

## RESEARCH PUBLICATIONS

Total publications: 60; Cumulative Impact factor: 256; Total Citations = 1985; h-Index = 20; i10-Index = 36 (as on 8<sup>th</sup> Jan, 2024)

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[https://scholar.google.com/scholar?hl=en&as\\_sdt=0%2C5&q=audesh+bhat&oq=Audesh](https://scholar.google.com/scholar?hl=en&as_sdt=0%2C5&q=audesh+bhat&oq=Audesh)

1. Jegadheeswari Venkadakrishnan, Ganesh Lahane, Arti Dhar, Krishna Moorthi Bhat, Wei Xiao, Tej K. Pandita, and **Audesh Bhat**. Implications of Translesion DNA Synthesis Polymerases on Genomic Stability and Human Health. *Molecular and Cellular Biology* 2023, 13:1-25
2. Bei Zhou, Weiguang He, Jasmine Kaur, Qingxia Cai, **Audesh Bhat**, Qiang Liu. Meta-analysis of abbreviated MRI scanning reveals a high specificity and sensitivity in detecting breast cancer. *Clinical and Experimental Obstetrics & Gynecology*. 2023, 50(6), 115
3. Arti Dhar, Jegadheeswari Venkadakrishnan, Utsa Roy, Sahithi Vedam, Nikita Lalwani, **Audesh Bhat**. A comprehensive review of the novel therapeutic targets for the treatment of diabetic cardiomyopathy. *Therapeutic Advances in Cardiovascular Disease*. 2023;17
4. BollaReddy SriVarsha Reddy, Vandana Krishna, Jaspreet Kalra, Srashti Gopal Goyal, Arti Dhar, **Audesh Bhat**. Review of Contemporary Coronary Artery Stents and Future Developments. *Research Reports*, 2023
5. **Audesh Bhat**, Arti Dhar, Kaushik Desai. Endocrine-related Cardiovascular Diseases: Recent Advances in Diagnosis and Treatment. *Frontiers of Endocrinology*, 2023 (Editorial)
6. Minerva, Amrita Bhat, Sonali Verma, Gresh Chander, Rajeshwer Singh Jamwal, Bhawani Sharma, **Audesh Bhat**, Taruna Katyal, Rakesh Kumar, Ruchi Shah. Cisplatin-based combination therapy for Cancer, *Journal of Cancer Research and Therapeutics*, 2023, 19(3):530-536
7. **Audesh Bhat**, Trupti Ghatage, Sonali Bhan, Ganesh P. Lahane, Arti Dhar, Rakesh Kumar, Raj K. Pandita, Krishna M. Bhat, Kenneth S. Ramos, Tej K. Pandita. Role of Transposable Elements in Genome Stability: Implications for Health and Disease. *International Journal of Molecular Sciences*, 2022, 23, 7802
8. Rakesh Kumar, S Minerva, Ruchi Shah, Amrita Bhat, Sonali Verma, Gresh Chander, GhRasool Bhat, Namrata Thapa, **Audesh Bhat**, Ajay Wakhloo, Ashraf Ganie. Role of genetic, environmental, and hormonal factors in the progression of PCOS: A review. *J Reprod Healthc Med.*, 2022;3:3.
9. Deepika Dasari, **Audesh Bhat**, Sureshbabu Mangali, Trupti Ghatage, Ganesh Panditrao Lahane, Dharmarajan Sriram, and Arti Dhar. Canagliflozin and Dapagliflozin Attenuate Glucolipototoxicity-Induced Oxidative Stress and Apoptosis in Cardiomyocytes via Inhibition of Sodium-Glucose Cotransporter-1. *ACS Pharmacology & Translational Science*. 2022;5(4),216-225.
10. Sharma B, Angurana S, Shah R, Verma S, Bhat A, Bhat GR, Bakshi D, Jamwal RS, Tanwar M, Singh S, **Bhat A**, Vaishnavi S, Kumar R. Genetic association of ARID5B with the risk of colorectal cancer within Jammu and Kashmir, India. *Genes Genet Syst*. 2021 Nov 19. doi: 10.1266/ggs.21-00010.

11. Mushtaq A, Mir U.S, Hunt, C.R, Pandita S, Tantray W.W, **Bhat, A**, Altaf M, Pandita T.K. Role of Histone Methylation in Maintenance of Genome Integrity. *Genes (Basel)*. 2021;12(7):1000.
12. Ulfat Syed Mir, **Audesh Bhat**, Arjamand Mushtaq, Mohammad Altaf and Tej K. Pandita. Role of Histone acetyltransferases MOF and Tip60 in Genome Stability. *DNA Repair (Amst)*. 2021;107:103205.
13. Rajeshwer Singh Jamwal, Nikita Mahajan, Gh. Rasool Bhat, Amrita Bhat, Ruchi Shah, Sonali Verma, Minerva Sharma, Bhawani Sharma, Raies A. Qadri, Rakesh Kumar, **Audesh Bhat**. REV3L single nucleotide variants lead to increased susceptibility towards non-small cell lung cancer in the North Indian population of Jammu and Kashmir. *Cancer Epidemiology*. 2021; 75:102047.
14. Amrita Bhat, Gh Rasool Bhat, Sonali Verma, Ruchi Shah, Ashna Nagpal, Bhanu Sharma, Divya Bakshi, Jyotsna Suri, Supinder Singh, Mukesh Tanwar, Samantha Vaishnavi, **Audesh Bhat**, Rakesh Kumar. Polymorphism in the TP63 gene imparts a potential risk for leukemia in the North Indian population. *African Health Sciences*. 2021; 21(3):1243-1249
15. Mary Priyanka Udumula, Sureshbabu Mangali, Jaspreet Kalra, Deepika Dasari, Srashti Goel, Vandana Krishna, Srivarsha Reddy Bollareddy, Dharamrajan Sriram, Arti Dhar, **Audesh Bhat**. High fructose and streptozotocin induced diabetic impairments are mitigated by Indirubin-3-hydrazone via downregulation of PKR pathway in Wistar rats. *Scientific Reports* 2021;11, 12924.
16. Sureshbabu Mangali, **Audesh Bhat**, Dharmarajan Sriram, Arti Dhar. Inhibition of double stranded RNA dependent protein kinase (PKR) abrogates isoproterenol induced myocardial ischemia in vitro in cultured cardiomyocytes and in vivo in wistar rats. *European Journal of Pharmacology*. 2021; 906:174223.
17. Li L, Mangali S, Kour N, Dasari D, Sharma V, Dhar A, **Bhat A**. Syzygium cumini (Jamun) fruit extracted phytochemicals exert anti-proliferative effect on ovarian cancer cells. *Journal of Cancer Research and Therapeutics*. 2021;17:1547-1551.
18. Trupti Ghatage, Srashti Gopal Goyal, Arti Dhar, **Audesh Bhat**. Novel therapeutics for the treatment of hypertension and its associated complications: peptide- and nonpeptide-based strategies. *Hypertens Res*. 2021;44:740–755.
19. Archana Pandita, **Audesh Bhat\***, Anita Koul, Shashank k.Singh. BCG Vaccination Program mitigates COVID19 Related Mortality: A Reality check. *Curr Pharm Biotechnol*. 2021;2(12):1574-1583.
20. Sharma B, Shah R, Jamwal RS, Verma S, Bhat A, Bhat GR, Bakshi D, Singh S, Angurana S, **Bhat A**, Vaishnavi S, Kumar R. Evaluation of Newly Identified IKZF1 Loci in Colorectal Cancer. *Journal of Cancer Research and Therapeutics*. 2021;17(1):46-50.
21. Kalra J, **Bhat A**, Jadhav KB, Dhar A. Up-regulation of PKR pathway contributes to L-NAME induced hypertension and renal damage. *Heliyon*. 2020;6(11):e05463.
22. Verma S, Sharma I, Sharma V, Bhat A, Shah R, Bhat GR, Sharma B, Bakshi D, Nagpal A, Wakhloo A, **Bhat A**, Kumar R. MassArray analysis of genomic susceptibility variants in ovarian cancer. *Scientific Reports* 2020;10(1):21101.
23. Bhat G.R, Verma S, Bhat A, Shah R, Sethi I, Dar KA, Abrol D, **Bhat A**, Raina R, Kumar R. Genetic variant rs2494938 of LRNF2 gene is associated with non-small cell lung cancer risk in North-Indian population. *3 Biotech*, 2020;10(9):410.
24. Kalra J, Dasari D, **Bhat A**, Mangali S, Goyal SG, Jadhav K, Dhar A. PKR inhibitor imoxin prevents hypertension, endothelial dysfunction and cardiac and vascular remodelling in L-NAME-treated rats. *Life Sciences*, 2020;209:85-98.

25. Mangali S, **Bhat A**, Jadhav K, Kalra J, Sriram D, Venuganti V.V, Dhar A Upregulation of PKR Pathway Mediates Glucolipotoxicity Induced Diabetic Cardiomyopathy In vivo in Wistar Rats and In vitro in Cultured Cardiomyocytes. **Biochemical Pharmacology**, 2020;177:113948.
26. Kalra J, Mangali S, **Bhat A**, Jadhav K, Dhar A. Selective inhibition of PKR improves vascular inflammation and remodelling in high fructose treated primary vascular smooth muscle cells. **Biochim Biophys Acta Mol Basis Dis.**, 2020; 1866:165606.
27. Verma S, Bakshi D, Sharma Va, Sharma I, Shah R, Bhat A, Bhat G, Sharma B, Wakhloo A, Kaul S, Heer V, **Bhat A**, Abrol Deepak, Verma Vijeshwar, and Kumar Rakesh. Genetic Polymorphism of DNAH11 and LRFN2 Genes and Their Association with Ovarian and Breast Cancer in the Populations of Jammu and Kashmir in India. **Int J Gynaecol Obstet.**, 2020;148:118-122.
28. Bhat G.R, Bhat A, Verma S, Sethi I, Shah R, Sharma V, Minerva, Bakshi D, Sharma B, Koul B, Abrol D, **Bhat A**, Kumar R. Genetic variant rs10937405 of TP63 and susceptibility to Non- small cell lung cancer risk in North-Indian population. **Journal of Genetics**, 2019;15:1270-1275.
29. Kalra J, Mangali SB, Dasari D, **Bhat A**, Goyal S, Dhar I, Sriram D, Dhar A. SGLT1 inhibition boon or bane for diabetes associated cardiomyopathy. **Fundam Clin Pharmacol.**, 2019; 34(2):173-188.
30. Verma S, Sharma V, Nagpal A, Bhat A, Bhat GR, Shah R, Wakhloo A, Suri J, Abrol, D, Kaul S, **Bhat A**, Verma V, Kumar R. DNA base excision repair genes variants rs25487 (X-ray repair cross-complementing 1) and rs1052133 (human 8-oxoguanine glycosylase 1) with susceptibility to ovarian cancer in the population of the Jammu region, India. **Journal of Cancer Research and Therapeutics**, 2019; 15(6):1270-1275.
31. Udumula MP, **Bhat A**, Mangali S, Kalra J, Dhar I, Sriram D, Dhar A. Pharmacological evaluation of novel PKR inhibitor indirubin-3-hydrazone in-vitro in cardiac myocytes and in-vivo in wistar rats. **Life Sciences**, 2018; 209:85-96
32. Mangali, S; **Bhat, A**; Udumula, MP; Sriram D; Dhar, I; Dhar, A. Inhibition of protein kinase R protects against palmitic acid-induced inflammation, oxidative stress, and apoptosis through the JNK/NF- $\kappa$ B/NLRP3 pathway in cultured H9C2 cardiomyocytes. **Journal of Cellular Biochemistry**, 2018; 120(3):3651-3663.
33. Kalra J, Mangali SB, **Bhat A**, Dhar I, Udumula MP, Dhar A. Imoxin attenuates high fructose-induced oxidative stress and apoptosis in renal epithelial cells via downregulation of protein kinase R pathway. **Fundam Clin Pharmacol.** 2018, 32(3):297-305.
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35. Udumula MP, Babu MS, **Bhat A**, Dhar I, Sriram D, Dhar A. High glucose impairs insulin signaling via activation of PKR pathway in L6 muscle cells. **BBRC**, 2017, 486(3):645-651.
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42. **Bhat A**, Andersen PL, Qin Z, Xiao W. Rev3, the catalytic subunit of Pol $\zeta$  is required for maintaining fragile site stability in human cells. *Nucleic Acids Research*. 2013, 41(4):2328-39.
43. Jia Li, **Bhat A**, Xiao W. Regulation of Nucleotide Excision Repair through Ubiquitination. *Acta Biochim Biophys Sin (Shanghai)*. 2011;43(12):919-29.
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47. Gochhait S, **Bhatt A**, Sharma S, Singh YP, Gupta P, Bamezai RN. Concomitant presence of mutations in mitochondrial genome and p53 in cancer development – a study in north Indian sporadic breast and esophageal cancer patients. *Int J Cancer*. 2008;123(11):2580-6.
48. Shamsi MB, Kumar R, **Bhatt A**, Bamezai RN, Kumar R, Gupta NP, Das TK, Dada R. Mitochondrial DNA Mutations in etiopathogenesis of male infertility. *Indian J Urol*. 2008;24(2):150-4.
49. Jones B, Su H, **Bhat A**, Lei H, Bajko J, Hevi S, Baltus GA, Kadam S, Zhai H, Valdez R, Gonzalo S, Zhang Y, Li E, Chen T. The histone H3K79 methyltransferase Dot1L is essential for mammalian development and heterochromatin structure. *PLoS Genet*. 2008;4(9):e1000190.
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51. Rai E, Sharma S, Koul A, **Bhat AK**, Bhanwer AJ, Bamezai RN. Interaction between the UCP2-866G/A, mtDNA 10398G/A and PGCIalpha p.Thr394Thr and p.Gly482Ser polymorphisms in type 2 diabetes susceptibility in North Indian population. *Human Genetics*. 2007;122(5):535-40.
52. Kumar R, **Bhat A**, Bamezai RN, Shamsi MB, Kumar R, Gupta NP, Ammini AC, Aron M, Sharma RK, Dada R. Necessity of nuclear and mitochondrial genome analysis prior to assisted reproductive techniques/intracytoplasmic sperm injection. *Indian J Biochem Biophys*. 2007;44(6):437-42.
53. Sharma S, Rai E, **Bhat AK**, Bhanwer AS, Bamezai RN. A novel subgroup Q5 of human Y-chromosomal haplogroup Q in India. *BMC Evol Biol*. 2007;7:232.

54. **Bhat A**, Koul A, Rai E, Sharma S, Dhar MK, Bamezai RN. PGC-1alpha Thr394Thr and Gly482Ser variants are significantly associated with T2DM in two North Indian populations: a replicate case-control study. *Human Genetics*. 2007;121(5):609-14.
  55. Darvishi K, Sharma S, **Bhat AK**, Rai E, Bamezai RN. Mitochondrial DNA G10398A polymorphism imparts maternal Haplogroup N a risk for breast and esophageal cancer. *Cancer Lett*. 2007;249(2):249-55.
  56. **Bhat A**, Koul A, Sharma S, Rai E, Bukhari SI, Dhar MK, Bamezai RN. The possible role of 10398A and 16189C mtDNA variants in providing susceptibility to T2DM in two North Indian populations: a replicative study. *Human Genetics*. 2007;120(6):821-6.
  57. Saha A, Sharma S, **Bhat A**, Pandit A, Bamezai R. Genetic affinity among five different population groups in India reflecting a Y-chromosome gene flow. *J Hum Genet*. 2005;50(1):49-51.
  58. Sharma S, Saha A, Rai E, **Bhat A**, Bamezai R. Human mtDNA hypervariable regions, HVR I and II, hint at deep common maternal founder and subsequent maternal gene flow in Indian population groups. *J Hum Genet*. 2005;50(10):497-506.
- ❖ **GeneBank Data submissions:** Accession numbers of mito HVRI and II sequences with Novel polymorphisms and whole mtDNA sequences submitted in NCBI: AY641993-AY641997, AY642034-AY642040, DQ143184-DQ143195 and DQ900742-DQ900749, EU872029-EU872049.

## BOOK CHAPTERS

1. Trupti Ghatage, Srashti Goel, Deepika Dasari, Jayant Jain, Arti Dhar, **Audesh Bhat**. Nanomaterial for kidney disease management. Book entitled "Functional nanomaterials for tissue regenerative medicines". CRC Press/Taylor & Francis (In-press)
2. Jaspreet Kalra, Vandana Krishna, BollaReddy S. V. Reddy, Arti Dhar, Venkata V. K. Venuganti, **Audesh Bhat**. Nanoparticles in Medical Imaging. Book title Nanoparticles in Analytical and Medical Devices. 2020. Elsevier Press. 978-012-82-1163-2.
3. Shashank Kumar, Deepak Kumar, **Audesh Bhat**, Ajay Kumar. Phytochemicals in Clinical Studies: Current Perspective. Book Title: Functional Food and Human Health. 2018. 471-511. Springer ISBN No.978-981-13-1122-2.
4. **Audesh Bhat** and Deepak Kumar. Glycogenesis. Book Title: Carbohydrate Metabolism: Theory and Practical Approach. 2017. Nova Science Publisher, New York ISBN No. 978-1-53612-908-3
5. **Audesh Bhat** and Deepak Kumar, Other Signaling Pathways. Book Title Concepts in Cell Signaling. 2017. Agri-Biovet Press, New Delhi. ISBN No.978-93-84502-47-8

## AWARDS/HONOURS/FELLOWSHIPS

- **Life member**. Sigma Xi, The Scientific Research Honor Society (2023)
- Guest Editor, *Frontiers of Nutrition* (2022). <https://loop.frontiersin.org/people/1538155/editorial>
- Guest Editor, *Frontier of Endocrinology* (2021) <https://loop.frontiersin.org/people/1538155/editorial>
- Guest Editor, *Journal of Visual Experiments (JoVE)* (2021)
- Letter of Appreciation, Central University of Jammu (2021)
- Editorial Board Member, *Current Pharmaceutical Biotechnology* (2020-2022).
- Editorial Board Member, *INNOSC Therapeutics and Pharmacological Science* (Since 2019)
- Best publication award, Central University of Jammu, India. (2019)
- Life Member, Indian Science Congress, 2019 (L37440)

- *Life Member, Indian Society of Human Genetics (2018)*
- *“Bharat Vikas Award 2018”. Institute of Self Reliance, BHUBANESWAR, India.*
- *“Outstanding Faculty in Science” award, Venous International Faculty Award, 2018*
- *2nd Prize in poster competition, 43rd Annual Conference of Indian Society of Human Genetics. CCMB, Hyderabad, India. (2018)*
- *Best publication award, Central University of Jammu, India (2018)*
- *Appreciation award, Novartis Healthcare Pvt. Ltd., India (2016)*
- *Appreciation award, Novartis Healthcare Pvt. Ltd., India (2015)*
- *External reviewer: CSIR-SRF fellowship interview at BITS Hyderabad (2015)*
- *SHRF Postdoctoral fellowship, Canada (2009)*
- *CSIR Senior Research Fellowship, India (2004)*
- *CSIR-UGC NET for JRF and Lectureship in Life Sciences, India (2002). Was called for Shama Prasad Mukherjee Test.*
- *CSIR-UGC NET (2001)*
- *GATE (2001)*

## COMPLETED/ON-GOING RESEARCH PROJECTS

1. *Roles of a mutagenic polymerase in mitosis and genomic instability. (2 years; 100,000 Canadian Dollar; Saskatchewan Health Research Foundation, Canada; **Completed**).*
2. *Understanding the role of DNA polymerase zeta (Pol ζ) in cancer and onset of chemoresistance in most prevalent gastrointestinal cancers in Jammu and Kashmir region (2 years; 10 lakhs, UGC-Startup grant; **Completed**).*
3. *Characterization and profiling of gut microbiome in different gastrointestinal cancer types from J&K populations (2 years; 15Lakh INR; Seed money; **Ongoing**).*
4. *To restrain or regulate the reproductive health issues of humans from Jammu and Kashmir region. (5 Years; 102.8 lakhs; ICMR-Centre for Advanced Research; **Ongoing**).*
5. *Development and characterisation of TLS polymerase zeta subunit MAD2B/Rev7 targeted inhibitors as potential anticancer therapeutic agents using In-vitro and In-vivo approaches. (3 years, ICMR, 36 lakhs, **Ongoing**)*

## POSTERS/CONFERENCES/WORKSHOPS

1. **Audesh Bhat**, Sureshbabu Mangali, Arti Dhar. Glucolipototoxicity Induced Diabetic Cardiomyopathy is mediated by Protein Kinase R (PKR) pathway: Evidence from in vitro and in vivo DCM Model. 5<sup>th</sup> International Conference on Diabetes, Hypertension and Metabolic Syndrome, July 18-19, **2022 (Invited talk virtual mode)**.
2. One-day workshop on Digital PCR. Sponsored by ThermoFisher Scientific 3<sup>rd</sup> June, **2022**. New Delhi.
3. 9<sup>th</sup> CRAB-E-CON International conference: Decoding Cancer Genetics, 16<sup>th</sup> Oct 2021 (Invited Talk)
4. **Audesh Bhat**, Sureshbabu Mangali, Deepika Dasari, Vikas Sharma, Arti Dhar. Phytochemicals extracts from *Syzygium cumini* (Jamun) fruit exert an anti-proliferative effect on ovarian cancer cells. 14th International Symposium on Cancer Prevention and Therapeutics, Jawaharlal Nehru University 16th March **2021 (Poster)**
5. **Audesh Bhat**, Deepika Dasari, and Arti Dhar. Pharmacological Intervention Targeting SGLT1 Improves Cardiovascular Dysfunction In-Vitro in Diabetic Cardiomyopathy, Clinical Endocrinology 2020, 5th International Conference on Diabetes and Endocrinology, 16/10/2020, page 07 (**Plenary Talk**)

6. J. KALRA, D. Dasari, **A. Bhat**, A. Dhar, SUN-172 SELECTIVE INHIBITION OF PKR AMELIORATES HYPERTENSIVE NEPHROPATHY AND AORTIC REMODELLING IN L-NAME TREATED WISTAR RATS, *Kidney International Reports*, 2020;5(3), S271. **(Poster)**
7. **Audesh Bhat**, Arti Dhar, Wei Xiao. DNA Polymerase Zeta Maintains Genomic Stability in Human Cells Independent of Its TLS Function. International Conference on Cancer microenvironment and therapeutics. Jawaharlal Nehru University, New Delhi, 2019. **(Poster)**
8. **Audesh Bhat** and Wei Xiao. (2018), *Role of DNA Polymerase Zeta in the Maintenance of Genomic Stability in Human Cells*. 43<sup>rd</sup> Annual Conference of Indian Society of Human Genetics. Population and Medical Genomics, CCMB, Hyderabad **(Poster, 2<sup>nd</sup> prize)**
9. **Audesh Bhat** (2017). *A potential interplay between translesion synthesis and nucleotide excision repair pathways*. National Seminar of Recent Trends in Genomics and Metabolomics. Organised by the Department of Biotechnology, University of Jammu. **(Invited talk)**
10. **Audesh Bhat**, Zhoushuai Qin, Wangyang Chen, Wei Xiao(2017). *Rev7/Mad2B has a possible role in Nucleotide Excision Repair pathway*. National Conference on Science and Technology: Emerging trends and Innovations. Organised by the University of Jammu. **(Poster)**
11. **Audesh Bhat**, Parker Anderson, Wei Xiao (2012). *Loss of Rev3, the Pol $\zeta$  catalytic subunit causes fragile site expression in human cells*. International Conference on Maintenance of Genome Stability, **Nassau, Bahamas**. Organised by Abcam. **(Poster)**
12. **Audesh Bhat**, Parker Anderson, Wei Xiao (2011). *Loss of the Pol $\zeta$  catalytic subunit Rev3 causes genomic instability independently of its regulatory subunit rev7 in human cells*. International Conference on Eukaryotic DNA replication and Genome Maintenance, **CSHL, New York, USA**. **(Abstract)**
13. Indo-US workshop on Epigenetics regulation and Genome Control(2009),**CCMB, Hyderabad, India**.
14. Attended International Symposium on *Genetics of Human Evolution and Complex Diseases* (2005), **NCBS, Bangalore, India**.
15. **Audesh Bhat**, Anjana Saha, Swarker Sharma, RNK Bamezai (2004). *Tale Of Y-Chromosome Distribution In Populations Groups of Indo-European and Dravidian Linguistic Families From Six Indian Regions*. XXIX Annual

## **EXTRACURRICULAR ACTIVITIES**

- Organised National Science Day 2022 at the Central University of Jammu
- Member, Folk Dance Committee, UDAAN Cultural Festival, Central University of Jammu.
- Organised National Science Day 2018 at the Central University of Jammu
- Co-organised a National Conference on Materials for Sustainable Development and New Technology at the Central University of Jammu.
- Chaired a session and Co-coordinated the 2<sup>nd</sup> J&K Medical Congress, 2017.
- Organised National Science Day 2017 at Central University of Jammu.
- Volunteer, Saint Judes' Child Cancer Care Centre, Hyderabad (Sponsored by Novartis Healthcare)
- Volunteer, "Let's talk science" at Univ. of Saskatchewan, Canada.
- Volunteer, "Leukemia and Lymphoma Society" fundraising event, Canada.
- Volunteer, "Saskatoon regional science fair", Canada.
- Organising member of an international human health conference, New Delhi.
- Organised a diabetes detection camp at Jammu, India.