## List of Publications

| S.No | JOURNAL DETAILS | IMPACT FACTOR |
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| 1. | Kanp, Tanmoy, Anish Dhuri, Mayur Aalhate, Srushti Mahajan, Sharon Munagalasetty, Sunil Kumar Sah, Santanu Kaity, Bhagwati Sharma, Vasundhra Bhandari, and Pankaj Kumar Singh. "Manifesting the Dasatinib-gallic acid co-amorphous system to augment anticancer potential: Physicochemical characterization, in silico molecular simulation, ex vivo permeability, and in vitro efficacy." International Journal of Pharmaceutics 665 (2024): 124672. | 5.3 |
| 2. | Suresh, Akash, Umarani Brahma, Vasundhra Bhandari, and Paresh Sharma. "Unveiling the antimicrobial action of MMV676501, MMV687807, and MMV102872 against Staphylococcus aureus: A mechanistic investigation." Current Research in Biotechnology 8 (2024): 100245. | 5.77 |
| 3. | Chary, Padakanti Sandeep, Ankush Bansode, Naveen Rajana, Valamla Bhavana, Siva Singothu, Anamika Sharma, Santosh Kumar Guru, Vasundhra Bhandari, and Neelesh Kumar Mehra. "Enhancing breast cancer treatment: Comprehensive study of gefitinib-loaded poloxamer 407/TPGS mixed micelles through design, development, in-silico modelling, In-Vitro testing, and Ex-Vivo characterization." International Journal of Pharmaceutics 657 (2024): 124109. | 4.19 |
| 4. | Singh, Siddharth, Nidhi Varshney, Siva Singothu, Vasundhra Bhandari, and Hem Chandra Jha. "Influence of chlorpyrifos and endosulfan and their metabolites on the virulence of Helicobacter pylori." Environmental Pollution 347 (2024): 123676. | 8.8 |
| 5. | Paul, Priti, Ujala Gupta, Rahul Kumar, Sharon Munagalasetty, Hara Prasad Padhy, Rahul Nair, Srushti Mahajan et al. "Fabrication of β-cyclodextrin and 2-hydroxypropyl-β-cyclodextrin inclusion complexes of Palbociclib: Physicochemical characterization, solubility enhancement, in-silico studies, in vitro assessment in MDA-MB-231 cell line." Journal of Molecular Liquids 399 (2024): 124458. | 5.3 |
| 6. | Singh, S., Varshney, N., Singothu, S., Bhandari, V., & Jha, H. C. (2024). Influence of chlorpyrifos and endosulfan and their metabolites on the virulence of Helicobacter pylori. Environ Pollut, 347, 123676. doi:10.1016/j.envpol.2024.123676 | 8.9 |
| 7. | Siddharth Singh, Nidhi Varshney, Siva Singothu, Vasundhra Bhandari, Hem Chandra Jha. (Co-corresponding author) Influence of chlorpyrifos and endosulfan and their metabolites on the virulence of Helicobacter pylori. (2024). Environmental Pollution. 347 (123676). https://doi.org/10.1016/j.envpol.2024.123676. | 8.8 |
| 8. | Kamble, S., Singh, S., Suresh, A., Singothu, S., Dandesena, D., Bhandari, V., & Sharma, P. (2024). Epidrugs: alternative chemotherapy targeting Theileria annulata schizont stage parasites. Microbiol Spectr, e0325823. doi:10.1128/spectrum.03258-23 | 3.4 |
| 9. | Patil, S. K., Chary, P. S., Maddipatla, S., Madhavi, Y. V., Singothu, S., Bhandari, V., . . . Mehra, N. K. (2024). Development of venetoclax with 2-hydroxypropyl-beta-cyclodextrin inclusion complex for improved bioavailability. J Biomol Struct Dyn, 1-18. doi:10.1080/07391102.2024.2305695 | 4.4 |
| 10. | Singothu, S., & Bhandari, V. (2024). Computational assessment of marine natural products as LasR inhibitors for attenuating quorum sensing in Pseudomonas aeruginosa. J Biomol Struct Dyn, 1-15. doi:10.1080/07391102.2024.2319110 | 4.4 |
| 11. | Barman, M., Dandasena, D., Suresh, A., Bhandari, V., Kamble, S., Singh, S., . . . Sharma, P. (2023). Artemisinin derivatives induce oxidative stress leading to DNA damage and | 7.5 |

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| | caspase-mediated apoptosis in Theileria annulata-transformed cells. Cell Commun Signal, 21(1), 78. doi:10.1186/s12964-023-01067-7 | |
| 12. | Devsani, N., Vemula, D., & Bhandari, V. (2023). The glycoprotein gp63- a potential pan drug target for developing new antileishmanial agents. Biochimie, 207, 75-82. doi:10.1016/j.biochi.2022.11.015 | 3.5 |
| 13. | Murthy, S., Suresh, A., Dandasena, D., Singh, S., Subudhi, M., Bhandari, V., . . . Sharma, P. (2023). Multiplex ddPCR: A Promising Diagnostic Assay for Early Detection and Drug Monitoring in Bovine Theileriosis. Pathogens, 12(2). doi:10.3390/pathogens12020296 | 4.5 |
| 14. | Podduturi, S., Vemula, D., Singothu, S., & Bhandari, V. (2023). In-silico investigation of E8 surface protein of the monkeypox virus to identify potential therapeutic agents. J Biomol Struct Dyn, 1-14. doi:10.1080/07391102.2023.2245041 | 4.3 |
| 15. | Singothu, S., Begum, P. J., Maddi, D., Devsani, N., & Bhandari, V. (2023). Unveiling the potential of marine compounds as quorum sensing inhibitors targeting Pseudomonas aeruginosa's LasI: A computational study using molecular docking and molecular dynamics. J Cell Biochem, 124(10), 1573-1586. doi:10.1002/jcb.30465 | 4.4 |
| 16. | Singothu, S., Devsani, N., Jahidha Begum, P., Maddi, D., & Bhandari, V. (2023). Molecular docking and molecular dynamics studies of natural products unravel potential inhibitors against OmpA of Acinetobacter baumannii. J Biomol Struct Dyn, 1-12. doi:10.1080/07391102.2023.2250446 | 4.4 |
| 17. | Singh, Siddharth, Nidhi Varshney, Siva Singothu, Vasundhra Bhandari, and Hem Chandra Jha. "Influence of chlorpyrifos and endosulfan and their metabolites on the virulence of Helicobacter pylori." Environmental Pollution 347 (2024): 123676. | 8.8 |
| 18. | Varshney, N., Murmu, S., Baral, B., Kashyap, D., Singh, S., Kandpal, M., . . . Jha, H. C. (2023). Unraveling the Aurora kinase A and Epstein-Barr nuclear antigen 1 axis in Epstein Barr virus associated gastric cancer. Virology, 588, 109901. doi:10.1016/j.virol.2023.109901 | 3.5 |
| 19. | Vemula, D., Jayasurya, P., Sushmitha, V., Kumar, Y. N., & Bhandari, V. (2023). CADD, AI and ML in drug discovery: A comprehensive review. Eur J Pharm Sci, 181, 106324. doi:10.1016/j.ejps.2022.106324 | 5.1 |
| 20. | Vemula, D., Maddi, D. R., & Bhandari, V. (2023). Homology modeling, virtual screening, molecular docking, and dynamics studies for discovering Staphylococcus epidermidis FtsZ inhibitors. Front Mol Biosci, 10, 1087676. doi:10.3389/fmolb.2023.1087676 | 6.1 |
| 21. | Rejinthala, Swathi, Srinivas Endoori, Vasundhra Bhandari, and T. Mondal. "Novel pyrimidine-piperazine hybrids as potential antimicrobial agents: in-vitro antimicrobial and in-silico studies." Results in Chemistry (2023): 100951. | 2.3 |
| 22. | Bishwa Narayan Kondoli, Divya Vemula, Umarani Brahma, Vasundhra Bhandari, Pratap Chandra Acharya, Stereoselective synthesis of dispiropyrrolidinyl oxindole derivatives and evaluation of their antibacterial efficacy, Journal of Molecular Structure, Volume 1288, 2023, 135808, ISSN 0022-2860, https://doi.org/10.1016/j.molstruc.2023.135808 | 3.1 |
| 23. | Vemula, D., Jayasurya, P., Sushmitha, V., Kumar, Y.N. and Bhandari, V., 2023. CADD, AI and ML in drug discovery: A comprehensive review. European Journal of Pharmaceutical Sciences, 181, p.106324. | 4.59 |
| 24. | Varshney, N., Murmu, S., Baral, B., Kashyap, D., Singh, S., Kandpal, M., Bhandari, V., Chaurasia, A., Kumar, S. and Jha, H.C., 2023. Unraveling the Aurora kinase A and Epstein-Barr nuclear antigen 1 axis in Epstein Barr virus associated gastric cancer. Virology, 588, p.109901. | 2.73 |
| 25. | Rejinthala, S., Endoori, S., Vemula, D., Bhandari, V. and Mondal, T., 2023. Novel pyrimidine-piperazine hybrids as potential antimicrobial agents: In-vitro antimicrobial and in-silico studies. Results in Chemistry, 5, p.100951. | 2.3 |

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| 26. | Vemula, D., Maddi, D.R. and Bhandari, V., 2023. Homology modeling, virtual screening, molecular docking, and dynamics studies for discovering Staphylococcus epidermidis FtsZ inhibitors. Frontiers in Molecular Biosciences, 10, p.1087676. | 3.9 |
| 27. | Devsani, N., Vemula, D. and Bhandari, V., 2023. The glycoprotein gp63–a potential pan drug target for developing new antileishmanial agents. Biochimie, 207, pp.75-82. | 3.3 |
| 28. | Singothu, S., Begum, P.J., Maddi, D., Devsani, N. and Bhandari, V., 2023. Unveiling the potential of marine compounds as quorum sensing inhibitors targeting Pseudomonas aeruginosa's LasI: A computational study using molecular docking and molecular dynamics. Journal of Cellular Biochemistry, 124(10), pp.1573-1586. | 4.48 |
| 29. | Barman, M., Dandasena, D., Suresh, A., Bhandari, V., Kamble, S., Singh, S., Subudhi, M. and Sharma, P., 2023. Artemisinin derivatives induce oxidative stress leading to DNA damage and caspase-mediated apoptosis in Theileria annulata-transformed cells. Cell Communication and Signaling, 21(1), p.78. | 8.2 |
| 30. | Kondoli, B.N., Vemula, D., Brahma, U., Bhandari, V. and Acharya, P.C., 2023. Stereoselective synthesis of dispiropyrrolidinyl oxindole derivatives and evaluation of their antibacterial efficacy. Journal of Molecular Structure, 1288, p.135808. | 4.4 |
| 31. | Madhumanti Barman, Debabrata Dandasena, Akash Suresh, Vasundhra Bhandari, Sonam Kamble, Sakshi Singh, Madhusmita Subudhi & Paresh Sharma. Artemisinin derivatives induce oxidative stress leading to DNA damage and caspase-mediated apoptosis in Theileria annulata-transformed cells. Cell Commun Signal 21, 78 (2023). https://doi.org/10.1186/s12964-023-01067-7. | 8.2 |
| 32. | Shourya Podduturi, Divya Vemula, Siva Singothu & Vasundhra Bhandari (2023) In-silico investigation of E8 surface protein of the monkeypox virus to identify potential therapeutic agents, Journal of Biomolecular Structure and Dynamics, (2023) DOI: 10.1080/07391102.2023.2245041. | 4.47 |
| 33. | Siva Singothu, Namrata Devsani, Pathan Jahidha Begum, Dhanashri Maddi & Vasundhra Bhandari (2023) Molecular docking and molecular dynamics studies of natural products unravel potential inhibitors against OmpA of Acinetobacter baumannii, Journal of Biomolecular Structure and Dynamics, DOI: 10.1080/07391102.2023.2250446 | 4.47 |
| 34. | Murthy, S., Suresh, A., Dandasena, D., Singh, S., Subudhi, M., Bhandari, V., Bhanot, V., Arora, J.S. and Sharma, P., 2023. Multiplex ddPCR: A promising diagnostic assay for early detection and drug monitoring in Bovine Theileriosis. Pathogens, 12(2), p.296. | 3.41 |
| 35. | Murthy, Shweta, Akash Suresh, Debabrata Dandasena, Sakshi Singh, Madhusmita Subudhi, Vasundhra Bhandari, Vandna Bhanot, Jaspreet Singh Arora, and Paresh Sharma. 2023. "Multiplex ddPCR: A Promising Diagnostic Assay for Early Detection and Drug Monitoring in Bovine Theileriosis" Pathogens 12, no. 2: 296. https://doi.org/10.3390/pathogens12020296. | 3.41 |
| 36. | Kumar, R., Amruthanjali, T., Singothu, S., Singh, S.B. and Bhandari, V., 2022. Uncoupling proteins as a therapeutic target for the development of new era drugs against neurodegenerative disorder. Biomedicine & Pharmacotherapy, 147, p.112656. | 7.2 |
| 37. | Kandpal, M., Indari, O., Baral, B., Jakhmola, S., Tiwari, D., Bhandari, V., Pandey, R.K., Bala, K., Sonawane, A. and Jha, H.C., 2022. Dysbiosis of Gut Microbiota from the Perspective of the Gut–Brain Axis: Role in the Provocation of Neurological Disorders. Metabolites, 12(11), p.1064. | 3.4 |
| 38. | Brahma, U., Suresh, A., Murthy, S., Bhandari, V. and Sharma, P., 2022. Antibiotic resistance and molecular profiling of the clinical isolates of Staphylococcus aureus causing bovine mastitis from India. Microorganisms, 10(4), p.833. | 4.1 |

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| 39. | Kashyap, D., Panda, M., Baral, B., Varshney, N., Bhandari, V., Parmar, H.S., Prasad, A. and Jha, H.C., 2022. Outer membrane vesicles: An emerging vaccine platform. Vaccines, 10(10), p.1578. | 5.5 |
| 40. | Jyothi, V.G.S., Katta, C.B., Singothu, S., Preeti, K., Bhandari, V., Singh, S.B. and Madan, J., 2022. Analysis of the therapeutic efficacy of meloxicam-loaded solid lipid nanoparticles topical gel in Wistar rats knee osteoarthritis. Journal of Drug Delivery Science and Technology, 77, p.103914. | 4.5 |
| 41. | Bhandari, V. and Suresh, A., 2022. Next-generation approaches needed to tackle antimicrobial resistance for the development of novel therapies against the deadly pathogens. Frontiers in Pharmacology, 13, p.838092. | 4.4 |
| 42. | Bhandari, V., Parmar, H.S., Prasad, A. and Jha, H.C., 2022. Outer Membrane Vesicles: An Emerging Vaccine Platform. Vaccines 2022, 10, 1578. | 5.5 |
| 43. | Varshney, N., Murmu, S., Baral, B., Kashyap, D., Singh, S., Kandpal, M., Bhandari, V., Chaurasia, A., Kumar, S. and Jha, H.C., Exploring the Plausible Role of Aurora Kinase A in Epstein-Barr Virus Mediated Gastric Cancer Progression. Available at SSRN 4249946. | |
| 44. | Mistry, H., Sharma, P., Mahato, S., Saravanan, R., Kumar, P.A. and Bhandari, V., 2020. Correction: prevalence and characterization of oxacillin susceptible meca-positive clinical isolates of Staphylococcus aureus causing bovine mastitis in India. Plos one, 15(4), p.e0232348. | 2.9 |
| 45. | A Suresh, Bhandari V. Next-Generation Approaches Needed to Tackle Antimicrobial Resistance for the Development of Novel Therapies Against the Deadly Pathogens. Frontiers in Pharmacology. 2022;13:838092. | 4.4 |
| 46. | Bhandari, V., Parmar, H.S., Prasad, A. and Jha, H.C., 2022. Outer Membrane Vesicles: An Emerging Vaccine Platform. Vaccines 2022, 10, 1578. | 5.5 |
| 47. | Barman, M., Kamble, S., Roy, S., Bhandari, V., Singothu, S., Dandasena, D., Suresh, A. and Sharma, P., 2021. Antitheilerial activity of the anticancer histone deacetylase inhibitors. Frontiers in Microbiology, 12, p.759817. | 4 |
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| 49. | Vaskuri G.S. Sainaga Jyothi, Chanti Babu Katta, Siva Singothu, Kumari Preeti, Vasundhra Bhandari, Shashi Bala Singh, Jitender Madan. Analysis of the therapeutic efficacy of meloxicam-loaded solid lipid nanoparticles topical gel in Wistar rats knee osteoarthritis, Journal of Drug Delivery Science and Technology, Volume 77, 2022, 103914, ISSN 1773-2247. | 4.5 |
| 50. | Mistry H, Sharma P, Mahato S, Saravanan R, Kumar PA, Bhandari V. Prevalence and Characterization of Oxacillin Susceptible mecA-Positive Clinical Isolates of Staphylococcus aureus Causing Bovine Mastitis in India (vol 11, e0162256, 2016). PLOS ONE. 2020 Apr 22;15(4). | 2.9 |
| 51. | Gajanand Mittal, Vasundhra Bhandari*, Rajni Gaind#1, Vandana Rani1, Shimpi Chopra1, Reetika Dawar3, Raman Sardana3, PK Verma. Linezolid resistant Coagulase-negative Staphylococci (LRCoNS) with novel mutations causing Bloodstream Infections (BSI) in India (*Shared First Author). BMC Infectious Disease, 2019 19 (1), 1-.8. | 3.51 |
| 52. | Brahma, Umarani; Sharma, Paresh; Murthy, Shweta; Sharma, Savitri; Chakraborty, Shalini; Appalaraju, Sundarapu Naga; Bhandari, Vasundhra. Decreased expression of femXAB genes and fnbp mediated biofilm pathways in OS-MRSA clinical isolates. Scientific report, 2019:9(1). | 3.8 |

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| 54. | Sonti R; Bhandari, Vasundhra; Dandasena, Debabrata; Murthy, Shweta; Sharma, Paresh; Genetic profiling reveals high allelic diversity, heterozygosity and antigenic diversity in the clinical isolates of the Theileria annulata from India. Frontiers in Physiology, 2019; 10:673. | 3.2 |
| 55. | Praveen Chapala; Adduru Jyothirmayi; Vasundhra Bhandari; Joydip Joardar, Swati Acharyya (2018). Effect of alloying elements on the microstructure, coefficient of friction, in-vitro corrosion and antibacterial nature of selected Ti-Nb alloys. Applied Surface Science, 2019; 469, 617-623. | 6.78 |
| 56. | Umarani Brahma, Richa Kothari, Paresh Sharma, Vasundhra Bhandari. Antimicrobial and anti-biofilm activity of hexadentated macrocyclic complexes of copper (II) derived from thiosemicarbazide against Staphylococcus aureus. Scientific Reports, 8(1):8050, 2018. | 3.88 |
| 57. | Mahato S, Mistry HU, Chakraborty S, Sharma P, Saravanan R, Bhandari V. Identification of Variable Traits among the Methicillin Resistant and Sensitive Coagulase Negative Staphylococci in Milk Samples from Mastitic Cows in India. Front Microbiol. 2017; 8:1446. | 7.7 |
| 58. | George N, Bhandari V*, Sharma P. Phylogenetic relationship and genotypic variability in Anaplasma marginale strains causing anaplasmosis in India. Infect Genet Evol. 2017; 48:71-75, (*Co-Corresponding author). | 4.4 |
| 59. | Chakraborty S, Roy S, Mistry HU, Murthy S, George N, Bhandari V* and Sharma P*(senior authors). Potential Sabotage of Host Cell Physiology by Apicomplexan Parasites for Their Survival Benefits. Front. Immunol. 2017: 8:1261. | 5.7 |
| 60. | Mistry H, Sharma P, Mahato S, Saravanan R, Kumar PA, Bhandari V. Prevalence and Characterization of Oxacillin Susceptible mecA-Positive Clinical Isolates of Staphylococcus aureus Causing Bovine Mastitis in India. PLoS One. 2016; 11(9): e0162256. | 2.9 |
| 61. | Paresh Sharma, D Peddi Reddy, Neena George, Ramya Gadicherla, P.Anand Kumar, Vasundhra Bhandari. Draft genome of Staphylococcus aureus strain isolated from a clinical mastitis infected cattle. Genome Announc. 2015; 3(4). pii: e00914-15. | 2.9 |
| 62. | Vasundhra Bhandari#, Shalini Chakraborty, Umarani Brahma. (#corresponding author). Identification of Anti-Staphylococcal and Anti-Biofilm Compounds from the Pathogen Box. Front Cell Infect Microbiol. | 4.6 |
| 63. | Bhandari V, Sundar S, Dujardin JC, Salotra P. Elucidation of cellular mechanisms involved in experimental paromomycin resistance in Leishmania donovani. Antimicrob. Agents. Chemother. 2014; 58(5):2580-5. | 2 |
| 64. | Vasundhra Bhandari, Dhiraj Kumar, Sandeep Verma, G Srividya, NS Negi, Ruchi Singh, Poonam Salotra. Increased parasite surface antigen-2 expression in clinical isolates of Leishmania donovani augments antimony resistance. Biochem Biophys Res Commun. 2013; 440(4):646-51. | 3.58 |
| 65. | Bhandari V, Kulshrestha A, Deep DK, Stark O, Prajapati VK, Ramesh V, Sundar S, Schonian G, Dujardin JC, Salotra P. Drug susceptibility in Leishmania isolates following miltefosine treatment in cases of visceral leishmaniasis and post kala-azar dermal leishmaniasis. PLoS Negl Trop Dis. 2012; 6(5):e1657. | 3.4 |
| 66. | George N*, Bhandari V*, Reddy DP, Sharma P. Molecular and Phylogenetic analysis revealed new genotypes of Theileria annulata parasites from India. Parasit Vectors. 2015; 8:468. (* Shared Authorship). | 3.87 |

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| 67. | George N*, Bhandari V*, Reddy DP, Sharma P. Emergence of new genotype and diversity of Theileria orientalis parasites from bovines in India. Infect Genet Evol. 2015; 36:27-34. (* Shared Authorship). | 4.4 |
| 68. | Dandasena D*, Bhandari V, Sreenivasamurthy GS, Murthy S, Roy S, Bhanot V, Arora J, Singh S, Sharma P. A Real-Time PCR based assay for determining parasite to host ratio and parasitaemia in the clinical samples of Bovine Theileriosis. Scientific Reports, 2018. | 3.88 |
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| 70. | Verma A, Bhandari V, Deep DK, Sundar S, Dujardin JC, Singh R, Salotra P. Transcriptome profiling identifies genes/pathways associated with experimental resistance to paromomycin in Leishmania donovani. Int J Parasitol Drugs Drug Resist. 2017; 7(3):370-377. | 4.1 |
| 71. | Deep DK, Singh R, Bhandari V, Verma A, Sharma V, Wajid S, Sundar S, Ramesh V, Dujardin JC, Salotra P. Increased miltefosine tolerance in clinical isolates of Leishmania donovani is associated with reduced drug accumulation, increased infectivity and resistance to oxidative stress. PLoS Negl Trop Dis. 2017; 11(6):e0005641. | 3.8 |
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| 74. | Kulshrestha A, Bhandari V, Mukhopadhyay R, V. Ramesh, Sundar S, Maes L, Dujardin J C, Roy S, Salotra P. Validation of a simple resazurin based promastigote assay for the routine monitoring of Miltefosine susceptibility in clinical isolates of Leishmania donovani. Parasitol Res. 2013; 112:825-828. | 2.29 |
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| 76. | Kumar D$, Singh R$, Bhandari V, Kulshrestha A, Negi NS, Salotra P ($ Authors Contributed Equally). Biomarkers of antimony resistance: need for expression analysis of multiple genes to distinguish resistance phenotype in clinical isolates of Leishmania donovani. Parasitol Res. 2012; 111(1): 223-30. | 2.29 |
| 77. | Subba Raju BV, Gurumurthy S, Kuhls K, Bhandari V, Schnonian G, Salotra P. Genetic typing reveals monomorphism between antimony sensitive and resistant Leishmania donovani isolates from visceral leishmaniasis or post kala-azar dermal leishmaniasis cases in India. Parasitol Res. 2012; 111(4): 1559-68. | 2.29 |