




## Faculty Profile (Department of Anthropology)

Title	Dr.	First Name	Kallur	Last Name	Saraswathy	Photograph
Designation		Assistant Professor				
Address		Residence: B2/9, 3 <sup>rd</sup> Floor, Safderjung Enclave, Delhi - 110029 Office: Department of Anthropology, University of Delhi, Delhi - 110007				
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Web-Page						
<b>Educational Qualifications</b>						
Degree		Institution				Year
Ph.D.		Department of Anthropology, University of Delhi, Delhi				2000
M.Phil. / M.Tech.		Department of Anthropology, University of Delhi, Delhi				1991
PG		Department of Anthropology, University of Delhi, Delhi				1987
UG		Sigareni Women's College, Osmania University, Andhra Pradesh				1983
Any other qualification		a) B.Ed from Annamalai University, Tamil Nadu b) Post Doctoral Fellow				1993 2001
<b>Career Profile</b>						
Organisation / Institution		Designation		Duration		Role
Lancers Convent		Teacher		1990 - 1994		Taught Chemistry, Biology to classes 9th, 10th, 11th and 12th.
Institute of Public Health and Hygeine		Part time examiner		1995-1999		Evaluated papers and Translated question papers into Telugu
Department of Anthropology, University of Delhi		Fieldwork officer		1995-1998		Conducted research in the DBT sponsored research project Titled "Genetic Survey of two tribes of Adilabad District of Andhra Pradesh." under Prof. A.K.Kalla
Molecular Genetics Laboratory in Albert Einstein College of Medicine, New York, USA		Postdoctoral fellow		June 2000 to August 2001		Performed Genome Wide scan for genetic basis for Narcolepsy with polymorphic micro satellite markers in the project titled "Positional cloning of Narcolepsy gene through linkage analysis" under Prof. Raju Kucherlapati
Amity Institute of Biotechnology, NOIDA		Lecturer		August 2001 to November 2002		Taught Anthropology, Behavioural Genetics and Bioinformatics
Department of Anthropology, University of Delhi		Lecturer		November 2002 onwards		Teaching Population Genetics, Biochemical Genetics, Human Biological Diversity, Ethnic and Cultural Diversity, Techniques in Human Genetics to Undergraduates and postgraduates

## **Administrative Assignments**

Visiting Fellow in Department of Human Biology, Punjabi University, Patiala in UGC-SAP; involved in M.Sc syllabus revision; organized workshop in Biochemical & Molecular Genetics in Department of Anthropology, prepared SAP annual reports for 4 years, including final report, Presented the SAP Final report (Physical Anthropology)

## **Areas of Interest / Specialization**

Molecular Anthropology, Genome Diversity, Molecular Medical Genetics

## **Subjects Taught**

Teaching Human Genetics, Biochemical Genetics, Human Biological Diversity, Ethnic and Cultural Diversity, Techniques in Biostatistics & Computational Anthropology, Molecular Anthropology, to Undergraduates and postgraduates and also guiding students for their M.Phils & PhDs in Molecular Anthropology & Medical Genetics in Department of Anthropology, University of Delhi, Delhi-110007

## **Research Guidance**

*List against each head (If applicable)*

1. Supervision of awarded Doctoral Thesis : **14 (2 Submitted)**
2. Supervision of Doctoral Thesis, under progress: **4**
3. Supervision of awarded M.Phil dissertations : **8**
4. Supervision of M.Phil dissertations, under progress: **NA**

## **Publications Profile**

*List against each head (If applicable) (as Illustrated with examples)*

### *1. Books/Monographs (Authored/Edited): 7*

- **Thoti Tribe of Andhra Pradesh: A Demogenetic Study; Abhijeet Publications, Delhi, India.**
- **Haptoglobin polymorphisms among Brahmins of Himachal Pradesh, India; LAP Lambert Academy Publishing, Germany.**
- **Some Aspects of High Through Put Genotyping in Linkage Analysis (Chapter); Expanding horizons of Human Genetics, Department of Anthropology, University of Delhi, Delhi; edited by M.K. Bhasin, A.K. Kalla.**
- **Anthropology and Human Genetics: Some Ideas and Comments (Chapter); Palaka Prakasahn (New Delhi/India); Edited by V. K. Srivastava, M. K. Singh, D. K. Bhattacharya.**
- **A comparative study of reproductive health among two primitive tribes of Andhra Pradesh (Chapter); Concept Publishing Group (New Delhi/India); Edited by A. K. Kalla and P. C. Joshi.**
- **Genetics and Epigenetics in Health (Chapter); Concept Publishing Group, New Delhi, India; Edited by H. K. Bhat, P. C. Joshi, B. R. Vijayendra.**
- **Cytokine genes and Coronary Heart Disease in Indian Population; LAP Lambert Academy Publishing, Germany.**

### *2. Research papers published in Refereed/Peer Reviewed Journals*

- a) *Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals*
- b) *Research papers published in Refereed/Peer Reviewed Conferences*

**Total- 115; Last six years – 53**

## Year 2012

1. **Kallur Nava Saraswathy**, Mohammad Asghar, Ratika Samtani, Benrithung Murry, Prakash Ranjan Mondal, Pradeep Kumar Ghosh, Mohinder Pal Sachdeva. Spectrum of MTHFR gene SNPs C677T and A1298C: A study among 23 populations groups of India. *Molecular Biology Reports*. 39.4: 5025-5031, 2012.
2. Astha Bansal, **K N Saraswathy**, P C Joshi. Psycho-social risk factors of cardiovascular disease among the female Sunni Muslim of Delhi, Pilot Study. *Voice of Intellectual Man*. 2(1): 89-94, 2012.
3. Priyanka Rani Garg, Salam Kabita, Huidrom Suraj Singh, **Kallur Nava Saraswathy**, Ekata Sinha, Alope Kumar Kalla, Dhanaraj Singh Chongtham. Differences in conventional cardiovascular risk factors in two ethnic groups in India. *Ethnicity and Disease*. 22(3): 372-376.
4. Nongthombam Achoubi, Mohammad Asghar, **Kallur Nava Saraswathy**, Benrithung Murry. Prevalence of  $\beta$ -Thalassaemia and Haemoglobin E in Two Migrant Populations of Manipur, North East India. *Genetic Testing and Molecular Biomarkers*. 16(10): 1195-1200, 2012.
5. Seerat Sachdeva, Kallur N **Saraswathy**, Mahima Gulbani, Shweta Kaushik, M.P. Sachdeva, Manju Puri, S.L. Malik. MTHFR C677T polymorphism among three Mendelian populations- A study from North India. *Biochemical Genetics*. 50(11-12):893-897, 2012.
6. Asghar M, Kabita S, Kalla L, Murry B, **Saraswathy KN**. Prevalence of MTHFR, Factor V, ACE and APOE gene polymorphisms among Muslims of Manipur, India. *Annals of Human Biology*. 40(1): 83-7, 2012.
7. Lovejeet Kaur, Manju Puri, Shweta Kaushik, Mohinder Pal Sachdeva, Shubha Sagar Trivedi, **Kallur Nava Saraswathy**. Genetic Thrombophilia in pregnancy: A Case-Control Study among North Indian Women. *J Thromb Thrombolysis*. 35(2), 250-256, 2012.
8. Jyoti Arora, **Kallur N. Saraswathy**, Roumi Deb. Effect of maternal Tp53 gene G412C polymorphism on neural tube defects: A study from North India. *Indian Journal of Human Genetics*. 18(2): 177-182, 2012.
9. Sanjenbam Yaiphaba Meitei, **Kallur Nava Sarawathy**, Mohinder Pal Sachdeva. Demogenetic study - A holistic approach for studying population structure. *International Journal of Human Sciences*. 9(2): 302- 404, 2012.
10. Sanjenbam Yaiphaba Meitei, Khangembam Somibabu Meitei, Benrithung Murry, Prakash Ranjan Mondal, **Kallur Nava Saraswathy**, Pradeep Kumar Ghosh, Mohinder Pal Sachdeva. Common genetic heritage and admixture among Indian population groups as revealed by mtDNA markers. *Anthropological Science*. 120(3), 227-234, 2012.
11. Vijaya bhaskar, M. Uma Mahesh, K.S.S. Aggarwal, A. and **Saraswathy, K.N** (2012). A study on haptoglobin polymorphism among Koya Dora tribe of Khammam district, Andhra Pradesh. *Indian Journal of Physical Anthropology & Human Genetics*. Vol. 31 no.1, 137-140.
12. Piyooosh Kumar Singh, Motilal, M.P. Sachdeva, **Kallur Nava Saraswathy**. 2012. Haptoglobin Polymorphism and G-6-Pd Status Deficiency among the Brahmins and Rajputs of Solan District, Himachal Pradesh. *The Asian Man* Vol. 6, Issue 1: 46-48.
13. Dhamija, Rajinder K., Piyush Ranjan, Barun Kumar, Santosh K. Mishra, and **Saraswathy N. Kallur**. (2012). Association of PDE4D gene with ischaemic stroke. *International Journal of Stroke* 7, no. 7: E8-E8.
14. Seerat Sachdeva, **Kallur Nava Saraswathy**, Priyanka Rani Garg, Shanti Lal Malik. To study the obesity status among Rajput population of Mandi district in Himachal Pradesh in terms of Body mass index and waist hip ratio. *International Journal of Human Sciences*. 9(2):1153-1157, 2012.
15. Suniti Yadav, Ketaki Chandiok, Huidrom Suraj Singh, **K N Saraswathy**. A Prospective Relation between Depression and Body Mass Index among Three Tribal Populations of India. *Voice of Intellectual Man*. 2(2): 123-130, 2012.

## Year 2013

16. Priyanka Rani Garg, Salam Kabita, Ekata Sinha, Leena Kalla, Lovejeet Kaur, **Kallur Nava Saraswathy**. The association of non-HDL cholesterol with the presence of Metabolic Syndrome in North Indian subjects with and without CAD. *Annals of Human Biology*. 2013. 40(1): 111-5, 2013.
17. Priyanka Rani Garg, **Kallur Nava Saraswathy**, Alope Kumar Kalla, Ekata Sinha, Pradeep Kumar Ghosh. Pro-inflammatory cytokine gene polymorphisms and threat for coronary heart disease in a North Indian Agrawal Population. *Gene*. 514 (1):69-74, 2013.
18. Sachdeva, M P., Deepti Saxena, P R Mondal, S Yaiphaba, **Saraswathy K N**. Dopamine D2 Receptor and Ankyrin repeat and Kinase domain containing 1 genes among the two linguistically distinct tribal populations of Ranchi District, Jharkhand, India. *Anthropologischer Anzeiger*, 70(1): 15-26, 2013.

19. Huidrom Suraj Singh, Pradeep Kumar Ghosh, **Kallur Nava Saraswathy**. DRD2 and ANKK1 gene polymorphisms and alcohol dependence: a case-control study among Mendelian population of East Asian Ancestry. *Alcohol and Alcoholism*, 48.4 : 409-414, 2013.
20. Aastha Aggarwal, Priyanka Khurana, Siuli Mitra, Bhavesh Raicha, **K.N. Saraswathy**, Yazdi M Italia, Gautam K Kshatriya. Distribution of beta-globin haplotypes among the tribes of Southern Gujarat, India. *Gene*, 521: 287-292, 2013.
21. Asghar M., Murry B., **Saraswathy K.N.** Isonymy and repeated pairs of surnames among the Muslims of Manipur, India. *Homo- Journal of Comparative Human Biology*. 64: 312-316, 2013.
22. Manju Puri, Lovejeet Kaur, Gagandeep Kaur Walia, Rupak Mukhopadhyay, Mohinder Pal Sachdeva, Shubha Sagar Trivedi, Pradeep Kumar Ghosh, **Kallur Nava Saraswathy** (2013). MTHFR C677T polymorphism, folate, vitamin B12 and homocysteine in recurrent pregnancy losses: A case control study among north Indian women. *Journal of Perinatal Medicine*, 1-6, 2013.
23. **Kallur Nava Saraswathy**, Sanjenbam Yaiphaba Meitei, Huidrom Suraj Singh, Antoneta Teresa Joseph, Prakash Ranjan Mondal, Benrithung Murry, Mohinder Pal Sachdeva, Pradeep Kumar Ghosh. Dopaminergic D4 Receptor Polymorphism among 24 populations of India: An Anthropological Insight. *Anthropological Science*, Vol. 121(2), 131-136, 2013.
24. Ekata Sinha, Sanjenbam Yaiphaba Meitei, Priyanka Rani Garg, **Kallur Nava Saraswathy**. (2013). PDE4D gene polymorphisms and coronary heart disease: a case-control study in a North Indian population. *Journal of clinical laboratory analysis* 27.4: 297-300.
25. Salam Kabita, Huidrom Suraj Singh, Dhanaraj Singh Chhongtham, **Kallur Nava Saraswathy** (2013). MTHFR C677T polymorphism among Meiteis of Manipur (India). *Ethnicity & disease* 23.3 (2012): 379-381.
26. R. Samtani, Lovejeet K, **K N Saraswathy**, P K Ghosh (2012) Simultaneous detection of FVL and MTHFR (C677T) mutations using PCR RFLP method. *International Journal of Basic and Applied Medical Sciences*. Vol. 2 (2), pp.267-270.
27. Shweta, Lovejeet, MP Sachdeva, Manju Puri and **K.N Saraswathy** (2013). Pregnancy Complications among North Indian Populations – A community based study. *South Asian Anthropologist*.. Vol. 7, Issue 1&2: 187- 189).

#### Year 2014

28. **Saraswathy, K. N.**, Garg, P. R., Salam, K., Joshi, S., Huidrom, S. S., & Ghosh, P. K. (2014). MTHFR C677T polymorphism and its homocysteine-driven effect on blood pressure. *International Journal of Stroke*, 9(4), E20-E20.
29. Khan Simi, Thakur Sunil, **Kallur Saraswathy Nava**, Ghosh Pradeep Kumar, Sachdeva Mohinder Pal, & Vadlamudi Raghavendra Rao (2014). Methylene tetrahydrofolate reductase (MTHFR) C677T polymorphism among Gaddi tribe of Indian state of Himachal Pradesh. *Annals of Human Biology*, (0), 1-3.
30. H Suraj Singh, SK Devi, **KN Saraswathy**. DRD1 (-48A/G Del) gene polymorphism and alcohol dependence - a study among Meiteis of Mabipur, India. *Human Biology Review*, 2014.
31. Chandio, K., Sachdeva, M. P., & **Saraswathy, K. N.** (2014). MTHFR C677T Polymorphism Among the Panikas and Baigas of Madhya Pradesh. *Voice of Intellectual Man-An International Journal*, 4(1), 115-120.
32. Lovejeet Kaur, **Kallur Nava Saraswathy** (2013). Human genetics, epigenetics and molecular expression : their application in forensics. *Indian journal of physical Anthropology & human genetics* , 32 (2) : 301- 308.
33. Singh, H. S., Salam, K., & **Saraswathy, K. N.** (2014). A Study on MTHFR C677T Gene Polymorphism and Alcohol Dependence among Meiteis of Manipur, India. *Journal of Biomarkers*, 2014.
34. Khurana, P., Aggarwal, A., Mitra, S., Italia, Y. M., **Saraswathy, K. N.**, Chandrasekar, A., & Kshatriya, G. K. (2014). Y Chromosome Haplogroup Distribution in Indo-European Speaking Tribes of Gujarat, Western India. *PloS one*, 9(3), e90414.
35. Asghar, M., Murry, B., & **Saraswathy, K. N.** (2014). Fertility behaviour and effect of son preference among the Muslims of Manipur, India. *Journal of Anthropology*.

#### Year 2015

36. Samtani, R., Bajpai, M., Ghosh, P. K., & **Saraswathy, K. N.** (2015). A49T, R227Q and TA repeat polymorphism of steroid 5 alpha-reductase type II gene and Hypospadias risk in North Indian children. *Meta Gene*, 3, 1-7.
37. Kumari, S., **Saraswathi, K. N.**, & Mondal, P. R. (2015). Glucose-6-phosphate dehydrogenase (G6PD) among Indian Tribal Population-A review. *Voice of Intellectual Man-An International Journal*, 5(2), 139-144.
38. Huidrom Suraj Singh, Salam Kabita Devi and **Kallur Nava Saraswathy** (2015). Methylenetetrahydrofolate reductase (MTHFR) C677T gene polymorphism and alcohol consumption in hyperhomocysteinaemia: A population-based study from North-east India. *Journal of Genetics*, Vol. 94, No. 1

#### Year 2016

39. Chandio, K., Joshi, S., Mondal, P. R., Rao, V. R., & **Saraswathy, K. N.** (2016). Menopausal status and Cardio-metabolic Risk: A cross sectional study from Haryana State, India. *Human Biology Reviews*, Vol.5 No.1, 104-116, 2016.
40. Kumari, S., Sharma, N., Thakur, S., Mondal, P. R., & **Saraswathy, K. N.** (2016). Beneficial role of D allele in controlling ACE levels: a study among Brahmins of north India. *Journal of Genetics*, 1-5.
41. Vani Kandpal, M. P. Sachdeva, **K.N. Saraswathy** (2016). An assessment study of CVD related risk factors in a tribal population of India, *BMC Public Health* (Accepted 25 May 2016).
42. Suniti Yadav, N.M. Devi, H.S. Singh, **K.N. Saraswathy** (2016). Dopamine receptor D2 gene polymorphism and interaction with the body mass index: A study among two tribal populations of Central India. *Gene Reports* 4 (2016) 269–271

#### Year 2017

43. Chandio K, Mondal PR, Yadav S, **Saraswathy KN** (2017). Significant Association of History of Miscarriage with Obesity Among Indian Women of Childbearing Age. *Online J Health Allied Scs.* 2017;16(1):2.
44. Simi Khan, Sunil K Thakur, **K N Saraswathy**, Sachdeva M P (2017). Effect of Age at Menarche on the Risk of Occurrence of Cardiovascular Adversities Among A Tribal North Indian Population. *Cardiology and Cardiovascular medicine* (Accepted 29 May 2017)
45. Garima Rana, Suniti Yadav Shipra Joshi and **K. N. Saraswathy** (2017). Association of DD genotype of angiotensin-converting enzyme gene (I/D) polymorphism with hypertension among a North Indian population. *J Community Genet* DOI 10.1007/s12687-017-0321-9
46. Khan S, **Saraswathy KN**, Sachdeva MP, Thakur SK (2017) Menopause as an Indicator for Determining Cardiovascular Risk Factors: A Cross Sectional Study among Gaddi Tribe of Himachal Pradesh, India. *J Womens Health, Issues Care* 6:4. doi: 10.4172/2325-9795.10002811
47. Shivani Chandel, Mamta Kumari Thakur, **Kallur Nava Saraswathy** (2017). Age related changes in Hand grip strength and its association with ACE I/D polymorphism: A cross-sectional study on Jat population of Haryana. *J. Indian Anthropological society.* 52:185-197(2017)

#### Year 2018

48. Ningombam, S. S., Chhungi, V., Newmei, M. K., Rajkumari, S., Devi, N. K., Mondal, P. R., & **Saraswathy, K. N.** (2018). Differential distribution and association of FTO rs9939609 gene polymorphism with obesity: A cross-sectional study among two tribal populations of India with East-Asian ancestry. *Gene*.
49. Rawat, S., Joshi, P. C., Khan, M. A., & **Saraswathy, K. N.** (2018). Trends and determinants of suicide in Warangal District Telangana, India: six years retrospective study based on secondary data. *Egyptian Journal of Forensic Sciences*, 8(1), 8.
50. Rawat, S., Kaur, G., Yadav, S., Khan, M. A., & **Nava, S. K.** (2018). Global DNA methylation and depression: Preliminary result from community based epidemiological study. *Meta Gene*, 15, 84-86.
51. Mishra, D., Naorem, K., & **Saraswathy, K. N.** (2018). Angiotensin-Converting Enzyme Gene Insertion/Deletion Polymorphism and Cardiometabolic Risk Factors: A Study Among Bhil Tribal Population from Two Environmental Settings. *Biochemical genetics*, 1-20.
52. Ningombam, Somorjit Singh, Sunanda Rajkumari, Varhlun Chhungi, Masan Kambo Newmei, Naorem Kiranmala Devi, Prakash Ranjan Mondal, and **Kallur Nava Saraswathy**. "Type 2 diabetes and FTO rs9939609 gene

polymorphism: a study among the two tribal population groups of Manipur, North East India." *International Journal of Diabetes in Developing Countries* (2018): 1-6.

53. Saraswathy, K. N., Joshi, S., Yadav, S., & Garg, P. R. (2018). Metabolic distress in lipid & one carbon metabolic pathway through low vitamin B-12: a population based study from North India. *Lipids in health and disease*, 17(1), 96.

c) *Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences:*

**"MTHFR gene specific methylation in recurrent pregnancy losses", in conference proceedings - *Advances and Controversies in B - Vitamins and Choline Leipzig organized by CONVENTUS Congress management & Marketing GmbH at Leipzig University, Germany.***

3. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.)*

### **Conference Organization/ Presentations (in the last three years)**

*List against each head (If applicable)*

1. *Organization of a Conference*

- i. Co-Organized one day seminar "Beyond Mendel and Darwin" on 28 February, 2014 in Department of Anthropology, University of Delhi, New Delhi.
- ii. Organized one day seminar celebrating National Science Day on 02 March, 2014 in Department of Anthropology, University of Delhi, New Delhi.
- iii. Organized two-day National Seminar on "Anthropology of cardio-metabolic adversities" on 25-26 September, 2015 in Department of Anthropology, University of Delhi, New Delhi.
- iv. Organized one-day National Seminar on "Anthropology and health" on 28 January, 2016 in Department of Anthropology, University of Delhi, New Delhi.
- v. Co-organized two day National Seminar on "Celebrating Anthropology: The Human Science" on 22-23 April, 2016 in Department of Anthropology, University of Delhi, New Delhi.
- vi. Organized International Workshop for the development of Full proposal involving the tri-country collaboration from UK-India-Bangladesh, under the Newton Fund funded by DBT-DFID-ESRC-MRC Global Research Programme Panel from 17-19 July, 2017.

2. *Participation as Paper/Poster Presenter :*

- i. Presented research paper entitled "MTHFR gene specific methylation in recurrent pregnancy losses, *Advances and Controversies in B - Vitamins and Choline Leipzig organized by CONVENTUS Congress management & Marketing GmbH at Leipzig University, Germany*, 5 – 8 March, 2012.
- ii. Presented research paper entitled "MTHFR C677T polymorphism and hyperhomocysteinemia among two different ethnic groups and their variable role in complex disorders", GENOMEET 2013 at CSIR-IGIB, New Delhi, 2013.
- iii. Presented paper titled "Lipid and Homocysteine metabolism in a Mendelian population - A study from Rural and Urban North India" at *10th International conference One Carbon Metabolism and Homocysteine held at Nancy, France*, 7-11 July, 2015.
- iv. Presented paper titled "Gene, Environment and Disease: An Anthropological Overview" at Department of Anthropology, University of Delhi, Delhi, 25-26 September, 2015.
- v. Presented paper titled "ACE(Ins/Del) polymorphism: Anthropological relevance" at National Seminar organized by Department of Anthropology, University of Delhi, Delhi, 22-23 March, 2016.
- vi. Presented paper titled "Folic acid supplementation & the puzzle of Vitamin B12 Deficiency: An Anthropological insight" at National Seminar organized by Department of Anthropology, University of Delhi, New Delhi, on 3rd October, 2017.
- vii. Presented paper titled "Understanding micronutrient deficiencies in human health: An Anthropological perspective" at National Seminar organized by Society for Indian Medical Anthropology (SIMA) at Raipur on March 16-18, 2018.

## Research Projects (Major Grants/Research Collaboration)

### *i. Ongoing Research Projects:*

- a. Psychosocial and biological determinants of cardiovascular disease: A study among Bhils and Meenas of Rajasthan funded by DU-DST
- b. Determinants of Suicidal Behaviour: A study from Telangana State, India funded by ICSSR.

### *ii. Completed Research Projects:*

- a. A study on the genomic diversity among four Tribal population groups (Anal, Chote, Thadou and Paite) of Manipur funded by DBT.
- b. A genomic study on Oraons and Mundas of Ranchi District (Jharkhand) funded by UGC.
- c. A study on incidence of genetic Thrombophilia among the women with pregnancy complications funded by DBT.
- d. Genetic Epidemiological study among the Meiteis of Manipur with special reference to cardiovascular disease funded by UGC.
- e. A study on the Genomic Diversity among some population groups of Andhra Pradesh as Co-Principal Investigator; funded by DBT.
- f. Molecular basis of adaptation/maladaptation at high altitude funded by DU-DST.
- g. Study of Air Pollution and DNA Methylation vis-à-vis cardiovascular outcomes/variables in Rural and Urban populations of North India funded by DBT.
- h. A case-control study of global and MTHFR gene specific Methylation vis-à-vis pregnancy complications among North Indian populations funded by DBT.
- i. Role of FoxP3 mRNA expression Th17-Treg paradigm and hCG levels in preeclampsia funded by DST.
- j. Genetics of hyperhomocysteinemia: A study among Meiteis of Manipur funded by UGC-DU R&D.
- k. Impact of hyperhomocysteinemia on cognition – A study among North Indian population funded by UGC-DU R&D.
- l. Demographic and Genetic studies related to the incidence of Neural Tube Defects (NTDs) funded by ICMR .
- m. Genomic heterogeneity among the tribes of Southern Gujarat funded by DBT (Co-Investigator).

## Awards and Distinctions

NA

## Association with Professional Bodies

1. *Editing: NA*
2. *Reviewing: NA*
3. *Advisory: NA*
4. *Committees and Boards: NA*
5. *Memberships:*
  - Life member of Indian Society for Human Genetics (ISHG)
  - Life member of Indian National Confederation and the Academy of Anthropologists (INCAA)
  - Life member of Society for Indian Medical Anthropology (SIMA)
  - Life member of Indian Anthropological Association (IAA)
6. *Office Bearer: NA*

## Other Activities

- Co-guided 6 M.D. thesis (1 in progress);
- Delivered lecture “Application of Human Molecular Genetics and Epigenetics in Forensic Science” as a resource person at National Forensic workshop at Department of Anthropology, University of Delhi.
- Invited to presented paper titled “Genetics and Epigenetics of Pregnancy Induced Hypertension: through the lens of folate metabolic pathway” at Lady Hardinge Medical College, New Delhi, on 12<sup>th</sup> March, 2016.