



Dr. Gauri Misra **Scientist-I**

Address: A-32, Institutional Area, National Institute of
Biologicals (Ministry of Health and Family Welfare)
Sector-62, Noida

Experience

2024-May-present	Scientist-I and Head (Molecular Diagnostic Lab & COVID-19 Kit Testing Laboratory, Sample Receipt and Report Dispatch Unit) <i>National Institute of Biologicals, Noida, India</i>
2019-May – 2024-May	Scientist-II and Head (Molecular Diagnostic Lab & COVID-19 Kit Testing Laboratory, Sample Receipt and Report Dispatch Unit) <i>National Institute of Biologicals, Noida, India</i> • In present Institute worked as Head of WHO-Collaborating Centre and NABL accredited Immunodiagnostic kits and Molecular Diagnostic lab. • In addition, worked as Head of Enzymes and Hormones Laboratory, administrative and scientific responsibilities provide the opportunity to contribute towards fulfilling Government's mandate of "Healthy India." • Journey that has given tremendous experience in various domains of research, regulation and administration. • Notified as Government Analyst by Ministry of Health & Family Welfare, Govt. of India for testing Molecular Diagnostic Kits vide Gazette Notification no. CG-DL-E-30032025-262164, S.O. 203 (E) Dated 27.03.2025. • Notified as Government Analyst by Ministry of Health & Family Welfare, Govt. of India for four Covid-19 Kits viz. RT-PCR Kits for Diagnosis of Covid-19, Ribonucleic acid (RNA) Extraction Kits for Diagnosis of Covid-19, Viral Transport Medium (VTM) for Diagnosis of Covid-19 and RT-LAMP Kit for diagnosis of Covid-19 vide Gazette Notification no. CG-DL-E-17052023-245902, S.O. 2191(E) Dated 15.05.2023.
2012-Oct- 2019-May	Assistant Professor <i>Amity University, Noida, India</i> • Since 29 Oct. 2012 until 01 May 2019.
2011-Sep - 2012-Oct	Assistant Professor <i>HYGIA Institute of Pharmaceutical Education and Research, Lucknow, Uttar Pradesh</i>
2009-Oct- 2010-Feb	Research Scientist <i>Biotech Park, Lucknow, India</i> • Since 01 Oct. 2009 until 01 March 2010

Education

2009-Dec

Ph.D.: Structural Biology

Central Drug Research Institute (CDRI), Lucknow – Lucknow affiliated to JNU, New Delhi

Structural and functional characterization of proteins involved in transit peptide pathway proteins from *P. falciparum*. This was the first report that focused on the biophysical characterization of the individual domains of PfHsp70-1 in the protein's function and stability with implications for cytoprotection of the parasite. The results supported the strategy of disrupting the interactions of the C-terminal tail of the protein for the development of novel antimalarials. It also established that the first evidence for functional interactions between the PfHsp70-1 and *P. falciparum* Hsp40 (Pfj1). These research efforts in the field of malaria align with the national mission of “**Healthy India**” The doctoral research received global recognition and was awarded the **Eli-Lilly Asia Outstanding Thesis Award, in 2009** (first prize).

2002-Dec

M.Sc.: Biochemistry

Dr. B.R.A. University -Agra

Project work carried out at the National Jalma Institute for Leprosy & Other Mycobacterial Diseases (ICMR), Agra. Topper of the batch.

2000-Dec

B.Ed.

Dr. B.R.A. University -Agra

Science as a teaching subject. Gold medalist

1999-Dec

B.Sc.: Science

Dr. B.R.A. University –Agra

2010-Mar - 2011-July

Postdoctoral

CHUL Research Centre - Canada

Structural, functional and cellular studies of proteins involved in the growth and proliferation of breast cancer, specifically the role of nuclear androgen receptors.

Accomplishments

Honors and Awards

2024

- Selected for ICMR-DHR Short-term International fellowship for Senior Scientist 2024-2025.

2023

- Institute of Researchers (InRes), registered and recognized by the Ministry of MSME, Govt. of India **C V Raman Award 2023** in recognition of outstanding professional and research achievements in the field of cancer research and administration.
- Institute of Researchers (InRes), registered and recognized by the Ministry of MSME, Govt. of **India Research Excellence Award 2023** in recognition of research achievements in the field of molecular diagnostics.
- Patent Application No. 202311008402 Patent on a system and method for the detection of dengue virus serotypes 2023.

2018

- Travel grant from Wellcome Trust to attend Parasite database resources course in Malaysia.
- Best Scientific Presentation Award (Young Scientist) in International Conference on “Trends in Biochemical and Biomedical Research”, Banaras Hindu University, Banaras, India.

2017

- Travel grant from Tata Education and Development Trust, Mumbai to attend the Wellcome trust advanced course on Proteins interactions and networks at Wellcome genome campus, Hinxton, Cambridge, UK.

2014

- Selected as visiting scientist under **INSA-Bilateral Exchange Programme**, to visit The Israel Structural Proteomics Center situated at Weizmann Institute of Science, Rehovot, Israel **2009 Eli-Lilly Asia Outstanding Thesis Award**, (First prize).

2008

- Best **oral presentation award** at the “National seminar on Crystallography-37” Jadavpur University, Kolkata, 6-8th February.

2003

- Qualified **GATE**, March.

2002

- Awarded **CSIR fellowship** in National Eligibility Test, December.

2002

- Topped **in Master of Science** (Biochemistry), Dr. B. R. A. University, Agra.

2000

- **Gold medalist** in “Bachelor of Education”.

Salient Research Achievements

1. **RESEARCH PROJECT:** “Advance Center for Clinical Evaluation of Diagnostics of National Importance”. A multicentric project (ref ID-ICMRCAREP-2023-0000517) in collaboration with IIT, Delhi, IIT, Roorkee, IIT, Kanpur, ICMR-NICPR, Vardhman Mahavir Medical College and Safdarjung Hospital, **Budget: 15 Crores, 2024-29**
2. **RESEARCH PROJECT:** “Harmonization of COVID-19 RT-PCR Kits Efficiency Data towards Enhancing their Specificity and Sensitivity for Different Strains of SARS-Cov-2”,

Budget: 26.62lakhs, 2021-24

3. **RESEARCH PROJECT:** “Design, Development and Validation of a Microfluidic CRISPR-CAS 9/12 based Lateral flow assay (POC) for rapid and economical identification of Dengue virus Serotypes (DENV1, DENV2, DENV3 and DENV4) **Budget: 18 lakhs, 2021-24**
4. **RESEARCH PROJECT:** “Evaluating the potential of new chromone derivatives against human Great wall kinase for cancer therapy using comparative cell based and proteomics investigations”, **Budget: 66.65 lakhs, 2019-2022**
5. **RESEARCH PROJECT:** “Identification and validation of new potential protein biomarker panel” for head and neck squamous cell carcinoma using translational proteomics”, **Budget: 2.9 crores, 2025-28**

Patents

- IN Patent Application No. 202311008402 dated 09/02/2023 title “A system and method for the detection of dengue virus serotypes” (published).
- IN Patent Application No. 202411038068 title “Allele specific primer-probe sets for the rapid and accurate diagnosis and differentiation of Omicron and Delta variant of SARS CoV-2” (published).

Salient Academic Achievements

- Ph.D. guide: 01 completed, 04 ongoing as a supervisor, 01 as a co-supervisor.
- ICMR-RA supervision.
- Abstract published for the "Pasteur International Cancer Conference 2023" at the Institute Pasteur, Paris.
- Imparted training in Molecular Diagnostics and COVID-19, critical diagnostics, National Essential Diagnostics lists a Hands-on National Skill Development program in line with PM Kaushal Vikas Yojana.
- DBT nominated external expert of IBSC at MedTherapy.
- Facilitated MoU with the Academy of Scientific and Innovative Research (AcSIR) and coordinator of the NIB-AcSIR PhD program.
- Imparting training in Quality Control of Biologicals to Scientific and Technical personnel of related institutions including biological testing and manufacturing units.
- External Examiner in JNU, New Delhi, Amity University, Noida, and Dr. Bhim Rao Ambedkar University, Agra.
- Development of comprehensive resource materials for interactive learning.
- Research training for students by engaging them in research work, and organizing short courses, seminars, and workshops to provide them with a better perspective of science and possibilities for future exploration.
- Introduction of a 3D interactive academic program "Proteopedia" for improvising UG and PG courses in the domain of biological sciences with a practical approach that will not only provide a thorough knowledge of the biological concepts but will also ignite the creativity of

- the students so that they can publish their ideas on the International platform using Proteopedia.
- In the capacity of Assistant Professor, part of the following committees: Library, Admission. Also, an active member of the Environmental Club, mentoring weak students and organizing committee members of workshops, conferences, etc.
 - QCI accredited Functional Area Expert in Ecology and Biodiversity, Water Pollution Monitoring, and Prevention and Control.
 - Ph.D. committee panel member of the University of Cagliari, Italy in March 2018.
 - An external technical expert of the 8th meeting of the Technical Committee to assist the DoP in the PLI scheme for pharmaceuticals (virtual meeting) on June 11, 2021.
 - Delivered a Scientific Lecture on "Quality Control Testing of COVID-19 Diagnostics Kits" on 24-11-2021.
 - Costing Committee meeting for COVID-19 Viral Transport Medium (VTM) panel supply to Indigenous Manufacturers on 17-11-2021.
 - Meeting with DIPSARU to discuss and finalize the course Modules/Syllabus for the Certificate course on Quality Control of Pharmaceuticals held on 29/12/2021.

International Visits

1. Invited speaker in "38th Annual Workshop on Infectious Disease" conducted by NRL, Australia. Title of the talk: 'Quality Management Systems in biological industries'.
2. Participated in Wellcome Trust course of Parasite Database Resources at Bander Sunway, **Malaysia**, in October 2018.
3. Chairman of Ph.D. panel as external examiner for Ph.D. viva of eight doctoral students at University of Cagliari, Italy, March 2018.
4. Participated in Wellcome Trust Advanced Courses titled "Protein Interactions and Networks" scheduled from October 09-17, 2017 at Wellcome Genome Campus, **Cambridge, Hinxton, UK**.
5. Poster presentation at International Conference on Structural Genomics 2015 – DeepSequencing Meets Structural Biology – (ICSG2015-DSMSB) organized by **Weizmann Institute of Science campus in Rehovot, Israel** from June 07-11, 2015.
6. Advanced Workshop on Structural Biology: using Synchrotron Radiation to Visualise Biological Molecules organized by the **AbdusSalam International Centre for Theoretical Physics (ICTP) of UNESCO and the IAEA, Strada Costeira 11, 34151 Trieste, Italy** from December 15-19, 2014.
7. Visiting Scientist under INSA-Bilateral Exchange Programme 2014 to **Weizmann Institute of Science campus in Rehovot, Israel** from June 03-21, 2014.
8. Postdoctoral fellow at CHUL Research Centre, **Quebec, Canada** from March 2010-July 2011.

Salient Invited Lectures

1. Invited for expert talk on “Advancing molecular diagnostics: Regulatory insights and research perspectives” at GTU school of applied sciences and technology, Gujarat Technological

University, Ahmedabad on January 23 2025.

2. Invited as special guest and expert speaker at the monthly event PRABODH (Promoting Research Awareness in Biotechnology for the Development of Human Resources) held at Gujarat Biotechnology Research Centre (GBRC), Gujarat on January 18, 2025.
3. Invited speaker by IIT Delhi, Department of Biomedical Engineering at Pre-Market Compliance Workshop organized by mPragati, delivered a lecture on “Fundamental of In-vitro Diagnostics Testing Methodology for Developing Regulation-Complaints IVDS” on December 5, 2024 at IIT, Delhi.
4. Delivered a keynote lecture in the three days’ workshop “Gel to gene mastering PCR prime design and Electrophoresis” on the topic “PCR as a frontline method for Molecular Diagnostics” organized by Gautam Buddha University, Greater Noida UP on November 20, 2024.
5. Invited talk at National Centre for Medium-Range Weather Forecasting (NCMRWF) on the occasion of India International Science Festival (IISF) 2024 curtain raiser & outreach program on November 6, 2024.
6. Invited as a keynote speaker for Council of Science & Technology (CST-UP) entitled ‘Fostering Indian Pharmaceutical Industries and Challenges in Sustainable Environment Development’ held from 27-28 April 2024 at Galgotias University, Greater Noida, U.P.
7. Invited Speaker and Session Chair at 8th “World Cancer Congress-2024” held at JNU, New Delhi from 18-20 March 2024.
8. Invited speaker in the International Conference on “Current Trends in Biological Sciences” organized by Mizoram University, Mizoram from 18-20 March 2024 (Virtual).
9. Attended 50th National Seminar on Crystallography (NSC50) at the CSIR-Institute of Microbial Technology, Chandigarh November 22-24th, 2023
10. Attended a special meeting for the finalization of ToR for the R&D project, MHD20 at the Bureau of Indian Standards, on 14th November, 2023.
11. Invited speaker for the topic “Natural compounds mediated inhibition of MASTL kinase preventing breast cancer proliferation” October 11-12, 2023 International Conference on Structural Biology and Drug Discovery (ICSBDD-2023) Sponsored by Ministry of Science & Technology (India), Defence Research & Development Organization (India), & MarXperts (Germany).
12. Cancer therapy using bioinformatics and allied research March 31, 2023 Department of Biotechnology, Delhi Technical University, Delhi.
13. Bioinformatics and Data Science March 29, 2023 Department of Biochemistry, School of Life Sciences, Dr. Bhimrao Ambedkar University, Khandari Campus of Agra.
14. Quality Management Systems in Biological Industries October 12, 2022.
15. 38th Annual Workshop on Infectious Disease conducted by NRL, Australia.
16. Invited for International Conference on contributions Of Acharya JagdishChandra Bose: A

Satyagrahi Scientist-“Multifaceted Science Visionary Sir J.C. Bose: past and present” Dated 30th Nov-01 Dec, 2022-IUAS, New Delhi.

17. Participated as a Speaker in the 7th World Cancer Congress, 19th & 20th November 2022, Theme: Exploring New Horizons in Oncology and Cancer Research, Bengaluru.
18. Invited lecture title “Structural hierarchy in proteins as rational to drug design” in Webinar on Corona virus and COVID-19 pandemic: Victory beyond defeat, organized by Lucknow University on 31 May 2020.
19. Invited lecture title “AGC kinases as drug targets in cancer” at 8th International Translational Cancer Research Conference: Role of Inflammation and Immune System for Cancer Prevention and Treatment SCHEDULED FROM Feb.13-16, 2020 at BHU, Varanasi.
20. Invited lecture title “Metabolic mapping and structural studies implicated in C3 pathway of *Pisum sativum* using insilico approaches” National Conference on Current Scenario and future trends in Biotechnology: BIOFUTURITY organized by Department of Biotechnology Engineering, Institute of Engineering and Technology, Bundelkhand University, Jhansi, sponsored by U.P. Higher Education Commission from March 27th-28th, 2018.
21. Invited lecture title “Structure based drug discovery approaches against head and neck squamous cell carcinoma (HNSCC)” in International Conference on “Trends in Biochemical and Biomedical Research”, Banaras Hindu University, Banaras, India Feb. 13th-15th, 2018.
22. Invited lecture in National Seminar on Crystallography-45 held at IIT (BHU), Varanasi from 9th-12th July 2017.
23. National Conference on “Development and Advancement in Conservation, Propagation and Sustainable Utilization of Medicinal Plants” held on 20-21 January 2017 at School of Biotechnology, Gautam Buddha University, Greater Noida, sponsored by the National Medicinal Plants Board, Government of India, Ministry of AYUSH.
24. “Computational Modeling to Drug Discovery and Development” delivered at DBT sponsored workshop on “Chemo-informatics and Computational Drug Design” held at Biotech Park, Lucknow from 27-29th Feb. 2012.
25. Series of lectures on Molecular Biology and Biotechnology at Biotech Park, Lucknow scheduled during 6-9 th Aug. 2012.
26. Invited lecture title “Protein modelling and rational drug design” in DBT sponsored workshop Chemo-informatics and Computational Drug Design” held at Biotech Park, Lucknow from 21-22 June, 2012.

PUBLICATIONS (All publications are Scopus Indexed)

1. **Misra G***, Gupta M, Singhal R, Qaisar S, Singh P, Anvikar A. Strategic Approach to Enhancing Diagnostic Precision: Optimizing Panel Size for HBV and HCV Viral Load Monitoring Kits. Journal of Medical Virology. 2025 May. (accepted) *(Corresponding author)
2. Priyanshi Singh, Gauri Misra, Neelima Mishra, Anupkumar Anvikar, Varsha Potdar. Development and validation of novel RT-PCR assay for molecular diagnostic of viral

variants using SARS-CoV-2 as a case study, *Methods*, Volume 240,2025,Pages 54-62,ISSN 1046-2023,<https://doi.org/10.1016/j.ymeth.2025.04.006>.

3. Tara Chand, Ashwini Kumar Dubey, **Gauri Misra***, (2025) Unraveling HPV-Associated cancer complexity: From molecular insights to innovative therapies, *Heliyon*, *(Corresponding author)
4. Anoop Kumar, Supriya Saini, Anup Anvikar, Neelima Mishra, **Gauri Misra***, (2025). The evolving landscape of emerging virus diagnosis: Challenges and Innovations, *Molecular Biotechnology*, <https://doi.org/10.1007/s12033-025-01385-w> *(Corresponding author)
5. Mrinalini Roy, Shubham Mathur, Pramodkumar P. Gupta, Sanket Kaushik, **Gauri Misra***, S.L. Kothari and Vijay Kumar Srivastav, (2024). Elucidation of EhSec1 and Interaction with EhSyntaxin1A / 1B of *Entamoeba Histolytica* via Docking and Molecular Stimulations, *Current Proteomics*, In Press. *(Corresponding author)
6. Kumar A, **Misra G***, Mohandas S, Yadav PD. Multi-epitope vaccine design using in silico analysis of glycoprotein and nucleocapsid of NIPAH virus. *PloS one*. 2024 May 10;19(5):e0300507, Impact factor: 2.9, Citations: 3 *(Corresponding author)
7. Anoop K, Neeraj S, Anupkumar RA, **Gauri M***. (2024) Monkeypox virus: Insights into Pathogenesis and Laboratory Testing Methods. *3 Biotech*, 2024 Impact factor: 2.9, Citations: 2 *(Corresponding author)
8. Manika P Sharma, Supriya Shukla, **Gauri Misra***. Recent advances in breast cancer cell line research. *Int J Cancer*. 2024 Jan 17. doi: 10.1002/ijc.34849. Epub ahead of print. PMID: 38230499, Impact factor: 7.396, Citations: 11. *(Corresponding author)
9. **Misra G***, Rajawat J, Pal R, Smith JC, Kumar A. Targeted inhibition of MASTL kinase activity induces apoptosis in breast cancer. *Life Sciences*. 2023 Dec 1;334: 122250. ISSN 0024-3205, Impact factor: 5.2, Citations: 2. *(Corresponding author)
10. **Misra G***, Qaisar S, Singh P. CRISPR-based therapeutic targeting of signaling pathways in breast cancer. *Biochim Biophys Acta Mol Basis Dis*. 2023 Sep 4;166872. doi: 10.1016/j.bbadis.2023.166872. Epub ahead of print. PMID: 37666438 Impact factor: 4.2, Citations: 7. *(Corresponding author)
11. **Misra, G***, Manzoor, A, Chopra, M. et al. Genomic epidemiology of SARS-CoV-2 from Uttar Pradesh, India. *Sci Rep* 13, 14847 (2023). Impact factor: 3.8, Citations: 4. *(Corresponding author)
12. Sudha R, Goel I, Katiyar P, **Misra G**, Roshan R, Sharma N, Sharma SK, Katiyar A. Haemovigilance in India during the COVID-19 pandemic. *J Glob Health*. 2023 Sep 22;13:03030. doi: 10.7189/jogh.13.03030. PMID: 37733601; PMCID: PMC10513120 Impact factor: 5.3
13. **Misra G***, Hora S, Ginwal S, Singh N, Anvikar A. SARS-CoV-2 Variants Impact on Key Signaling Pathways Metamorphoses into Severity. *Brazilian Archives of Biology and Technology*. 2023 May 22;66:e23220261, Impact factor: 0.579, Citations: 6. *(Corresponding author)

14. Polisetty A, **Misra G***, Rajawat J, Katiyar A, Singh H, Bhatt AN. Therapeutic natural compounds Enzastaurin and Palbociclib inhibit MASTL kinase activity preventing breast cancer cell proliferation. *Medical Oncology*. 2022 May 23;39(8):100, Impact factor: 2.7, citations: 11. *(Corresponding author)
15. Pal R, Kumar A, **Misra G***. Exploring TEAD2 as a drug target for therapeutic intervention of cancer: A multi-computational case study. *Briefings in Bioinformatics*. 2021 Sep;22(5):bbab007., Impact factor: 6.8, citations: 12. *(Corresponding author)
16. Singh VK, Pal R, Srivastava P, **Misra G**, Shukla Y, Sharma PK. Exposure of androgen mimicking environmental chemicals enhances proliferation of prostate cancer (LNCaP) cells by inducing AR expression and epigenetic modifications. *Environmental Pollution*. 2021 Mar 1; 272:116397. Impact factor: 7.6, citations: 16
17. Sharma S, Garg I, **Mishra G**, Kumari B, Ganju L, Kumar B. Association of Toll-like receptor 2, 4, and 9 gene polymorphism with high altitude induced thrombosis patients in Indian population. *Insights Clin Cell Immunol*. 2019. Impact factor: 2.06, Citations: 02
18. Tripathy K, Singh B, **Misra G**, Singh NK. Identification, distribution and comparative analysis of microsatellites in the chloroplast genome of *Oryza* species. *Indian Journal of Genetics and Plant Breeding*. 2019 Sep 25;79(03):536-44., Impact factor: 1.339, Citations: 07
19. Ammarah U, Kumar A, Pal R, Bal NC, **Misra G***. Identification of new inhibitors against human Great wall kinase using in silico approaches. *Scientific RepoRts*. 2018 Mar 20;8(1):4894, Impact factor: 4.997, ISSN:2045-2322, Citations: 33. *(Corresponding author)
20. **Misra G***, Gupta S, Jabalia N. Understanding the interactions of high-mobility group of protein domain B1 with DNA adducts generated by platinum anticancer molecules using in silico approaches. *Interdisciplinary Sciences: Computational Life Sciences*. 2018 Sep;10:476-85, Impact factor: 4.8, Citations: 05. *(Corresponding author)
21. Srivastava P, Pal R, Misra G. Comparative modelling and virtual screening to discover potential competitive inhibitors targeting the 30s ribosomal subunit S2 and S9 in *Acinetobacter baumannii*. In 2018 International Conference on Bioinformatics and Systems Biology (BSB) 2018 Oct 26 (pp. 40-43). IEEE, citations: 03
22. Tripathy K, Singh B, Singh N, Rai V, **Misra G**, Singh NK. A database of wild rice germplasm of *Oryza rufipogon* species complex from different agro- climatic zones of India. *Database*. 2018; 2018:bay058. Impact factor: 4.159, ISSN no. 0378-1119, Impact factor: 5.8, citations: 12
23. Pal R, **Misra G**, Mathur P. In silico screening of small molecule modulators of Zika virus proteins. In 2017 7th International Conference on Cloud Computing, Data Science & Engineering-Confluence 2017 Jan 12 (pp. 381- 386). IEEE. * Corresponding author, citations: 05
24. He W, **Gauri M**, Li T, Wang R, Lin SX. Current knowledge of the multifunctional 17 β -hydroxysteroid dehydrogenase type 1 (HSD17B1). *Gene*. 2016 Aug 15;588(1):54-61. Impact factor: 3.913, citations: 80

25. Gupta S, **Misra G**, Khurana SP. Bioinformatics: promises and progress. International Journal of Bioinformatics Research and Applications. 2015;11(5):462-7., Impact factor: 0.184, citations: 05
26. Kumar A, Chakravarty H, Bal NC, Balaraju T, Jena N, **Misra G**, Bal C, PieroniE, Periasamy M, Sharon A. Identification of calcium binding sites on calsequestrin 1 and their implications for polymerization. Molecular Biosystems. 2013;9(7):1949-57. Impact factor: 3.395, citations: 31
27. Shipra G, **Gauri M**, Mohan Chandra P, Prahlad Kishore S. Identification of novel potent inhibitors against Bcl-xL anti-apoptotic protein using docking studies. Protein and peptide letters. 2012 Dec 1;19(12):1302-17. Impact factor: 1.927, citations: 18
28. Gupta S, **Misra G**, Chandra Pant M, Kishore Seth P. Targeting the epidermal growth factor receptor: exploring the potential of novel inhibitor N-(3-ethynylphenyl)-6, 7-bis (2-methoxyethoxy) quinolin-4-amine using docking and molecular dynamics simulation. Protein and Peptide Letters. 2012 Sep 1; 19(9):955-68. Impact factor:1.927, citations: 14
29. Gupta S, **Misra G**, Pant MC, Seth PK. Prediction of a new surface binding pocket and evaluation of inhibitors against huntingtin interacting protein 14: an insight using docking studies. Journal of molecular modeling. 2011Dec; 17:3047-56. Impact factor: 2.172, citations: 17
30. **Misra G**, Ramachandran R. Exploring the positional importance of aromatic residues and lysine in the interactions of peptides with the Plasmodium falciparum Hsp70-1. Biochimica et Biophysica Acta (BBA)-Proteins and Proteomics. 2010 Nov 1;1804(11):2146-52, Impact factor: 3.2, citations: 12
31. **Misra G**, Ramachandran R. Hsp70-1 from Plasmodium falciparum: protein stability, domain analysis and chaperone activity. Biophysical chemistry. 2009 Jun 1;142(1-3):55-64. Impact factor: 3.628, citations: 60
32. **Misra G**, Aggarwal A, Dube D, Zaman MS, Singh Y, Ramachandran R. Crystalstructure of the Bacillus anthracis nucleoside diphosphate kinase and its characterization reveals an enzyme adapted to perform under stress conditions. Proteins: Structure, Function, and Bioinformatics. 2009 Aug1;76(2):496-506. Impact factor: 4.088, ISSN: 1097-0134, citations: 14
33. **Misra G**, Aggarwal A, Mittal S, Singh Y, Ramachandran R. Purification, crystallization and preliminary structural analysis of nucleoside diphosphate kinase from Bacillus anthracis. Acta Crystallographica Section F: Structural Biology and Crystallization Communications. 2007 Dec 1;63(12):1084-6. Impact factor: 1.072, citations: 02
34. **Misra Gauri***, Rajawat Jyotika, Kumar Anoop, Dubey Ashwini K. Future Health Policy Perspectives for COVID-19 Infection, 'Advances in Bioresearch', March, 2024.
35. Jyotika Rajawat, Divya Tandon, Chithra Lekha, Gauri Misra. Study on awareness about women centric cancer among urban women in India.Adv. Biores., Vol 15 (6) November 2024: 379-386

Books (ALL INTERNATIONAL PEER REVIEWED)

1. Misra G, editor. Introduction to biomolecular structure and biophysics: basics of biophysics. Springer; 2017 Sep 7., citations: 11
2. Arivaradarajan P, Misra G. Omics Approaches, Technologies And Applications. Springer, Singapore; 2018. citations: 14
3. Misra G, editor. Data processing handbook for complex biological data sources. Academic Press; 2019 Mar 23. citations: 13
4. Misra G, Srivastava VK, editors. Molecular Advancements in Tropical Diseases Drug Discovery. Academic Press; 2020 May 12. citations: 1
5. Misra G, Rajawat J, editors. Protocol Handbook for Cancer Biology. Academic Press; 2021 Feb 12. citations: 1
6. Misra G, editor. Quality Control and Regulatory Aspects for Biologicals: Regulations and Best Practices. Taylor and Francis Group, CRC Press; 2024

Book Chapters: (in international peer reviewed books)

1. "Protein Structure and function" in the book "Introduction to Biomolecular Structure and Biophysics" published by Springer Nature (ISBN no. 978-981-10- 4967-5), 2017.
2. Misra, G., 2018. Microscopic Perspectives on "Macromolecular Interactions: Proteins and Nucleic Acids". Elsevier, Reference Module in Chemistry, Molecular Sciences and Chemical Engineering Module in Chemistry, Molecular Sciences and Chemical Engineering.
3. Misra, G., 2019. "Fluorescence spectroscopy" in the book "Data processing handbook for complex biological data sources" for Elsevier.
4. Md. Tashfeen, Gauri M., Bhaswati B. 2019. "Circular Dichroism" in the book "Data processing handbook for complex biological data sources" for Elsevier, citations: 05
5. Leonardo Vazquez and Gauri Misra 2019. "Nuclear Magnetic Resonance" in the book "Data processing handbook for complex biological data sources" for Elsevier. citations: 02
6. Misra, G., Neetu J., 2019. "In silico Modeling and Drug Designing" in the book Cutting Edge Techniques in Biophysics, Biochemistry and Cell Biology: From Principle to Applications' for Bentham Sciences.

Expert Committee member/ Seminars/ FDP'S

1. Participated as an expert to examine the revised NAT specification based on comments received from GAP (Global Advisory Panel), dated September 1, 2022
2. Training completed on "Effective Implementation and Internal Audit of ISO/IEC 17025:2017 Laboratory Management System (LMS) & NABL Criteria" held at NIB, Noida from May 20-23, 2019.
3. Contribution towards Six days Residential training programme on "Training of Trainers for Strengthening of Blood Services" under National Health Mission in Collaboration with National Institute of Biologicals, NOIDA for blood bank officials, Medical Officers

& Laboratory Technicians from MP in IDK&MDL laboratory, NIB, Noida from June 12-14, 2019.

4. Participated in Wellcome Trust course of Parasite Database Resources at Bander Sunway, Malaysia, in October 2018.
5. Oral presentation in Young Scientist category in International conference titled "Trends in Biochemical and Biomedical Research: Advances and Challenges" (TBRR-18) scheduled from February 13-15 2018 at Institute of Science, Banaras Hindu University (BHU), Varanasi.
6. Participated in workshop on "Grant writing & Management" at JNU, New Delhi from November 26-28, New Delhi, sponsored by Maxplanck organization and University of Cologne.
7. Instructor in DBT sponsored short term training course on 'Application of Metagenomic Tools for Bioremediation towards Environmental Restoration' conducted from November 14-29, 2017 at Amity Institute of Biotechnology, Amity University, Noida.
8. Participated in Wellcome Trust Advanced Courses titled "Protein Interactions and Networks" scheduled from October 09-17, 2017 at Wellcome Genome Campus, Hinxton.
9. Participated in workshop cum training on "Application of Bioinformatics Tools in Agriculture" scheduled at AKMU, ICAR-IARI, PUSA Campus, New Delhi from March 06-08, 2017.
10. Organizing committee member of workshop on 'Computer aided Drug and Biologics Discovery' in association with Schrodinger held at Amity University, Noida from November 23-24, 2015.
11. Poster presentation at International Conference on Structural Genomics 2015 – Deep Sequencing Meets Structural Biology – (ICSG2015-DSMSB) organized by Weizmann Institute of Science campus in Rehovot, Israel from June 07-11, 2015.
12. Participated in the Advanced Workshop on Structural Biology: using Synchrotron Radiation to Visualize Biological Molecules organized by the Abdus Salam International Centre for Theoretical Physics (ICTP) of UNESCO and the IAEA, Strada Costeira 11, 34151 Trieste, Italy from December 15-19, 2014.
13. Oral presentation on "Crystal structure of nucleoside diphosphate kinase from *Bacillus anthracis*" in 37th National Seminar on Crystallography at Jadavpur University, Kolkata from February 6-8, 2008.
14. 7th International Symposium of the International Society for the Development of Natural products jointly with 6th National Symposium of the National Society of Ethnopharmacology, India and 1st International Symposium of Phytochemical Society of Asia on Recent Advances in Natural Products held at Amity University, Uttar Pradesh, Noida from November 15-17, 2012.
15. Member of organizing committee in International Symposium on "Frontiers in Cancer Research: Prevention to Therapeutics" organized by Amity University, Noida from November 15-16, 2013.
16. Faculty Development Programme (two weeks) on 'Training the Trainers on

Entrepreneurial Skills' organized by National Science and Technology Entrepreneurship Development Board, Department of Science and Technology held at Amity University, Uttar Pradesh, Noida from November 19-30, 2012.

17. Faculty Development Programme on IPR: Creation to Commercialization organized by Amity Academic Staff College in association with Amity Institute of Biotechnology held at Amity University, Uttar Pradesh, Noida on December 10, 2012.
18. INSA – CAS workshop on structural biology held in IISC Bangalore from December 21-23, 2007.

Languages

English, Hindi

Additional Information

Personal Dossier

Date of birth: April 22, 1981

Sex: Female

Marital Status: Unmarried

Nationality: Indian