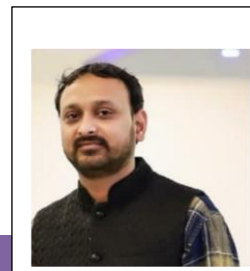


**RKDF University, Bhopal**  
**Faculty Profile**



Basic Information				
<b>Name</b>	<b>Dr. Arpit Bhargava</b>			
<b>Date of Birth</b>	<b>24/10/1981</b>			
<b>Designation</b>	<b>Associate Professor</b>			
<b>Department</b>	<b>Science</b>			
<b>Experience</b>	<b>15 Yrs</b>			
<b>Email ID</b>	<b>arpitbhargava08@gmail.com</b>			
<b>Contact No</b>	<b>8305393058</b>			
Educational Qualifications				
Description	Year	%	University	
<b>B.Sc.</b>	2003	64	<b>Barkatullah University</b>	
<b>M.Sc. (Biotechnology)</b>	2006	72.5	<b>Barkatullah University</b>	
<b>M. Tech (Biotechnology)</b>	2008	78.5	<b>Rajiv Gandhi Proudyogiki Vishwavidyalaya</b>	
<b>Ph. D. (Science)</b>	2014	NA	<b>Tata Memorial Centre / Dr. H.S. Gour Central University</b>	
<b>Post Doctorate</b> <ul style="list-style-type: none"> <li>• Nanomission PDF – Department of Science &amp; Technology (DST), Govt. of India.</li> <li>• Research Associate – Indian Council of Medical Research, Govt. of India.</li> </ul>	2017	-	<b>ICMR-National Institute for Research in Environmental Health (NIREH), Bhopal</b>	
	2019	-		
Experience Detail				
Experience (Teaching/Research)	Designation	Duration		Name of Institute/University
		From	To	
<b>Teaching/Research</b>	Associate Professor	16.07.2022	Till date	<b>RKDF University, Bhopal</b>
<b>Research</b>	Research Associate	01.04.2019	31.03.2022	<b>ICMR-National Institute for Research in Environmental Health (NIREH), Bhopal</b>
<b>Research</b>	Nanomission-Post Doctoral Fellow	27.02.2017	26.02.2019	<b>ICMR-National Institute for Research in Environmental Health (NIREH), Bhopal</b>
<b>Teaching/Research</b>	Senior Research	01.10.2015	31.09.2015	<b>Dr. H. S. Gour Central University, Sagar</b>

	Fellow			
<b>Research</b>	Senior Research Fellow	16.06.2010	31.03.2012	<b>Tata Memorial Centre, Mumbai</b>
<b>Research</b>	Junior Research Associate	09.02.2009	04.06.2010	<b>ICMR-Bhopal Memorial Hospital &amp; Research Centre, Bhopal</b>
<b>Research</b>	Lab-Technician	27.12.2007	08.02.2009	<b>ICMR-Bhopal Memorial Hospital &amp; Research Centre, Bhopal</b>
<b>Publications</b>				
<b>No. of Papers Published (Annexure 1)</b>		<b>64</b>		
<b>No. of Books Published</b>		<b>2</b>		
<b>Books Chapters Published (Provide print of 1<sup>st</sup> Page of Book)</b>		<b>4</b>		
<b>No. of Patents Published/Grant</b>		<b>5</b>		
<b>Ph. D/M. Phil Project supervised</b>				
<b>Research Program</b>		<b>Award</b>	<b>Under Supervision</b>	<b>Name of University</b>
<b>Ph. D (Provide detail i.e. name, title etc)</b>		0	05	<b>RKDF University Bhopal</b>
<b>M. Phil</b>		0	0	-
<b>PG Thesis/Dissertation</b>		21	10	<b>RKDF University Bhopal</b>
<b>Area of Expertise (100 words)</b>				
Cellular Cancer Vaccines, Nano-biotechnology, Carbon dioxide Sequestration				
<b>Award and Achievement</b>				
<b>Name of Award</b>		<b>Description (With certified of Copy award)</b>		
<b>National</b>		<ul style="list-style-type: none"> <li>• Prof. S. S. Guraya Young Scientist Award from ISSRF at International conference organized by ICMR at AIIMS New Delhi.</li> <li>• Post Doctoral Fellowship – Nanoscience &amp; Technology for the session 2017-2019 by DST- Nanomission, JNCASR, Bengaluru.</li> <li>• Awarded Best Debut from Ram Krishna Dharmarth Foundation University, Bhopal in the session 2022-23.</li> <li>• Awarded Best Academician from Ram Krishna Dharmarth Foundation University, Bhopal in the session 2022-23.</li> </ul>		

<ul style="list-style-type: none"> <li>• Awarded Research Associateship for the session 2019-2022 by ICMR New Delhi.</li> <li>• Awarded Senior Research Fellowship for the session 2010-2011 by CSIR New Delhi.</li> <li>• Awarded Extended Senior Research Fellowship for the session 2014-2015 by CSIR New Delhi.</li> <li>• Best Oral Presentation at NCETB – 2015, Sagar jointly organized by Indian Science Congress, Kolkata.</li> </ul>		
<b>International</b>	<b>Nil</b>	
<b>Conference/Seminar/Workshops/FDP</b>		
<b>Description</b>	<b>No.</b>	
Conference/Seminar presentation	<b>p a p e r</b>	<b>21</b>
Conference/Seminar attended/ organized	<b>06</b>	
Work shop attended/ organized	<b>02</b>	
<b>FDP Attended/ organized</b>		
<b>Research Project</b>		
<b>Name of Project</b>	<b>Funding Agencies</b>	<b>Amount (INR in Lakh)</b>
Design of a novel nano salt based chulha with potential of thermal storage and electricity generation	Ayushmati Education & Social Society, Bhopal	<b>2.5</b>
Design & Development of space heating assembly (Bukhari) having potential of simulatanous electricity generation	Ayushmati Education & Social Society, Bhopal	<b>3.0</b>
Assessment of a novel Nanosensoric based approach for risk assessment of cardiovascular diseases	Ayushmati Education & Social Society, Bhopal	<b>3.5</b>

- **Any other Achievement**

#### **Invited/Oral Lectures**

- 2nd National workshop on Flow Cytometry" on 09/12/2022 at ICMR-National Institute for Research in Environmental Health, Bhopal.
- International Symposium on Reproductive Biology and Comparative Endocrinology (ISRBCE-2015), February 5-27 2015, Banaras Hindu University, Varanasi, India.
- National Conference on Emerging Trends in Biotechnology (NETB-2015). Indian Science Congress Association Centenary Celebration Conference on Science for Shaping the Future of India, March 28- 30, 2015, Dr. H. S. Gour Central University, Sagar, India.

- National Conference on Reproductive Health and Challenges (NCRHC-2015). Indian Society for Study in Reproduction and Fertility, February 11-13, 2015, IIS University, Jaipur, India.

### **Technical Expertise & Skills**

- Independently handling Flow Cytometer (Attune NxT, Thermo Fischer) at Department of Molecular Biology. ICMR-NIREH, Bhopal, India from 2017 till 2022.
- Independently handled Flow Cytometer (BD FACS Aria III) at Department of Biotechnology, Dr. H. S. Gour Central University, Sagar, India from October 1 2014 till September 30, 2015.
- Independently handled Real Time PCR and COBAS Amplicor Analyzer for molecular diagnosis of HBV, HCV, HIV, WNV, EBV, HSV, EntV and MTB at Department of Research, BMHRC, Bhopal from December 2007 to June 2009.
- Other techniques performed:  
Genomics & Proteomics: DNA/RNA Isolation, Quantification, Amplification (PCR (Genomic & RT), Real Time PCR), Electrophoresis, DNA/Protein Electrophoresis, Densitometric Analysis and Gel Documentation Immunology: Immuno-Phenotyping, Immunoassays, Immuno-Affinity Chromatography.

### **Workshops/Industry Meets attended**

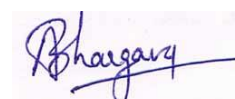
- DST – Pulse sponsored workshop on DNA Sequencer & Real Time PCR at Department of Research, Dr. H.S. Gour Central University, Sagar, India
- WHO sponsored workshop on Laboratory Bio-safety and Bio-security at HSADL, IVRI, Bhopal.
- MedBio-2009, Third industry Academia Meet at Department of Research, BMHRC, Bhopal.
- MedBio-2008, Third industry Academia Meet at Department of Research, BMHRC, Bhopal.

### **Memberships**

- Life Member: Indian Science Congress Association, Kolkata, India.
- Life Member: Indian Society for the study in Reproduction and Fertility, Jaipur, India.

### **Additional Academic Responsibilities:**

- Member Internal Quality Assurance Cell (IQAC)
- Coordinator: Utsah Portal of AISHE (UGC)
- Member: Plagiarism Checker Committee
- Member: MoU Committee



## List of Publications

1. **A BHARGAVA**, DK Mishra, R Tiwari, NK Lohiya, IY Goryacheva, PK Mishra. Immune cell engineering: opportunities in lung cancer therapeutics. *Drug Delivery & Translational Research* (Springer Nature, Switzerland) 2020;10.1007/s13346-020-00719-2. DOI: [10.1007/s13346-020-00719-2](https://doi.org/10.1007/s13346-020-00719-2) [Impact factor: 5.4]
2. **A BHARGAVA**, R Kumari, S Khare, R Shandilya, PK Gupta, R Tiwari, A Rahman, K Chaudhury, IY Goryacheva, PK Mishra. Mapping the mitochondrial regulation of epigenetic modifications in association with carcinogenic and noncarcinogenic polycyclic aromatic hydrocarbon exposure [published online ahead of print, 2020 Jun 26]. *International Journal of Toxicology* 2020;1091581820932875. DOI: [10.1177/1091581820932875](https://doi.org/10.1177/1091581820932875). [Impact factor: 2.2]
3. **A BHARGAVA**, A Shukla, N Bunkar, R Shandilya, L Lodhi, R Kumari, PK Gupta, A Rahman, K Chaudhury, R Tiwari, IY Goryacheva, PK Mishra. Exposure to ultrafine particulate matter induces NF- $\kappa$ B mediated epigenetic modifications. *Environmental Pollution* (Elsevier, USA) 252(Pt A): 39-50; 2019. DOI: [10.1016/j.envpol.2019.05.065](https://doi.org/10.1016/j.envpol.2019.05.065) [Impact factor: 8.9]
4. **A BHARGAVA**, RK Srivastava, DK Mishra, RR Tiwari, RS Sharma, PK Mishra. Dendritic cell engineering for selective targeting of female reproductive tract cancers. *Indian Journal of Medical Research* (IJMR, India) 148 (Suppl):S50-S63; 2018. DOI: [10.4103/ijmr.IJMR\\_224\\_18](https://doi.org/10.4103/ijmr.IJMR_224_18) [Impact factor: 4.2]
5. **A BHARGAVA**, S Tamrakar, A Aglawe, H Lad, RK Srivastava, DK Mishra, R Tiwari, K Chaudhury, IY Goryacheva, PK Mishra. Ultrafine particulate matter impairs mitochondrial redox homeostasis and activates phosphatidylinositol 3-kinase mediated DNA damage responses in lymphocytes. *Environmental Pollution* (Elsevier, USA) 234: 406-419; 2018. DOI: [10.1016/j.envpol.2017.11.093](https://doi.org/10.1016/j.envpol.2017.11.093) [Impact factor: 8.9] (API Score =17.5)
6. **A BHARGAVA**, N Pathak, S Seshadri, N Bunkar, SK Jain, DM Kumar, NK Lohiya, PK Mishra. Pre-Clinical Validation of Mito-targeted nano-engineered flavonoids isolated from selaginella bryopteris (sanjeevani) as a novel cancer prevention strategy. *Anticancer Agents in Medicinal Chemistry* (Bentham, UK) 18(13):1860-1874; 2018. DOI: [10.2174/1871520618666171229223919](https://doi.org/10.2174/1871520618666171229223919). [Impact factor: 2.8] (API Score =14)
7. **A BHARGAVA**, N Pathak, RS Sharma, NK Lohiya, PK Mishra. Environmental impact on reproductive health: can biomarkers offer any help? *Journal of*

*Reproduction & Infertility* 18(3): 336-340; 2017.  
<https://pmc.ncbi.nlm.nih.gov/articles/PMC5641444/>

8. **A BHARGAVA**, N Bunkar, A Aglawe, KC Pandey, R Tiwari, K Chaudhury, IY Goryacheva, PK Mishra. Epigenetic biomarkers for risk assessment of particulate matter associated lung cancer. *Current Drug Targets* (Bentham, UK) 19(10):1127-1147; 2018 DOI: [10.2174/1389450118666170911114342](https://doi.org/10.2174/1389450118666170911114342) **[Impact factor: 3.2].**
9. **A. BHARGAVA**, N. K. Khare, N. Bunkar, K. Chaudhury, KC Pandey, SK Jain, PK Mishra. Cell-free circulating epigenomic signatures: non-invasive biomarker for cardiovascular and other age-related chronic diseases. *Current Pharmaceutical Design* (Bentham, UK) 23: 1175- 1187; 2017 **[Impact factor: 3.11]. (API Score =14)**
10. **A. BHARGAVA**, DK Mishra, SK Jain, RK Srivastava, NK Lohiya, PK Mishra. Comparative assessment of lipid based nano-carrier systems for dendritic cell based targeting of tumor reinitiating cells in gynecological cancers. *Molecular Immunology* (Elsevier, USA) 79: 98-112; 2016. **[Impact factor: 3.6]. (API Score =14)**
11. **A. BHARGAVA**, N. K. Khare, N. Bunkar, S. Lenka, P. K. Mishra Role of mitochondrial oxidative stress on lymphocyte homeostasis in patients diagnosed with extra-pulmonary tuberculosis. *Cell Biology International* (Wiley, USA): 40: 166-76; 2016. **[Impact factor: 3.61]. (API Score =14)**
12. **A. BHARGAVA**, D Mishra, S. Banerjee, P. K. Mishra. Nano-engineered strategies to optimize dendritic cells for gastrointestinal tumor immunotherapy: from biology to translational medicine. *Nanomedicine (Lond.)* (Future Medicine, USA): 9: 2187–2202; 2014 **[Impact factor: 5.5]. (API Score =17.5)**
13. **A. BHARGAVA**, D Mishra, S. Khan, S. Banerjee, P. K. Mishra. Assessment of surface modified solid lipid nanoparticles as a tool to overcome immune tolerance in dendritic cell based cancer vaccination. *Nanomedicine (Lond.)* (Future Medicine, USA): 8; 1067-1084; 2013.**[Impact factor: 5.5]. (API Score =17.5)**
14. **A. BHARGAVA**, G. V. Raghuram, N. Pathak, S. Varshney, S. Jatawa, D. Jain, P. K. Mishra. Occult hepatitis C virus elicits mitochondrial oxidative stress in lymphocytes and triggers PI3 kinase mediated DNA damage response. *Free Radical Biology & Medicine* (Elsevier, USA): 51: 1806-14: 2011. **[Impact factor: 7.4] (API Score =17.5)**
15. **A. BHARGAVA**, Mishra D, Banerjee S, Mishra PK. Engineered dendritic cells for gastrointestinal tumor immunotherapy: opportunities in translational research. *Journal of Drug Targeting* (Informa Healthcare, UK) 21: 126-36: 2013. **[Impact factor: 4.5]. (API Score =14)**
16. **A. BHARGAVA**, S. Khan, H. Panwar, N. Pathak, R. P. Punde, S. Varshney, P. K. Mishra. Occult Hepatitis B virus infection with low viremia induces DNA damage, apoptosis and oxidative stress in peripheral blood lymphocytes. *Virus Research* (Elsevier, Netherlands): 153; 143-150; 2010. **[Impact factor: 5]. (API Score =17.5)**
17. **A. BHARGAVA**, D Mishra, S. Banerjee, P. K. Mishra. Dendritic cell engineering for cancer immunotherapy: a translational perspective. *Immunotherapy* (Future Medicine, USA): 4: 703-18: 2012 **[Impact factor: 2.8]. (API Score =14)**

18. **A. BHARGAVA**, S. Varshney, M. Shrivastava, P. K. Mishra. Molecular detection of window phase hepatitis C virus infection in voluntary blood donors and health care workers in a cohort from Central India. *Indian Journal of Community Medicine* (Medknow, India): 39; 51-52; 2014. **[Impact factor: 0.9]. (API Score =10.5)**
19. **A. BHARGAVA**, S. Dabadghao, R. P. Punde, P. Desikan, N. Pathak, A. Jain, K. K. Maudar, P. K. Mishra. Status of inflammatory biomarkers in the population that survived the Bhopal Gas Tragedy: A Study after Two Decades. *Industrial Health* (J-Stage, Japan): 48; 204-208; 2010. **[Impact factor: 2.0]. (API Score =14)**
20. **A. BHARGAVA**, R. P. Punde, S. Varshney, N. Pathak, P. K. Mishra. A novel FRET probe based approach for identification, quantification and characterization of occult hepatitis C virus infections in patients with cryptogenic cirrhosis. *Indian Journal of Pathology & Microbiology* (Medknow, India): 54; 420-1; 2011. **[Impact factor: 0.67]. (API Score =10.5)**
21. Ratre P, Nazeer N, **Bhargava A**, Thareja S, Tiwari R, Raghuwanshi VS, Mishra PK. Design and Fabrication of a Nanobiosensor for the Detection of Cell-Free Circulating miRNAs-LncRNAs-mRNAs Triad Grid. *ACS Omega*. 2023 Oct 18;8(43):40677-40684. DOI: [10.1021/acsomega.3c05718](https://doi.org/10.1021/acsomega.3c05718) PMID: 37953834; PMCID: PMC10637347.
22. Ratre P, Chauhan P, **Bhargava A**, Tiwari R, Thareja S, Srivastava RK, Mishra PK. Nano-engineered vitamins as a potential epigenetic modifier against environmental air pollutants. *Rev Environ Health*. 2022 Jun 21. DOI: [10.1016/j.envpol.2020.116242](https://doi.org/10.1016/j.envpol.2020.116242). PMID: 35724323.
23. Mishra PK, Kumari R, **Bhargava A**, Bunkar N, Chauhan P, Tiwari R, Shandilya R, Srivastava RK, Singh RD. Prenatal exposure to environmental pro-oxidants induces mitochondria-mediated epigenetic changes: a cross-sectional pilot study. *Environ Sci Pollut Res Int*. 2022 May 28. doi: 10.1007/s11356-022-21059-3. Epub ahead of print. PMID: 35633452. **(API Score =1.5)**
24. R Shandilya, R Kumari, N Bunkar, **A. BHARGAVA**, K Chaudhury, IY Goryacheva, PK Mishra. A photonic dual nano-hybrid assay for detection of cell-free circulating mitochondrial DNA. *J Pharm Biomed Anal*. 2021 Oct 26;208:114441. DOI: [10.1016/j.jpba.2021.114441](https://doi.org/10.1016/j.jpba.2021.114441). Epub ahead of print. PMID: 34749106. **[Impact factor: 3.4]. (API Score =6)**
25. S Ranjan, S Jain, **A. BHARGAVA**, R Shandilya, RK Srivastava, PK Mishra. Lateral flow assay-based detection of long non-coding RNAs: A point-of-care platform for cancer diagnosis. *J Pharm Biomed Anal*. 2021 Sep 10;204:114285. doi: 10.1016/j.jpba.2021.114285. Epub 2021 Jul 27. PMID: 34333453. **[Impact factor: 3.4]. (API Score =6)**
26. R Shandilya, R Kumari, RD Singh, A Chouksey, **A. BHARGAVA**, IY Goryacheva, PK Mishra. Gold based nano-photonic approach for point-of-care detection of circulating long non-coding RNAs. *Nanomedicine*. 2021 Aug;36:102413. doi: 10.1016/j.nano.2021.102413. Epub 2021 Jun 17. PMID: 34147663. **[Impact factor: 5.4]. (API Score =7.5)**
27. R Shandilya, S Ranjan, S Khare, **A. BHARGAVA**, IY Goryacheva, PK Mishra. Point-of-care diagnostics approaches for detection of lung cancer-associated circulating miRNAs. *Drug Discov Today*. 2021 Jun;26(6):1501-1509. doi:

- 10.1016/j.drudis.2021.02.023. Epub 2021 Feb 26. PMID: 33647439. **[Impact factor:7.4]. (API Score =7.5)**
28. J Sharma, i K Parsa, P Raghuwanshi, SA Ali, V Tiwari, **A. BHARGAVA**, PK Mishra. Emerging role of mitochondria in airborne particulate matter-induced immunotoxicity. *Environ Pollut.* 2021 Feb 1;270:116242. doi: 10.1016/j.envpol.2020.116242. Epub 2020 Dec 9. PMID: 33321436. **[Impact factor: 8.9]. (API Score =7.5)**
29. R Shandilya, N Bunkar, R Kumari, **A. BHARGAVA**, K Chaudhury, IY Goryacheva, PK Mishra. Immuno- cytometric detection of circulating cell free methylated DNA, post-translationally modified histones and micro RNAs using semi-conducting nanocrystals. *Talanta.* 2021 Jan 15;222:121516. doi: 10.1016/j.talanta.2020.121516. Epub 2020 Aug 13. PMID: 33167226. **[Impact factor: 6.1]. (API Score =7.5)**
30. N Bunkar, J Sharma, A Chouksey, R Kumari, PK Gupta, R Tiwari, L Lodhi, RK Srivastava, **A. BHARGAVA**, PK Mishra. Clostridium perfringens phospholipase C impairs innate immune response by inducing integrated stress response and mitochondrial-induced epigenetic modifications. *Cell Signal.* 2020 Nov;75:109776. doi: 10.1016/j.cellsig.2020.109776. Epub 2020 Sep 8. PMID: 32916276. **[Impact factor: 4.8]. (API Score =6)**
31. J Sharma, R Kumari, **A. BHARGAVA**, R Tiwari, PK Mishra. Mitochondrial-induced Epigenetic Modifications: From Biology to Clinical Translation. *Curr Pharm Des.* 2021;27(2):159-176. DOI: [10.2174/1381612826666200826165735](https://doi.org/10.2174/1381612826666200826165735). PMID: 32851956. **[Impact factor: 3.11]. (API Score =6)**
32. R Shandilya, AM Sobolev, N Bunkar, **A BHARGAVA**, IY Goryacheva, PK Mishra. Quantum dot nanoconjugates for immuno-detection of circulating cell-free miRNAs. *Talanta (Elsevier, USA)* 2020 Feb 1;208:120486. **[Impact factor: 6.1]. (API Score =7.5)**
33. P Gupta, **A BHARGAVA**, R Kumari, L Lodhi, R Tiwari, PK Gupta, N Bunkar, R Samarth, PK Mishra. Impairment of Mitochondrial-Nuclear Cross Talk in Lymphocytes Exposed to Landfill Leachate. *Environmental Health Insights.* 2019 Apr 2;13:1178630219839013. **[Impact factor: 2.7]. (API Score =6)**
34. N Bunkar, R Shandilya, **A BHARGAVA**, RM Samarth, R Tiwari, DK Mishra, RK Srivastava, RS Sharma, NK Lohiya, PK Mishra. Nano-engineered flavonoids for cancer protection. *Frontiers in Biosciences (Landmark Ed).* 2019 Mar 1;24:1097-1157. DOI: [10.2741/4771](https://doi.org/10.2741/4771) **[Impact factor: 2.747]**
35. R Shandilya, **A BHARGAVA**, N Bunkar, R Tiwari, IY Goryacheva, PK Mishra. Nanobiosensors: Point-of-care approaches for cancer diagnostics. *Biosensors & Bioelectronics (Elsevier, USA)* 2019 Apr 1;130:147-165. **[Impact factor: 12.6] (API Score =7.5)**
36. RD Singh, R Shandilya, **A BHARGAVA**, R Kumar, R Tiwari, K Chaudhury, RK Srivastava, IY Goryacheva, PK Mishra. Quantum Dot Based Nano-Biosensors for Detection of Circulating Cell Free miRNAs in Lung Carcinogenesis: From Biology to Clinical Translation. *Frontiers in Genetics* 2018 Dec 6;9:616. **[Impact factor: 3.7] (API Score =6)**
37. A Shukla, N Bunkar, R Kumar, **A BHARGAVA**, R Tiwari, K Chaudhury, IY Goryacheva, PK Mishra. Air pollution associated epigenetic modifications: Transgenerational inheritance and underlying molecular mechanisms. *Science*

of Total Environment 2019 Mar 15;656:760-777. [Impact factor: 9.8] (API Score =7.5)

38. N Bunkar, **A. BHARGAVA**, K Chaudhury, RS Sharma, NK Lohiya, PK Mishra. Fetal nucleic acids in maternal plasma: from biology to clinical translation. *Front Biosci (Landmark Ed)*. 2018 Jan 1;23:397-431. [Impact factor: 2.747] (API Score =6)
39. N. Bunkar, **A. BHARGAVA**, N. K. Khare, P. K. Mishra. Mitochondrial anomalies: driver to age associated degenerative human ailments. *Front Biosci (Landmark Ed)*.; 21: 769-93; 2016. [Impact factor: 2.747] (API Score =6)
40. D. K. Mishra, V. K. Dhote, **A. BHARGAVA**, N. Balekar, D. K. Jain, K. Dhote, P. K. Mishra. Amorphous Solid Dispersion Technique For Improved Drug Delivery: Basics to Clinical Applications. *Drug Delivery and Translational Research* (Springer, USA). 5(6):552-65; 2015. [Impact factor: 5.4] (API Score =7.5)
41. P. K. Mishra, G. V. Raghuram, N. Bunkar, **A. BHARGAVA**, N. K. Khare. Molecular Biodosimetry for carcinogenic risk assessment in survivors of Bhopal gas tragedy. *International Journal of Occupational Medicine and Environmental Health* (Versita, Poland): 8; 921-39. 2015. [Impact factor: 1.2]. (API Score = 4.5)
42. P. K. Mishra, N. Bunkar, G. V. Raghuram, N. K. Khare, N. Pathak, **A. BHARGAVA**. Epigenetic dimension of oxygen radical injury in spermatogonial epithelial cells. *Reproductive Toxicology* (Elsevier, USA): 52:40-56; 2015. [Impact factor: 3.3]. (API Score =6)
43. N. Pathak, S. Khan, **A. BHARGAVA**, G. V. Raghuram, D. Jain, H. Panwar, R. M. Samarth, S. K. Jain, K. K. Maudar, D. K. Mishra, P. K. Mishra. Cancer chemopreventive effects of the flavonoid-rich fraction isolated from papaw seeds. *Nutrition and Cancer* (Taylor & Francis, USA): 66; 857-871; 2014. [Impact factor: 2.7]. (API Score =6)
44. H Panwar, D Jain, S Khan, N Pathak, G.V Raghuram, **A. BHARGAVA**, S Banerjee, P.K. Mishra. Imbalance of mitochondrial-nuclear cross talk in isocyanate mediated pulmonary endothelial cell dysfunction. *Redox Biology* (Elsevier, U.S.A.). 1: 163–171: 2013. [Impact factor: 11.4]. (API Score =17.5)
45. PK Mishra, GV Raghuram, SK Jatawa, **A. BHARGAVA**, S Varshney. Frequency of genetic alterations observed in cell cycle regulatory proteins and microsatellite instability in gallbladder adenocarcinoma: a translational perspective. *Asian Pac J Cancer Prev*. 12: 573-4: 2011. [Impact factor: 0.65]. (API Score =3)
46. K. K. Maudar, P. Gandhi, P. K. Mishra, S. Varshney, R. Punde, **A. BHARGAVA**. Novel Approach for Quantification of Hepatitis C Virus in Liver Cirrhosis Using Real-Time Reverse Transcriptase PCR. *Journal of Gastrointestinal Surgery* 16(1):142-6; 2012 [Impact factor: 3.2]. (API Score =6)
47. P. K. Mishra, **A. BHARGAVA**, G. V. Raghuram, S. Gupta, S. Tiwari, R. Upadhyaya, S. K. Jain, K. K. Maudar. Inflammatory response to isocyanates and onset of genomic instability in cultured human lung fibroblasts. *Genetics & Molecular Research* (FUNPEC-RP, USA): 8; 129- 143; 2009. [Impact factor: 1.18]. (API Score =4.5)
48. P. K. Mishra, G. V. Raghuram, **A. BHARGAVA**, R. P. Punde, S. Varshney, K. K. Maudar. Molecular detection of Mycobacterium tuberculosis in formalin-fixed, paraffin-embedded tissues and biopsies of gastrointestinal specimens using real-time polymerase chain reaction system. *Turkish Journal of*

*Gastroenterology* (TJG Press, Turkey): 21; 129-134: 2010. **[Impact factor: 1.2]. (API Score =4.5)**

49. P. K. Mishra, **A. BHARGAVA**, S. Khan, N. Pathak, R. P. Punde, S. Varshney. Prevalence of HCV genotypes and significance of Th1/Th2 cytokines in response to combination therapy: a study from central India. *Indian Journal of Medical Microbiology* (Medknow, India): 28; 358-367: 2010. **[Impact factor: 1.6]. (API Score =4.5)**
50. P. K. Mishra, **A. BHARGAVA**, R. P. Punde, P. Desikan, A. Jain, S. Varshney, K. K. Maudar. Molecular identification and immunological characterization of gastrointestinal tuberculosis infections in a central Indian cohort. *Indian Journal of Clinical Biochemistry* (Springer, India): 25; 68-73: 2010. **(API Score =1.5)**
51. P. K. Mishra, **A. BHARGAVA**, P. Vashistha, S. Varshney, K. K. Maudar. Mediators of the immune system and their possible role in pathogenesis of chronic hepatitis B and C viral infections. *Asia Pacific Journal of Molecular Biology & Biotechnology (MSMBB, Malasiya)*, 18; 341- 349: 2010. **(API Score =1.5)**
52. P. K. Mishra, **A. BHARGAVA**, N. Pathak, P. Desikan, R. P. Punde, S. Varshney, R. Shrivastava, A. Jain. Molecular surveillance of hepatitis and tuberculosis infection in a cohort exposed to methyl isocyanate. *International Journal of Occupational Medicine and Environmental Health* (Versita, Poland): 24; 94-101: 2011. **[Impact factor: 2]. (API Score =4.5)**
53. R. P. Punde, **A. BHARGAVA**, S. Varshney, N. Pathak, M. Shrivastava, P. K. Mishra. Ascertaining the prevalence of occult hepatitis B virus infections in voluntary blood donors: a study from central India. *Indian Journal of Pathology & Microbiology* (Medknow, India): 54; 408: 2011. **[Impact factor: 0.67]. (API Score =3)**
54. P. K. Mishra, G. V. Raghuram, **A. BHARGAVA**, A. K. Ahirwar, R. M. Samarth, R. Upadhyaya, S. K. Jain, N. Pathak. *In vitro* and *in vivo* evaluation of anti-carcinogenic and cancer chemo-preventive potential of a rich- flavonoid fraction from a traditional Indian herb *Selaginella bryopteris*. *British journal of Nutrition* (Cambridge,UK): 106: 1154-68: 2011. **[Impact factor: 3.6]. (API Score =6)**
55. D. Jain, N. Pathak, S. Khan, G. V. Raghuram, **A. BHARGAVA**, R. Samartha, P. K. Mishra. Evaluation of cytotoxicity and anti-cancer potential of Mentha leaf extracts. *International Journal of Toxicology* (SAGE, USA): 30;225-36: 2011. **[Impact factor: 2.28]. (API Score =6)**
56. P. K. Mishra, G. V. Raghuram, **A. BHARGAVA**, N. Pathak. Translational Research in molecular disease diagnosis bridging gap from laboratory to practice. *Journal of Global disease diagnosis*: (Medknow, India) 3:205-6:2011. **[Impact factor: 1.48]. (API Score =4.5)**
57. S. Khan, **A. BHARGAVA**, N. Pathak, K. K. Maudar, S. Varshney, P. K. Mishra. Circulating biomarkers and their possible role in pathogenesis of chronic hepatitis B and C viral infections. *Indian Journal of Clinical Biochemistry* (Springer, India): 26:161–168: 2011. **(API Score =1.5)**
58. S. Khan, G.V. Raghuram, **A. BHARGAVA**, N. Pathak, S. K. Jain, D. H. Chandra, P. K. Mishra. Role and clinical significance of mitochondrial dysfunction in type 2

- diabetes mellitus. *Translational Research* (Elsevier, Netherlands): 158: 344-59: 2011. **[Impact factor: 7.8]. (API Score =7.5)**
59. P. K. Mishra, S. Khan, **A. BHARGAVA**, H. Panwar, S. Banerjee, S. K. Jain, K. K. Maudar. Regulation of isocyanate induced apoptosis, oxidative stress & inflammation in cultured human neutrophils. *Cell Biology & Toxicology* (Springer, Netherlands): 26; 279-291: 2010. **[Impact factor: 2.51]. (API Score =6)**
60. P. K. Mishra, **A. BHARGAVA**, G. V. Raghuram, S. K. Jatawa, N. Akhtar, S. Khan, S. K. Jain, K. K. Maudar. Induction of genomic instability in cultured human colon epithelial cells following exposure to isocyanates. *Cell Biology International* (Elsevier, USA): 33; 675-683: 2009. **[Impact factor: 1.48]. (API Score =4.5)**
61. P. K. Mishra, H. Panwar, **A. BHARGAVA**, G. V. Raghuram, S. K. Jain, S. Banerjee, K. K. Maudar. Isocyanates induces DNA damage, apoptosis, oxidative stress and inflammation in cultured human lymphocytes. *Journal of Biochemical & Molecular Toxicology* (Wiley-Inter Science, USA): 22; 429 – 440: 2008. **[Impact factor: 3.56]. (API Score =6)**
62. S. Varshney, **A. BHARGAVA**, R. P. Punde, P. Vashishtha, K. K. Maudar, P. K. Mishra. Molecular identification & clinical immune characterization of occult HBV infections. *Journal of Hepatology* (Elsevier, UK): 50; S215; 2009. **[Impact factor: 25.7]. (API Score =7.5)**
63. S. Varshney, P.K. Mishra, **A. BHARGAVA**, R.P. Punde, P. Vashishtha, K.K. Maudar. Mediators of immune system and their possible role in pathogenesis of chronic HBV & HCV infections. *Journal of Hepatology* (Elsevier, UK): 50; S215; 2009. **[Impact factor: 25.6] (API Score =7.5)**
64. K. K. Maudar , G. V. Raghuram, **A. BHARGAVA**, P. K. Mishra. Genomic instability in cultured human colon epithelial cells following exposure to environmental stress. *Gastroenterology* (Elsevier, USA): 136 (5S1); 921-22; 2009. **[Impact factor: 29.4]. (API Score =7.5)**
65. K. K. Maudar, **A. BHARGAVA**, S. Varshney, P. K. Mishra. Real time PCR based approach for rapid and specific diagnosis of culture negative gastrointestinal tuberculosis and characterization of its host immunological features. *Gastroenterology* (Elsevier, USA): 138 (5S1), 869; 2010. **[Impact factor: 29.4]. (API Score =7.5)**

**Google Scholar link**

<https://scholar.google.com/citations?user=rEmlDHEAAA&hl=en>