201-210. ISSN: Print: 1949-4998 ; Online: 1949-5005, <http://doi.org/10.4236/health.2019.112018>
6. Aakriti Tiwari, Priyansha Vashisht, Yogeeta Gupta, Anita Garg Mangla and Neeru Dhamija (2019) Gut microbiota and the diseases. International Journal of Innovative Studies in Medical Sciences, 3(2), 7-10; ISSN : 2457-063X

7. Anita Garg Mangla, Neeru Dhamija, Urvashi Gupta, Meenal Dhall (2019) Familial Background as a hidden cause for Obesity among College Going Girls. Journal of Biosciences and Medicines, 7, 1-13. ISSN : Print: 2327-5081 Online: 2327-509X, <http://doi.org/10.4236/jbm.2019.7400>
8. Gupta, U., Verma, B., Srivastava, A., Ridhi, Nidhi, Verma, S., Satapathy, A., Rasmila, K.K., Shanavas, F., Yadav, H. Basu, S., Malhotra, K., Tonk, V., Madaan, M., Debnath, M., Upadhyay, K., Kumari, M., Banerjee, S., Mehta, A., Gupta, S., Jain, S., Bajaj, A., Yadav, A., Ojasvi, Dhall, M., Dhamija, N. and Mangla, A.G. (2019) Body age as an undeniable adiposity and obesity indicator. International Journal of Current Innovations in advanced research, 2(8) 1- 13. ISSN: 2636-6282
9. Anita Garg Mangla, Neeru Dhamija, Urvashi Gupta, Meenal Dhall (2020) Anthropometric Markers as a Paradigm for Obesity Risk Assessment. Journal of Biosciences and Medicines, 8 (2) ; ISSN : Print: 2327-5081 Online: 2327- 509X, DOI:<http://doi.org/10.4236/jbm.2020.8200>
10. Anita Garg Mangla, Neeru Dhamija, Priti Malhotra, Tanya Kalra, Parthvi Mahendru, Shreya Kandpal and Divyangi Dubey (2020) India seems to be better placed in fighting against COVID-19: A Review. International journal of advanced research, 8(06), 711-717. ISSN: 2320-5407 ; <http://dx.doi.org/10.21474/IJAR01/11150>
11. Anita Garg Mangla, Shreya Kandpal, Parthvi Mahendru, Neeru Dhamija (2021) India seems to out perform in handling covid-19 pandemic. International Journal of Research in Medical Sciences, Apr; 9(4): 1228-1233, ISSN:Print;2320-6071;Online:2320-6012
12. Neeru Dhamija, Tanya Kalra, Divyangi Dubey, Priti Malhotra and Anita Garg Mangla (2021) Mutual Impact of COVID 19 and Pollution. Pollution Research, 40 (4): 1346-1353
13. Urvashi Gupta, Nilupher Feroz, Kshetrimayum, Surmala Devi, Meenal Dhall, Neeru Dhamija and Anita Garg Mangla (2023) Digital Screen Time as a Characteristic of Academic Performance among School-Going Children. Journal of the Anthropological Survey of India, 29th June DOI:10.1177/2277436X231152977

Dr Radhika Gupta

1. Mudgal, P., **Gupta, R.**, Joshi, A., Prakash, C., Gupta, K., Sachdeva, R., & Joshi, N. (2023). Assessment of Anxiolytic Activity of Brahmi (*Bacopa monnieri*) in Zebrafish Model System. Journal of Natural Remedies, 23(2), 661–670. <https://doi.org/10.18311/jnr/2023/31362>
2. Mudgal P, Bhasin C, Joshi A and **Gupta R** Zebrafish. A versatile learning tool. Resonance 2021 Nov,(11) 1499-1521
3. Lunge A, **Gupta R**, Choudhary E, Agarwal N. The unfoldase ClpC1 of Mycobacterium tuberculosis regulates the expression of a distinct subset of proteins having intrinsically disordered termini.. J Biol Chem. 2020 Jul 10;295(28):9455-9473
4. Babbar S, Manisha G, Dohare N, Goel A, **Gupta R** and Nanda S. Pollution controlling ability of plant species growing on college campus in Delhi, India. Poll Res. 38 (November Suppl. Issue) : S23-S29 (2019)

5. Gupta M, Babbar S, Goel A, Gupta R, Dohare N and S. Pollution Controlling Ability of Indigenous Plant Species Growing Around Drain in Delhi. *Poll Res.* 38 (November Suppl. Issue) : S29-S35 (2019)
6. Gupta R, Ranjan S, Yadav A, Verma B, Malhotra K, Madan M, Chopra O, Jain S, Gupta S, Joshi A, Bhasin C, Mudgal P. Toxic Effects of Food Colorants Erythrosine and Tartrazine on Zebrafish Embryo Development. *Curr Res Nutr Food Sci* 2019; 7(3).
7. Srivastava S, Chaudhary S, Thukral L, Shi C, Gupta RD, Gupta R, Priyadarshan K, Vats A, Haque AS, Sankaranarayanan R, Natarajan VT, Sharma R, Aldrich CC and Gokhale RS. (2015) Unsaturated lipid assimilation by mycobacteria requires auxiliary cis-trans enoyl CoA isomerase. *Chem Biol.* 17;22(12):1577-87. 5.3
8. Shukla J, Gupta R, Thakur KG, Gokhale R and Gopal B. (2014) Structural basis for the redox sensitivity of the Mycobacterium tuberculosis SigK-RskA σ -anti- σ complex. *Acta Crystallogr D Biol Crystallogr.* 70(Pt 4):1026-36. 2.5
9. Erdemli SB*, Gupta R*, Lamichhane G, Bishai WR, Amzel LM and Bianchet MA. (2012) Targeting the cell wall of Mycobacterium tuberculosis: structure and mechanism of L,D-transpeptidase 2. *Structure* 5;20(12):2103-15. *Equal contribution. 5.6
10. Maiga M, Agarwal N, Ammerman NC, Gupta R, Guo H, Maiga MC, Lun S and Bishai WR. (2012) Successful shortening of tuberculosis treatment using adjuvant host-directed therapy with FDA-approved phosphodiesterase inhibitors. *PLoS One* 2012;7(2):e30749.3.23
11. Converse PJ, Eisenach KD, Theus SA, Nuermberger EL, Tyagi S, Ly LH, Geiman DE, Guo H, Nolan ST, Akar NC, Klinkenberg LG, Gupta R, Lun S, Karakousis PC, Lamichhane G, McMurray DN, Grosset JH and Bishai WR. (2010) The impact of mouse passaging of Mycobacterium tuberculosis strains prior to virulence testing in the mouse and guinea pig aerosol models. *PLoS One* 5(4):e10289. 3.23
12. Gupta R, Lavollay M, Mainardi JL, Arthur M, Bishai WR and Lamichhane G. (2010) The Mycobacterium tuberculosis gene, ldtMt2, encodes a non-classical transpeptidase required for virulence and resistance to amoxicillin. *Nature Medicine* (4):466-9. 30.6
13. Khare G, Gupta V, Gupta R, Gupta R, Bhat R and Tyagi AK. (2009) Dissecting the role of critical residues and substrate preference of a fatty acyl-CoA synthetase (FadD13) of Mycobacterium tuberculosis. *PLoS ONE*;4(12):e8387. 3.23
14. Agarwal N, Lamichhane G, Gupta R, Nolan S and Bishai WR. (2009) Cyclic AMP intoxication of macrophages by a Mycobacterium tuberculosis adenylate cyclase. *Nature* 460(7251):98-102. 38
15. Arora P, Goyal A, Natarajan VT, Rajakumara E, Verma P, Gupta R, Yousuf M, Trivedi OA, Mohanty D, Tyagi A, Sankaranarayanan R and Gokhale RS. (2009) Mechanistic and functional insights into fatty acid activation in Mycobacterium tuberculosis. *Nature Chemical Biology* 5(3):166-73. 12.7
16. Alahari A, Alibaud L, Trivelli X, Gupta R, Lamichhane G, Reynolds RC, Bishai WR, Guerardel Y and Kremer L. (2009) Mycolic acid methyltransferase, MmaA4, is necessary for anti-tubercular activity of thiacetazone in Mycobacterium tuberculosis. *Molecular Microbiology* 71(5):1263-77. 5.06
17. Singh A, Gupta R, Vishwakarma RA, Narayanan PR, Parmasivan CN, Ramanathan VD and Tyagi AK. (2005) Requirement of mymA operon for appropriate cell wall structure and persistence of M. tuberculosis in the spleen of guinea pigs. *Journal of Bacteriology* 187(12):4173-86. 2.6

18. Singh R, Rao V, Shakila H, **Gupta R**, Aparna Khera, Dhar N, Singh A, Koul A, Singh Y, Naseema M, Narayanan PR, Paramasivan CN, Ramanathan VD and Tyagi AK. (2003) Disruption of *mptpB* impairs the ability of *Mycobacterium tuberculosis* to survive in guinea pigs. *Molecular Microbiology* 50 (3): 751 – 762. 5.06

Book chapters

1. Ajitesh Lunge, Eira Choudhary, Rishabh Sharma, **Radhika Gupta** and Nisheeth Agarwal. *Genome Engineering via CRISPR-Cas9 Systems* 1st edition Elsevier to be published in January, 2020. Chapter 17: Functional understanding of CRISPR interference: its advantages and limitations for gene silencing in bacteria
2. Agarwal N, **Gupta R**. History, evolution and classification of CRISPR-Cas associated systems. *Prog Mol Biol Transl Sci.* 2021;179:11-76. doi: 10.1016/bs.pmbts.2020.12.012. Epub 2021 Feb 9. PMID: 33785174.

Dr Narendra Kumar

1. Narendra Kumar, Satyanarayana Rachagani, Gopalakrishnan Natarajan, Alexandra Crook, Thiyagarajan Gopal, Vinothkumar Rajamanickam, Jyoti B Kaushal, Sirpu N Nagabhishek, Robert Powers, Surinder K Batra, Viswanathan Saraswathi “Histidine enhances the anticancer effect of gemcitabine against pancreatic cancer via disruption of amino acid homeostasis and oxidant/antioxidant balance.” *Cancers (Basel)*. 2023 May 3;15(9):2593. doi: 10.3390/cancers15092593. ISSN- 20726694 (Impact Factor 6.58)
2. Samuel D. J, Lindsey A. K, Narendra Kumar, Omalla A. Olwenyi, Michellie Thurman, Smriti Mehra, Mahesh Mohan and Siddappa N. Byrareddy “Early treatment with anti-a4b7 antibody facilitates increased gut macrophage maturity in SIV-infected rhesus macaques” *Frontiers in Immunology*, 2022 Nov 1;13:1001727. doi: 10.3389/fimmu.2022.1001727. eISSN-1664-3224 (Impact factor 8.79)
3. Narendra Kumar, Arpan Acharya, Howard E. Gendelman, Siddappa N. Byrareddy “The 2022 Outbreak and the Pathobiology of the Monkeypox Virus” *Journal of Autoimmunity*, Volume 131, July 2022, 102855, <https://doi.org/10.1016/j.jaut.2022.102855>, ISSN- 0896-8411 (Impact Factor-14.51)
4. Viswanathan Saraswathi, Narendra Kumar, Weilun Ai, Thiyagarajan Gopal, Saumya Bhatt, Edward N. Harris, Geoffrey A. Talmon and Cyrus V. Desouza “Myristic Acid Supplementation Aggravates High Fat Diet-Induced Adipose Inflammation and Systemic Insulin Resistance in Mice” *Biomolecules*, May 24, 2022, 12(6), 739, <https://doi.org/10.3390/biom12060739>, ISSN: 2218-273X (Impact Factor-6.06)
5. Viswanathan Saraswathi, Narendra Kumar, Thiyagarajan Gopal, Saumya Bhatt, Weilun Ai, Carmen Ma, Geoffrey A. Talmon and Cyrus Desouza “Lauric Acid versus Palmitic Acid: Effects on Adipose Tissue Inflammation, Insulin Resistance and Non-Alcoholic Fatty Liver Disease in Obesity” *Biology-MDPI* 2020, 9, 346; doi:10.3390/biology9110346, 22 October 2020 ISSN 2079-7737; CODEN: BBSIBX (Impact Factor-5.16)

6. Thiagarajan Gopal, Narendra Kumar, Curtis Perriotte-Olson, Carol A Casey , Terrence M Donohue Jr, Edward Noel Harris, Geoffrey Talmon, Alexander V Kabanov and Viswanathan Saraswathi “ Nano formulated SOD1 Ameliorates the Combined NASH and Alcohol-Associated Liver Disease Partly via Regulating Cyp2E1 Expression in Adipose Tissue and Liver” American Journal of Physiology-Gastrointestinal and Liver Physiology, 13 JAN 2020
<https://doi.org/10.1152/ajpgi.00217.2019>, ISSN- 01931857, 15221547 (Impact Factor-4.8)
7. Narendra Kumar, Sanjeev Sinha, Rama Chaudhry, S K Sharma, V. Sreenivas Sanjay Ranjan, Meera Ekka, Hafeez Ahmad, J C Samantaray “Clostridium difficile infections in HIV-positive diarrheal patients of North India” The National Medical Journal of India, VOL. 27, NO. 3, 2014, ISSN-0970- 258X. (Impact Factor-.5)
8. Asha Anandaiah, Sanjeev Sinha, Medhavi Bole, Surendra K. Sharma, Narendra Kumar, Kalpana Luthra, Xin Li, Xuiqin Zhou, Benjamin Nelson, Souvenir D.Tachado, Naimish R. Patel and Henry Koziel, “Vitamin D rescues impaired Mycobacterium tuberculosis-mediated TNF release in HIV+ macrophages through enhanced TLR signaling pathway” Infection and Immunity (Infect Immun. 2013 Jan;81(1):2-10), ISSN-0019-9567 (Impact Factor-3.69)
9. Sinha S, Shekhar RC, Ahmad H, Kumar N, Samantaray JC, Sreenivas V, Khan NH, Mitsuyasu RT.“Prevalence of HIV drug resistance mutation in the Northern Indian population after failure of the first line antiretroviral therapy” Current HIV research, 2012 Sep 1;10(6):532-8, ISSN: 1570-162X (print); 1873-4251 (web) (Impact Factor-2.30)
10. Sinha S, Shekhar R C, Singh G, Shah N, Ahmad H, Kumar N, Sharma S K, Samantaray J C, Ranjan S. Sreenivas V, Mitsuyasu R L “Early versus delayed initiation of antiretroviral therapy for Indian HIV-infected individuals with tuberculosis on antituberculosis treatment” BMC Infectious Diseases, 2012 Jul 31;12(1):168, ISSN: 1471-2334 (Impact Factor-3.68)
11. Sinha S, Ahmad H, Shekhar RC, Kumar N, Dar L, Samantaray JC, Sharma SK, Bhargava A, Pandey RM, Mitsuyasu RL, Fahey JL. “Prevalence of HIV drug resistance mutations in HIV type 1 isolates in antiretroviral therapy naïve population from northern India” AIDS Research and Treatment, 2012; 2012:905823. Epub 2012 Mar 15., ISSN: 2090-1259 (Impact Factor-2.1)
12. Sinha S, Dhooria S, Kumar S, Shah N, Velpandian T, Ravi A, Kumar N, Ahmad H, Bhargwa A, Chug K, Bumma N, Chandrashekar R, Ekka M, Sreenivas V, Sharma SK, Samantaray J, Mitsuyasu R. “The antiretroviral efficacy of highly active antiretroviral therapy and plasma nevirapine concentrations in HIV-TB co-infected Indian patients receiving rifampicin based antituberculosis treatment” AIDS Research and Therapy, 2011, Nov 2;8(1):41., ISSN: 1742-6405 (Impact Factor2.85)

Dr Neeru Dhamija

1. Anita Garg Mangla, **Neeru Dhamija**, Urvashi Gupta, Meenal Dhall (2019) Lifestyle trends and obesity among college going girls of Delhi. **Health** 11, 201-210. ISSN: Print: 1949-4998; Online: 1949-5005, <http://doi.org/10.4236/health.2019.112018>
2. Aakriti Tiwari, Priyansha Vashisht, Yogeeta Gupta, Anita Garg Mangla and **Neeru Dhamija** (2019) Gut microbiota and the diseases. **International Journal of Innovative Studies in**

Medical Sciences, 3(2), 7-10; ISSN: 2457-063X

3. Anita Garg Mangla, **Neeru Dhamija**, Urvashi Gupta, Meenal Dhall (2019) Familial Background as a hidden cause for Obesity among College Going Girls. **Journal of Biosciences and Medicines**, 7, 1-13. ISSN : Print: 2327-5081 Online: 2327-509X, <http://doi.org/10.4236/jbm.2019.74001>
4. Gupta, U., Verma, B., Srivastava, A., Ridhi, Nidhi, Verma, S., Satapathy, A., Rasmila, K.K., Shanavas, F., Yadav, H., Basu, S., Malhotra, K., Tonk, V., Madaan, M., Debnath, M., Upadhyay, K., Kumari, M., Banerjee, S., Mehta, A., Gupta, S., Jain, S., Bajaj, A., Yadav, A., Ojasvi, Dhall, M., **Dhamija, N.** and Mangla, A.G. (2019) Body age as an undeniable adiposity and obesity indicator. **International Journal of Current Innovations in advanced research**, 2(8) 1- 13. ISSN: 2636-6282
5. Anita Garg Mangla, **Neeru Dhamija**, Urvashi Gupta, Meenal Dhall (2020) Anthropometric Markers as a Paradigm for Obesity Risk Assessment. **Journal of Biosciences and Medicines**, 8 (2) ; ISSN : Print: 2327-5081 Online: 2327-509X, DOI:<http://doi.org/10.4236/jbm.2020.82001>
6. Anita Garg Mangla, **Neeru Dhamija**, Priti Malhotra, Tanya Kalra, Parthvi Mahendru, Shreya Kandpal and Divyangi Dubey (2020) India seems to be better placed in fighting against COVID-19: A Review. **International journal of advanced research**, 8(06), 711-717. ISSN: 2320-5407 ; <http://dx.doi.org/10.21474/IJAR01/11150>
7. Anita Garg Mangla, Shreya Kandpal, Parthvi Mahendru, **Neeru Dhamija** (2021) India seems to out perform in handling covid-19 pandemic. **International Journal of Research in Medical Sciences**, Apr; 9(4): 1228-1233, ISSN:Print;2320-6071;Online:2320-6012
8. **Neeru Dhamija**, Tanya Kalra, Divyangi Dubey, Priti Malhotra and Anita Garg Mangla (2021) Mutual Impact of COVID 19 and Pollution. **Pollution Research**, 40 (4): 1346-1353
9. **Coeditor and Coauthor** in Book titled Rediscovering Genetics: a laboratory manual. (1st ed.) New Delhi IK International publishing house, 2016.
10. **Dhamija, N.**, Rawat, P., and Mitra, D. (2012). Epigenetic regulation of HIV-1 persistence and Evolving Strategies for Virus Eradication. *Subcell. Biochem.*, 61, 479-505.
11. **Dhamija, N.** and Joshi, S. (2015) Rediscovering genetics with Drosophila. *Resonance*, 20, 177-183.
12. **Dhamija, N.**, Choudhary, D., Ladha, J., Pillai, B., and Mitra, D. (2015). Tat predominantly associates with host promoter elements in HIV-1-infected T-cells-regulatory basis of transcriptional repression of c-Rel. *FEBS journal*, 282, 595-610.
13. Kumar, M., Rawat, P., Khan, S.Z., **Dhamija, N.**, Chaudhary, P., Ravi, D.S., and Mitra, D. (2011). Reciprocal regulation of human immunodeficiency virus-1 gene expression and replication by heat shock proteins 40 and 70. *J. Mol. Biol.*, 410, 944-958.

Dr Anita Goel

1. Babbar S, Gupta M, Dohare N, **Goel A**, Gupta R, Nanda S. Pollution controlling ability of plant species growing on college campus in Delhi. *India Poll Res.* 38 (November Suppl. Issue) : S23-S29 (2019)
2. Gupta M, Babbar S, Dohare N, **Goel A**, Gupta R, Nanda S. Pollution controlling ability of indigenous plant species growing around drain in Delhi. *Poll Res.* 38 (November Suppl. Issue) : S29-S35 (2019)
3. Jain A, Sharma J Bhardawaj M, **Goel A** et al., Biochemical effects of heat stress and acclimation. *DU journal of Undergraduate Research and Innovation.* 2015; volume 1, issue 3: 49-56.

4. **Goel A**, Chhabra R, Ahmad S, Prasad AK, Parmar VS, Ghosh B, Saini N. DAMTC regulates cytoskeletal reorganization and cell motility in human lung adenocarcinoma cell line: an integrated proteomics and transcriptomics approach. *Cell Death and Disease*. 2012; 3, e402; doi:10.1038
5. **Goel A**, Prasad AK, Parmar VS, Ghosh B, Saini N. Apoptogenic effect of 7, 8-Diacetoxy-4-methylcoumarin and 7, 8-Diacetoxy-4-methylthiocoumarin in human lung adenocarcinoma cell line: Role of NF- κ B, Akt, ROS and MAP kinase pathway. *Chem Biol Interact*. 2009; 179(2-3):363-74.
6. **Goel A**, Prasad AK, Parmar VS, Ghosh B, Saini N. 7,8-Dihydroxy-4-methylcoumarin induces apoptosis of human lung adenocarcinoma by ROS-independent mitochondrial pathway through inhibition of ERK/MAPK signaling. *FEBS Lett* 2007; 581(13):2447-2454.
7. Patnaik S, Aggarwal A, Nimesh S, **Goel A**, Ganguli M, Saini N, Singh Y and Gupta KC. PEI-alginate nanocomposites as efficient in vitro gene transfection agents. *Journal of Controlled Release* 2006; 114(3): 398-409.

Dr Neeraj Dohare

1. Rajan Patel, Birajpal Singh, Anurag Sharma, Juhi Saraswat, Neeraj Dohare, Mehraj ud din Parray, Md Abrar Siddiquee, Amer M Alanazi, Azmat Ali Khan. Interaction and esterase activity of albumin serums with orphenadrine: A spectroscopic and computational approach. *Journal of Molecular Structure*. 2021;1239: 130522.
2. Neeraj Dohare, Md Abrar Siddiquee, Mehrajud din Parray, Amit Kumar, Rajan Patel. Esterase activity and interaction of human hemoglobin with diclofenac sodium: A spectroscopic and molecular docking study. *Journal of Molecular Recognition*. 2020;33(8): e2841.
3. Neeraj Dohare, Mehrajud din Parray, Md. Abrar Siddiquee, Abbul Bashar Khan, Khalid Ahmed Alzahrani, Abdulmohsen Ali Alshehri, Maqsood Ahmad Malik, Rajan Patel. Effect of adiphene hydrochloride on the structure of bovine serum albumin: Spectroscopic and docking study. *Journal of Molecular Structure*. 2019; 1201:127168.
4. Manasa Kongot, Neeraj Dohare, Dinesh S Reddy, Neha Pereira, Rajan Patel, Mahesh Subramanian, Amit Kumar. In vitro apoptosis-induction, antiproliferative and BSA binding studies of aoxido vanadium (V) complex. *Journal of Trace Elements in Medicine and Biology*. 2019; 51:176-190.
5. Rajan Patel, Neha Maurya, Mehraj-ud-din Parray, Nida Farooq, Abrar Siddique, Kanak Lata Verma, Neeraj Dohare. Esterase activity and conformational changes of bovine serum albumin toward interaction with mephedrone: Spectroscopic and computational studies. *Journal of Molecular Recognition*. 2018;31(11): e2734.
6. Manasa Kongot, Neeraj Dohare, Vishal Singh, Dinesh S Reddy, Nitin Kumar Singhal, Rajan Patel, Amit Kumar. A novel biocompatible NiIII tethered moiety as a glucose uptake agent and a hit against methicillin-resistant *Staphylococcus aureus*. *European Journal of Pharmaceutical Sciences*. 2018; 123:335-349.

7. Mehraj-ud-din Parray, Muzaffar Ul Hassan Mir, Neeraj Dohare, Neha Maurya, Abbul Bashar Khan, Mahendra S Borse, Rajan Patel. Effect of cationic gemini surfactant and its monomeric counterpart on the conformational stability and esterase activity of human serum albumin. *Journal of Molecular Liquids*. 2018; 260:65-77.
8. Manasa Kongot, Neha Maurya, Neeraj Dohare, Mehraj-ud-din Parray, Jitendra Kumar Maurya, Amit Kumar, Rajan Patel. Enthalpy-driven interaction between dihydropyrimidine compound and bovine serum albumin: a spectroscopic and computational approach. *Journal of Biomolecular Structure and Dynamics*. 2018;36(5):1161-1170.
9. Jitendra Kumar Maurya, Abbul Bashar Khan, Neeraj Dohare, Anwar Ali, Amit Kumar, Rajan Patel. Effect of aromatic amino acids on the surface properties of 1-dodecyl-3-(4-(3-dodecylimidazolidin-1-yl) butyl) imidazolidine bromide gemini surfactant. *Journal of Dispersion Science and Technology*. 2018;39(2):174-180.
10. Neeraj Dohare, Abbul Bashar Khan, Neha Maurya, Sonu Thakur, Fareeda Athar, Prashant Singh, Rajan Patel. An insight into the binding of aceclofenac with bovine serum albumin at physiological condition: A spectroscopic and computational approach. *Journal of Biomolecular Structure and Dynamics*. 2018;36(2):398-406.
11. Abbul Bashar Khan, Farooq Ahmed Wani, Neeraj Dohare, Mehraj ud din Parray, Prashant Singh, Rajan Patel. Ionic liquid influenced synergistic interaction between amitriptyline hydrochloride and cetyltrimethylammonium bromide. *Journal of Chemical & Engineering Data*. 2017;62(10):3064-3070.
12. Meena Kumari, Neeraj Dohare, Neha Maurya, Ravins Dohare, Rajan Patel. Effect of 1-methyl-3-octyleimidazolium chloride on the stability and activity of lysozyme: a spectroscopic and molecular dynamics studies. *Journal of Biomolecular structure and dynamics*. 2017;35(9):2016-2030.
13. Taruna Sharma, Neeraj Dohare, Meena Kumari, Upendra Kumar Singh, Abbul Bashar Khan, Mahendra S Borse, Rajan Patel. Comparative effect of cationic gemini surfactant and its monomeric counterpart on the conformational stability and activity of lysozyme. *RSC Advances*. 2017;7(27):16763-16776.
14. Jitendra Kumar Maurya, Muzaffar Ul Hassan Mir, Neha Maurya, Neeraj Dohare, Anwar Ali, Rajan Patel. A spectroscopic and molecular dynamic approach on the interaction between ionic liquid type gemini surfactant and human serum albumin. *Journal of Biomolecular Structure and Dynamics*. 2016;34(10):2130-2145.
15. Neeraj Dohare, Abbul Bashar Khan, Fareeda Athar, Sonu Chand Thakur, Rajan Patel. Urea-induced binding between diclofenac sodium and bovine serum albumin: a spectroscopic insight. *Luminescence*. 2016;31(4):945-951.
16. Rajan Patel, Neeraj Dohare, Abbul Bashar Khan. Interfacial and wetting behavior of cationic, anionic and nonionic surfactants in the absence and presence of lysozyme. *Chemistry & Chemical Technology*. 2016; 10(2): 179-185.
17. Rajan Patel, Meena Kumari, Neeraj Doahre, Abbul Bashar Khan, Prashant Singh, Maroof Ali, Amit Kumar. Interaction between pyrrolidinium based ionic liquid and bovine serum albumin: a

spectroscopic and molecular docking insight. *Biochemistry Analytical Biochemistry*. 2016;5(265):2161-1009.

18. Rajan Patel, Abbul Bashar Khan, Neeraj Dohare, Mohd. Maroof Ali, Hament Kumar Rajor. Mixed micellization and interfacial properties of ionic liquid-type imidazolium gemini surfactant with amphiphilic drug amitriptyline hydrochloride and its thermodynamics. *Journal of Surfactants and Detergents*. 2015;18(5):719-28.
19. Upendra Kumar Singh, Neeraj Dohare, Prabhash Mishra, Prashant Singh, Himadri B Bohidar, Rajan Patel. Effect of pyrrolidinium based ionic liquid on the channel form of gramicidin in lipid vesicles. *Journal of Photochemistry and Photobiology B: Biology*. 2015; 149:1-8.
20. Jitendra Kumar Maurya, Muzaffar Ul Hassan Mir, Upendra Kumar Singh, Neha Maurya, Neeraj Dohare, Seema Patel, Anwar Ali, Rajan Patel. Molecular investigation of the interaction between ionic liquid type gemini surfactant and lysozyme: A spectroscopic and computational approach. *Biopolymers*. 2015;103(7):406-415.
21. Abbul Bashar Khan, Neeraj Dohare, Rajan Patel Mixed Micellization Study of Adiphenine hydrochloride with 1-Decyl-3-methylimidazolium chloride. *World Academy of Science, Engineering and Technology, International Journal of Chemical, Molecular, Nuclear, Materials and Metallurgical Engineering*. 2015;9(3):490-494.
22. Abbul Bashar Khan, Maroof Ali, Neeraj Dohare, Prashant Singh, Rajan Patel. Micellization behavior of the amphiphilic drug promethazine hydrochloride with 1-decyl-3-methylimidazolium chloride and its thermodynamic characteristics. *Journal of Molecular Liquids*. 2014; 198:341-346.