

## Curriculum Vitae

### Arup Ratan Bandyopadhyay, *M.Phil, PhD*



1. **Full name of the faculty member:** ARUP RATAN BANDYOPADHYAY

2. **Designation:** PROFESSOR

3. **Specialization:** BIOLOGICAL ANTHROPOLOGY

4. **Contact information:**

DEPARTMENT OF ANTHROPOLOGY, UNIVERSITY COLLEGE OF SCIENCE TECHNOLOGY & AGRICULTURE, UNIVERSITY OF CALCUTTA. 35, BALLYGUNGE CIRCULAR ROAD, KOLKATA – 700019. E-MAIL: arup.cu@gmail.com/arbaner@rediffmail.com/abanthro@caluniv.ac.in. TEL: +913324614849 (EXTN. 326).

5. **Academic Qualification:**

College/University from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc (Hons) in Anthropology (1 <sup>st</sup> Class)
University of Calcutta	M.Sc in Anthropology (1 <sup>st</sup> Class)
University of Calcutta	M.Phil in Environmental Science
University of Calcutta	PhD in Science (Anthropology)

6. **Position held / holding:**

POST	UNIVERSITY	DURATION
JUNIOR RESEARCH FELLOW (UGC-NET)	UNIVERSITY OF CALCUTTA	1987-1989
SENIOR RESEARCH FELLOW (UGC-NET)	UNIVERSITY OF CALCUTTA	1989-1992
GUEST LECTURER	VIDYASAGAR UNIVERSITY	1992-1993
LECTURER IN ANTHROPOLOGY	VISVA BHARATI	1993-1998
SENIOR LECTURER IN ANTHROPOLOGY	VISVA BHARATI	1998-2000
READER IN ANTHROPOLOGY	UNIVERSITY OF CALCUTTA	2000-2008
PROFESSOR IN ANTHROPOLOGY	UNIVERSITY OF CALCUTTA	2008-CONTINUING

7. **Research Interest:**

a)

8. **Research Guidance:**

**Number of researchers awarded M.Phil/PhD Degree:** PhD degree: 07 (Six). 01 (one) submitted [MD dissertations in Anatomy, West Bengal Health University: 06 (six)]

**Number of researchers pursuing M.Phil/PhD Degree:** 06 (six)

9. **Projects:**

Completed Project:

2015-2017	<b>UGC Minor research project (Co PI)</b> <b>Project Title:</b> A Comparative Study on Household Space Sharing, Child Growth and the Relationship Between Adult Body Composition and Non-Communicable Diseases with Health Hazards In Three Ethnic Groups Of India
2012 - 2015	<b>UGC-UKIERI (British Council) Project in collaboration with University of Edinburgh, UK (International)</b> <b>Project Title:</b> <i>Evolution of Hair Form</i>
2011 – 2014	<b>UGC Major Research Project (PI) (National)</b> <b>Project Title:</b> <i>Type 2 diabetes mellitus risk in adult Bengalee population: comparative evaluation of Anthropometric and Lifestyle Variables in Rural and urban areas of West Bengal, India</i>
2007 – 2012	<b>UGC-UPE Major Research Project (Co PI) (National)</b> <b>Project Title:</b> <i>Use of Forensic Science in administration of justice: A futuristic Study</i>
2006 -2009	<b>UGC Major Research Project (Co PI) (National)</b> <b>Project Title:</b> <i>On the variation of primate hair</i>
2005-2010	<b>SAP-DSA III Program</b> ▪ <b>Project Title:</b> <i>A study on Anthropometric Diversity of Mundari and Dravidian Speaking Populations of Eastern India</i>

	<ul style="list-style-type: none"> <li>Project Title: <i>A Study on variation of some of the hair histological variables of Human and Non-human Primates in India</i></li> </ul>
2005-2010	<b>UGC-ASIHSS Program</b> Project Title: <i>A study on the risk factors of diabetes: an anthropometric approach</i>
2001-2004	<b>SAP-DSA II Program</b> Project Title: <i>Reproductive performance of Santal females of rural West Bengal</i>
1994-1995	<b>Research grant for Academics, Visva-Bharati</b> Project Title: <i>A Study on Growth and Nutritional Status of Santal Children of Ampukurdanga Village, Gopinathpur, Birbhum</i>

#### Current Project:

#### UGC UPE2 Major Research Project (PI):

#### MODERN BIOLOGY: GROUP B: Nutritional & Environmental Hazards in Non-communicable Disease

**Project Title:** *Polycystic Ovarian Syndrome (PCO) and other Non-Communicable Diseases among the different ethnic groups of Eastern and North Eastern India: A Study on association of molecular heterogeneity, Body composition and lifestyle risk factors*

#### 10. Select List of Publication:

##### a) Journals:

[IMPACT FACTOR 0 – 4.824]

Area of Research, Major Publications and Supervision of PhD

### HAIR STUDY: VARIATION OF PRIMATE AND EVOLUTIONARY BIOLOGY

#### Related Publications:

- Chatterjee Madhumati and **Bandyopadhyay Arup R** 2018. Hair Ultrastructure: A comparative study on Old world and New world monkey. *Human Biology Review*. 7(1): 28-33 (ISSN: 22774424)
- Chatterjee Madhumati and **Bandyopadhyay Arup R** 2015. Inter-species relationship of Presbytis Monkeys based on Hair Medulla Structure. *Human Biology Review*. 4(3): 236-239 (ISSN: 22774424)
- Chatterjee Madhumati and **Bandyopadhyay Arup R** 2014. Primate hair Variation: A study on quantitative traits. *Journal of Indian Anthropological Society*. 49(1), 141-147 [ISSN: 0019-4387]
- Chatterjee M and **Bandyopadhyay Arup R** 2012. A Study on hair morphology and quantitative variations of Papio Hamadryas *Journal of the Department of Anthropology, University of Calcutta* Vol. 14: 144-150 (ISSN: 2249-6181)
- Chatterjee Madhumati, Chanda Sudesna, **Bandyopadhyay Arup R**, Ghosh Jyoti Ratan. 2010. A Study on Evolutionary Biology of Hair Medullation in primates. *Journal of the Department of Anthropology, University of Calcutta* Vol. 12 & 13(No. 1 & 2): 1-9 (ISSN: 2249-6181)
- Jayita Roy Tapadar, **Bandyopadhyay Arup R** and Das Chaudhuri A.B. 2010. A Brief Report on Investigating into Intergenerational Relationship between Two Indian Cercopithecus Monkeys based on Hair Medulla Structure. *Journal of the Indian Anthropological Society*. 45:85-89 [ISSN 0019-4387]
- Sanchita Mistry, Jyoti Ratan Ghosh and **Bandyopadhyay Arup R**. 2010. Histomorphological and Quantitative Characteristics of Black and Gray Human Scalp Hair. *Journal of Life Science*. 2(1): 49-52 (ISSN0975-1270)
- Sudeshna Chanda and **Bandyopadhyay Arup R**. 2006. Sexual dimorphism in the hair histological characters among the adult Bengali population of Kolkata. *Indian Journal of Physical Anthropology & Human Genetics* 25(2):111-117. (ISSN: 0378-8156)

#### PhD Awarded

- 2012: **On the variation of primate head hair**  
(Dr. Sudeshna Chanda, Assistant Professor, Department of Anthropology, Bidhannagar Govt. College, Kolkata)
- 2014: **Study on the Variation of Primate Hair: Approach to Evolutionary Biology**  
(Dr. Madhumati Chatterjee, Contractual Guest Teacher, Department of Anthropology, Sarojini Naidu College for Women, Kolkata)

### FORENSIC ANTHROPOLOGY

#### Related Publications:

- Ghosh Jyoti Ratan, Guin Rimpa and **Bandyopadhyay Arup R**. 2015. Estimation of stature from Foot measurements. *Indian Journal of Research in Anthropology*. 1 (1): 25-30 [ISSN2454-9118]
- Ghosh Jyoti Ratan and **Bandyopadhyay Arup R**. 2014. Estimation of Stature from Index and Ring Finger Lengths. *Indian Journal of Physical Anthropology & Human Genetics*. 33 (1): 23-29 [ISSN: 0378-8156]
- Mistry Sanchita, Chatterjee Madhumati, Ghosh Jyoti Ratan, Chakrabarti N.K., **Bandyopadhyay Arup R** 2012. Variations of Scalp, Pubic and Axial hair. *Anthropologischer Anzeiger* 69(1) 117-125 (ISSN 0003-5548, e-ISSN 2363-7099) [Germany] [PMID: 22338799]
- Chakrabarti N. K., **Bandyopadhyay Arup R**. Das P. 2012. Use of Forensic Techniques of Polygraphy, Narcoanalysis and Brain Mapping under Indian Legal regime: A Review of Supreme Court Decision on Selvi case in Human Rights Perspectives. *Indian Human Rights and Law Review*. 3:13-27 (ISSN : 0973-0818)

13. Mistry Sanchita, **Bandyopadhyay Arup R.**, Chakrabarti N.K., Chatterjee Madhumati, Roy Tapadar Jayita., Ghosh Jyoti Ratan 2010. Histomorphological and quantitative study on black and gray hair in Bengalee Population. *Journal of Indian Academy of Forensic Sciences* 42(1&2): 32-40 ( ISSN: 0579-4749)
14. **Bandyopadhyay Arup R.** 1999. Haptoglobin groups in paternity diagnosis. *Journal of Indian Academy of Forensic Sciences.* 38: 1&2: 44 – 48. ( ISSN: 0579-4749)

## DENTAL ANTHROPOLOGY

15. Chatterjee M and **Bandyopadhyay Arup R.** 2012. A Study on Nutritional Status and Dental Caries in Permanent Teeth among School Going Girl of Bengalee Population, India. *Advances in Anthropology.* 2 (3): 112-116 (ISSN Print: 2163-9353; ISSN Online: 2163-9361)

## Public Health

### MOLECULAR HETEROGENEITY AND BREAST CANCER

#### Related Publications:

16. Ghosh Roy Abhishikta, Purkait P, Raha O, Das G, Barman Malay, Roy R, B.N Sarkar and **Bandyopadhyay Arup R.** 2015. Association between the Polymorphism of the Angiotensin - Converting Enzyme Gene and Breast Cancer Risk among the Bengalee Caste Hindu Females of West Bengal, India. *International Journal of Forensic Science & Pathology.* 3(2): 85-88 [ISSN 2332-287X] (SciDoC Publishers. ICV: 5.5)
17. Ghosh Roy Abhishikta, Pulakes Purkait, Malay Barman, Biswanath Sarkar and **Bandyopadhyay Arup R.** 2014. Association of Lifestyle Variables with The Novel Mutation of BRCA1 Gene in Breast Cancer: A Case control Study among the Bengalee Hindu Females of West Bengal, India. *World Journal of Pharmacy and Pharmaceutical Sciences.*3(6):1213-1225 [ISSN: 2278 – 4357] [SJIF - Scientific Journal Impact Factor (2.786)]
18. Abhishikta Ghosh Roy, BN Sarkar, Rakesh Roy, VR Rao, **Bandyopadhyay Arup R.** 2012. Absence of P53 Gene Mutations in Exons 5 - 7 among Breast Cancer Patients of Bengalee Hindu Caste Females, West Bengal, India. *Asian Pacific Journal Cancer Prevention* 13: (9): 4477-4479 [ISSN:1513-7368 (print); ISSN: 1513-7368 (online) [PMID: 23167364]

#### PhD Awarded:

- 2014: **A Study on BRCA1 and BRCA2 Genes among the Bengalee Hindu Female Breast Cancer Patients of West Bengal, India**  
[Dr. Abhishikta GhoshRoy, Anthropologist (Physical), Anthropological Survey of India, Govt. of India (Ministry of Tourism & Culture) Nagpur]

### CYTOGENETICS (INACTIVATED X CHROMOSOME) AND BREAST CANCER

#### Related Publications:

19. Mukherjee Koel, Burman M and **Bandyopadhyay Arup R.** 2014. Prevalence of Sex Chromatin in Bengalee Caste Hindu Females: Study on Interrelationship of Hormones. *International Journal of Physical and Social Sciences.* 4 (11), 68-76 (ISSN: 2249-5894)
20. Mukherjee Koel, Pulamaghatta N. Venugopal, Barman Malay Kumar and **Bandyopadhyay Arup R.** 2014. Sex chromatin frequency variation among breast cancer patients and normal females of two reproductive stages from Bengalee Hindu females. *International Journal of Biological and Medical Research.* 5(3): 4150-4155 [ISSN:0976-6685] [ICV 4.32 (2010)]
21. Mukherjee Koel, Barman Malay Kumar and **Bandyopadhyay Arup R.** 2014. Sex Chromatin Prevalence in Bengalee Hindu Females: A Comparative Study on Breast Cancer. *International Journal of Public Health Research & Management.* 1(1): 1–6 [ISSN (Online) : 2319-5509]

#### PhD Awarded:

- 2015: **Sex Chromatin Prevalence in Bengalee Hindu Caste Females: A Comparative Study of Breast Cancer**  
(Dr. Koel Mukherjee, Department of Anthropology, Haldia Govt. College, Midnapore, West Bengal, India)

### DERMATOGLYPHICS AND MEDICAL DISORDER

#### Related Publications:

22. Dey B, Das P, Ghosh JR, **Bandyopadhyay Arup R.** 2017. A study on C Line polymorphism among the Austistic patients of Bengalee Hindu Caste Population. *Journal of the Department of Anthropology, University of Calcutta* Vol. 16-17 (1 & 2): 59-65. (ISSN: 2249-6181)
23. Ghosh JR, Ghosh Dastidar P, Dey B, Das P, **Bandyopadhyay Arup R.** 2017. Palmar dermatoglyphic traits in type 2 diabetes mellitus patients of Bengalee Hindu caste population of West Bengal, India: a cross-sectional study. *Journal of Biomedical Sciences* 3(2):18-23 (ISSN: 1021-7770. E-ISSN:1423-0127) (IMF 1.008)
24. Dey B, Das P, Ghosh JR, **Bandyopadhyay Arup R.** 2017. A study on C Line polymorphism among the Austistic patients of Bengalee Hindu Caste Population. *Journal of the Department of Anthropology, University of Calcutta,* 16-17 (1 & 2): 59-65. (ISSN: 2249-6181)
25. Ghosh JR, Ghosh Dastidar P, Dey B, and **Bandyopadhyay Arup R.** 2016. Finger and Palmar Ridge Pattern in NIDDM Patients and Controls. *Human Biology Review:* 5(1)86-91 [ISSN: 2277 4424]

26. Biswarup Dey, Jyoti Ratan Ghosh, Piyali Das, and **Bandyopadhyay Arup R.** 2015. A study on transpalmar distance among the autistic males of Bengalee Hindu caste population of West Bengal, India. *Clinical Dermatology*. 3: 41-43. [CIC Edizioni Internazionali, Italy]
27. Das Piyali and **Bandyopadhyay Arup R.** 2015. 2D:4D Finger Ratio among the E Beta Thalassemia Males of Bengalee Hindu Caste Population, West Bengal, India. *European Journal of Biomedical and Pharmaceutical sciences*. 2(4): 389-392 [ISSN 2349-8870] [SJIF Impact Factor: 3.881]
28. Das Piyali, Ghosh Jyoti Ratan and **Bandyopadhyay Arup R.** 2015. Association of Finger Ridge Pattern and E-Beta-Thalassemia: A Study on Bengalee Population of West Bengal, India. *Advances in Anthropology*. 5: 19-21 (ISSN Print: 2163-9353; ISSN Online: 2163-9361)
29. Das Piyali and **Bandyopadhyay Arup R.** 2014. A Study on Main Line Index among the E- $\beta$  Thalassemia Patients of Bengalee Hindu Caste Populations of West Bengal, India. *The Indian Journal of Anthropology*. 2: 85-94. [ISSN 2320-3757]
30. Biswarup Dey, Jyoti Ratan Ghosh and **Bandyopadhyay Arup R.** 2014. A Study on palmar axial triradius among the Autistic Patients of Bengalee Hindu caste Population of West Bengal. *International Journal of Biomedical Research* 5 (11): 715-716 [ISSN 0976-9633] [NLM Unique ID: 101608876]
31. Jyoti Ratan Ghosh, Madhumati Chatterjee, Wasim Raja and **Bandyopadhyay Arup R.** 2011. Study on Finger and Palmar Dermatoglyphics among the Sunni Muslims of West Bengal. *The Anthropologist* 13(2):107-109 [ISSN: 0257- 7348]

#### PhD Thesis Submitted

- **A Study on Dermatoglyphics Traits in Bengalee Hindu Caste Population with Special Reference to Thalassemia**  
(Ms. Piyali Das, Assistance Professor, Department of Anthropology, Dinabandhu Mahavidyalaya, Bongaon)  
[Pre submission PhD Seminar Approved]

## GENETIC MARKER POLYMORPHISM AND DISEASE/DISORDER (MEDICAL GENETICS) & POPULATION GENETICS

#### Related Publications:

32. Das Priyanka, Sarkar Pranabesh, Chatterjee Diptendu, **Bandyopadhyay Arup R.** 2018. Genetic Variation and Population structure: A study on four populations of Tripura, North East India. *Asian Journal of Medical Sciences*. 9(3): 45-48 (E-ISSN: 2091-0576; P-ISSN: 2467-9100) DOI: 10.3126/ajms.v9i3.19492
33. Sarkar Pranabesh, Dutta Piyali, Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2018. Genetic Variation and Population structure: A study on the Tipuris and Hrangkhawls of Tripura. *Journal of Indian Anthropological Society*. 53: 21-27 [ISSN 0019-4387]
34. Sarkar Pranabesh, Das Priyanka, Dutta Tamal, Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2018. Association of ABO Blood Group with the Prognosis of Gynecological Cancer Patient: A Study on Bengali Hindu Caste Group of West Bengal, India. *Indian Journal of Gynecology and Oncology* 16: 12: 1-5 (<https://doi.org/10.1007/s40944-018-0180-2>). (Print ISSN 2363-8397. Online ISSN 2363-8400) (Springer India)
35. Ganguly sourav, Sarkar Pranabesh, Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2016. Association of ABO Blood Group Polymorphism and Tuberculosis: A study on Bengalee Hindu Caste Population, West Bengal India. *Indian Journal of Tuberculosis* (published online <http://dx.doi.org/10.1016/j.ijtb.2016.09.014>)
36. Sarkar Pranabesh, Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2016. A Study On The Association Of ACE I/D Gene Polymorphism, Obesity, Blood Pressure And Susceptibility Of Type 2 Diabetes Mellitus Among The Kurmis Of West Bengal, India. *Journal of Immunology and Genealogy*. 1: 1-8
37. Ghosh Roy Abhishikta, Purkait P, Raha O, Das G, Barman Malay, Roy R, B.N Sarkar and **Bandyopadhyay Arup R.** 2015. Association between the Polymorphism of the Angiotensin - Converting Enzyme Gene and Breast Cancer Risk among the Bengalee Caste Hindu Females of West Bengal, India. *International Journal of Forensic Science & Pathology*. 3(2): 85-88 [ISSN 2332-287X]
38. Ghosh Roy Abhishikta, Sarkar Pranabesh and **Bandyopadhyay Arup R.** 2015. Haptoglobin Polymorphism and Diabetic Nephropathy: A Study among the Bengalee Hindus of West Bengal. *World Journal of Pharmaceutical Sciences*. 3: 628-631. [ISSN (Print): 2321-3310; ISSN (Online): 2321-3086] [SJIF - Scientific Journal Impact Factor (2.786)]
39. C. Ravel, B. El Houate, S. Chantot, D. Lourenço, A. Dumaine, H. Rouba, **Bandyopadhyay Arup R.**, U. Radhakrishna, J. Mandelbaum, J. P. Siffroi and McElreavey K.. 2006. Haplotypes, mutations and male fertility: the story of the testis-specific ubiquitin protease USP26. *Molecular Human Reproduction* 12, (10) 643–646 [PMID: 16888075] (IMF: 3.747) (Oxford Journal)
40. **Bandyopadhyay Arup R.** and Jayita Ghoshal Roy: 2005: Interaction between Haptoglobin subtypes and ABO Blood Groups in a Bengalee Population. *Anthropologischer Anzeiger* 63: 3: 335-340 [PMID: 22338799] [Germany]
41. Ghosh Jyoti Ratan and **Bandyopadhyay Arup R.**: 2005. ABO Blood Groups and Cancer in a Bengalee Populations. *Indian Journal of Physical Anthropology & Human Genetics* 24: 69-73 (ISSN: 0378-8156)
42. **Bandyopadhyay Arup R.**: 2002: A study on Kell and Duffy Blood group Systems in a Bengali Population. *South Asian Anthropologist* 2: 59-62 [ISSN: 0257- 7348]
43. Hoque J & **Bandyopadhyay Arup R.**: 1995: PTC taste sensitivity among the Muslims of Calcutta. *Journal of Human Ecology* 2 (6): 151 – 153. [ISSN:0970-9274]
44. **Bandyopadhyay Arup R.**: 1994: A Study on Blood Groups and Serum Proteins in Bengalee Population in Calcutta. *Anthropologischer Anzeiger*. 52: 215–219 [PMID: 22338799] [Germany]
45. **Bandyopadhyay Arup R.**: 1994: A Mother-child Combination Analysis for ABO – HP interaction in a Bengalee Population. *Human Heredity* (International Journal of Human and Medical Genetics) 44: 68 – 71. [ISSN: 0001-5652 (Print); e-ISSN: 1423-0062 (Online); DOI: 10.1159/issn.0001-5652] [IMF: 1.474] [Karger, Basel, Switzerland]

46. Roy Choudhury A B and **Bandyopadhyay Arup R.**: 1994: A note on six blood groups (A, A, BO, Rh, MNS, Kell, Duffy) in a Bengalee Population. *Bull. Department of Anthropology, University of Calcutta*, pp 95 – 100.
47. **Bandyopadhyay Arup R.**: 1993: A Parental Combination Analysis for ABO – HP Interaction in a Bengali Population. *Human Genetics* 91(14): 377 – 379. [ISSN: 0340-6717 (Print) 1432-1203 (Online)] [IMF: 4.824] [Springer Publication]
48. Hoque J. and **Bandyopadhyay Arup R.**: 1993: A Study on red cell 'H' substance in Muslims. *Journal of Human Ecology* 4(2): 151 –154.
49. **Bandyopadhyay Arup R.**, Banerjee A.R. & Banerjee S.: 1992: Haptoglobin Subtypes in a Bengalee Population Sample. *Anthropologischer Anzeiger*. 4: 303 – 305. [PMID: 22338799]
50. **Bandyopadhyay Arup R.**: 1992: Interaction between ABO and Haptoglobin Systems in a Bengalee Population. *Human Heredity* 42: 201 – 203 [ISSN: 0001-5652 (Print); e-ISSN: 1423-0062 (Online);DOI: 10.1159/issn.0001-5652] [IMF: 1.474] [Karger, Basel, Switzerland]

**PhD Registered:**

- **Association of CAPN10, FTO, PPAR, MTHFR gene polymorphisms, obesity and susceptibility of Type2 Diabetes Mellitus: A Study on the Bengalee Hindu Caste population of West Bengal, India**  
[Sri Pranabesh Sarkar, Senior Research Fellow (UGC – NET)]

## REPRODUCTIVE HEALTH

**Related Publications:**

51. Roy A G., Sarakar BN and **Bandyopadhyay Arup R.** 2018. Oral Contraceptives and Breast Cancer risk: A Study among the Bengalee females of West Bengal. *Cell & Cellular Life Science Journal*. 3(1): 1-4
52. Mukherjee Koyel, Chatterjee Diptendu, **Bandyopadhyay Arup R.** 2018. X Chromatin inactivation in Menopause: A study on Hindu caste Bengalee population. *Asian Journal of Medical Sciences*. 9(3): 41-44 (E-ISSN: 2091-0576; P-ISSN: 2467-9100) DOI: 10.3126/ajms.v9i3.19434
53. Roy AG, Sarkar BN and **Bandyopadhyay Arup R.**. 2018. Oral Contraceptives and Breast Cancer Risk: A Study among the Bengalee Females of West Bengal, India. *Cell & Cellular Life Sciences Journal*. 3(1):1-4.
54. Das D, Mukherjee G, Sarkar P, Sil AK, Chatterjee D and **Bandyopadhyay Arup R.** 2016. Association of Earwax type, Colostrums secretion and Types of human Axillary Microbiom: A study on Bengalee Hindu Caste females of West Bengal, India. *Human Biology Review*, 5(4), 465-470. (ISSN: 22774424)
55. Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2015. A preliminary study on perception of cervical cancer. *International Journal of Scientific and Research Publications*. 5: 1-4 [ISSN 2220-3153]
56. Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2015. A study on use of contraceptive and awareness among the Bengalee population of kolkata. *International Journal of Social Science & Interdisciplinary Research*. 4 (7): 61-66 [ISSN 2277-3630]
57. **Bandyopadhyay Arup R.**, Diptendu Chatterjee, Madhumati Chatterjee, Jyoti Ratan Ghosh. 2011. Maternal Fetal Interaction in the ABO system: A Comparative Analysis of Healthy Mother and Couples with Spontaneous Abortion in Bengalee Population. *American Journal of Human Biology*. 23:76-79. [PMID: 21080445] [Online ISSN: 1520-6300] [IMF: 1.70] [Willey online Library] (doi: 10.1002/ajhb.21102.)
58. Ghosh JR, Basak S and **Bandyopadhyay Arup R.** 2009 A study on nutritional status among young adult Bengalee females of Kolkata: effect of menarcheal age and per capita income. *Anthropologischer Anzeiger* 67:13-20 [PMID: 19462671] [Germany]
59. Jyoti Ratan Ghosh and **Bandyopadhyay Arup R.** 2005. Age at menarche and its relationship with some anthropometric variables among Bengalee females of West Bengal, India. *Indian Journal of Physical Anthropology & Human Genetics*. 24(2): 177-185. [ISSN: 0378-8156]
60. **Bandyopadhyay Arup R** and Ghoshal Roy J. 2002. A Study on the Role of Haptoglobin in Haemolytic Disease of the Newborn *International Journal of Human Genetics*, 2: 187-195. [ISSN: 0378-8156].
61. **Bandyopadhyay Arup R.**: 1995: A study on Haptoglobin groups and birth weight in a Bengalee Population. *American Journal of Human Biology* 7: 711 – 714. [Online ISSN: 1520-6300] [IMF: 1.70] [Willey online Library] (doi:10.1002/ajhb.1310070605)
62. **Bandyopadhyay Arup R.**: 1992: A Study on Fetal Wastage and Blood Groups in Bengalee Population. *Journal of Human Ecology* 3(2): 159 – 161 [ISSN:0970-9274]
63. **Banerjee Arup R.**, Banerjee A.R. Banerjee S. 1987: A study on Haptoglobin in relation to Birth Weight. *Indian Journal of Physical Anthropology & Human Genetics* 13(1): 1-8. [ISSN: 0378-8156]

**PhD Awarded:**

- **2008: Study of Reproductive Life of the Santal females of West Bengal and Bangladesh**  
(Dr. Manshi Das, Tripura University, Agartala, Tripura)

## TRIBAL/COMMUNITY HEALTH AND NUTRITIONAL STATUS

**Related Publications:**

64. Ghosh Roy, Abhisikta, Maity Madhuparna, Dasgupta Monimekhla and **Bandyopadhyay Arup R.** : 2016. Childhood obesity: A study among the two Socioeconomic groups of Kolkata, West Bengal. *Journal of Social Science and Humanities Research*. 1 (11) 22-29 [ISSN:2456-2971]
65. Chatterjee Diptendu, Chanda Sudebna and **Bandyopadhyay Arup R.** : 2005: Comparative study on Anthropometry and central body fat distribution of pre-menarcheal and post-menarcheal Santal girls of Jharkhand. *Tribe and Tribal Studies*. 3(2): 133-136 [ISSN:0972-639X]
66. Ghosh A., Chatterjee D., **Bandyopadhyay Arup R.** and DasChaudhuri A. B. 2006. Age and sex variation of Body Mass Index and Waist Circumference among the Santal children of Jharkhand. *Anthropologischer Anzeiger* 64: 83-89. [PMID: 16623091] [Germany]

67. Diptendu Chatterjee, Jyoti Ratan Ghosh, Sudeshna Chanda, and **Bandyopadhyay Arup R.** 2006. Relationship between anthropometric measurements and body composition among Santal girls aged between 6-18 years of Galudih, Jharkhand, India. *The Anthropologist*. 8(4): 241-243. [ISSN: 0972-0073]
68. **Bandyopadhyay Arup R** and Saha Atrayee.: 1999: A study on nutritional assessment among Oraons of Dhultikuri Village, Birbhum District, West Bengal. *Bull. Dep. of Anthropology, Dibrugarh University, Assam* Vol. 27: 74 – 82. [ISSN: 0976-2264]
69. Hoque J. and Bandyopadhyay **Arup R.**: 1992: Consanguinity among the Muslims of West Bengal, India. *Journal of Indian Anthropological Society* 27(1): 90 – 94. [ISSN 0019- 4387]
70. **Bandyopadhyay Arup R.**: 1992: Malaria – A Biosocial Profile. *Journal of Save the Environment*. 1 (2): 58 – 61.

**PhD Awarded:**

- **2010: Anthropometry and body composition in Mundari and Dravidian speaking populations of India**  
(Dr. Diptendu Chatterjee, Assistant Professor, Department of Anthropology, University of Calcutta)

**PhD Registered:**

- **2016: Health Condition And Disease of The Aged: A Study on Bhumij and Santals of West Bengal, India.**  
(Joint Supervisor)  
(Sri Swapan Kumar Sardar, PhD Research scholar, Department of Anthropology, University of Calcutta)

## ANTHROPOMETRY AND NON COMMUNICABLE DISEASE

**Related Publications:**

71. Chatterjee D and **Bandyopadhyay Arup R.** 2017. Patterning of Body Mass Index and Arm Span based BMI in Fisherman Community of Sunderban Delta, India. *Genus Homo*. 1: 32-42 (Department of Anthropology, West Bengal State University).
72. Jyoti Ratan Ghosh, Swastika Roy and **Bandyopadhyay Arup R.** 2016. Anthropometric Indicators as Predictor of Hypertension in Immigrant Tamil Women. *Indian Journal of Research in Anthropology*. 2(1): 29-33 [p-ISSN 2454-9118; e-ISSN 2455-829X]
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80. Khatoun Z, Tapadar JR, Chatterjee D, Chanda S, Ghosh JR, **Bandyopadhyay Arup R.** 2008. Relationship between anthropometric measures and body composition among Muslim females of West Bengal, India. *Anthropologischer Anzeiger* 66 (3):349-353. [PMID: 18924572] (Included in Worldscience.Org as Sample records for including anthropometric measurements)
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84. Jyoti Ratan Ghosh and **Bandyopadhyay Arup R.** 2006. Income, birth order, siblings and anthropometry. *Human Biology*. 78(6): 733-741. [ISSN 0018-7143] [Wayne State University Press, USA] [IMF:1.522]
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86. Jyoti Ratan Ghosh and **Bandyopadhyay Arup R.** 2005. A study on nutritional status among 6 to 12 years semi-urban Bengalee boys of West Bengal. *Journal of the Department of Anthropology, University of Calcutta*. 9(1-2) 121-125. (ISSN: 2249-6181)

**PhD Awarded:**

- **2008; A Study on Anthropometric Variables and their Relationship with Some Metabolic and Physiological Risk Factors of Type-2 Diabetes Mellitus among Adult Bengalee Hindu Males Of West Bengal, India**  
(Dr. Jyoti Ratan Ghosh, Assistant Professor, Department of Anthropology, Visva Bharati)

**PhD Registered:**

- **Type 2 Diabetes Mellitus Risk in Females: Comparative Evaluation of Anthropometric and Lifestyle Variables in Rural and Urban Areas of West Bengal**  
(Ms. Sohini Basak, Former DST Inspire Fellow)

- **Anthropometry and blood pressure in adult women: a comparative evaluation of their relationship in two ethnic groups of West Bengal, India**  
(Ms. Priyanka Das, SVSGF, Fellow – UGC)

### ARCHAEOLOGICAL ANTHROPOLOGY

#### Related Publications

87. Ghosh Jyoti Ratan, Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2017. A preliminary survey at Kangshabati, Dulung and Tarafeni River Valley in Midnapore District: An Exploration. *The Asian Man.* 11(2): 155-158. [Print ISSN: 0974-6366; Online ISSN: 0975-6884 ] (DOI:10.5958/0975-6884.20170024.X)

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88. Dey Saheli, Sarkar Pranabesh, Chatterjee Diptendu, **Bandyopadhyay Arup R.** 2018. Anthropology of Microbes: A Study on Kitchen Micro Flora from West Bengal, India. *International Journal of Microbiology and Application* (accepted) [ISSN Print: 2381-442X; ISSN Online: 2381-4438]
89. Das P, Ghosh JR, Chatterjee D and **Bandyopadhyay Arup R.** 2018. Inheritance of Craniofacial Indices: A Study on Bengalee Hindu Population of West Bengal, India. *Anthropology and Ethnology Open Access Journal.* 1(1):1-6
90. **Bandyopadhyay Arup R.** 2017. Eating disorder/and or eating behavior researches from West Bengal, India: Suppressing the facts?? *Asian Journal of Medical Sciences* 8(2): 14-19 (e-ISSN: 2091-0576 p-ISSN: 2467-9100. DOI: <http://dx.doi.org/10.3126/ajms.v8i2.16395>)
91. Majumdar Joydhis, Sarkar Pranabesh, Chatterjee Diptendu, and **Bandyopadhyay Arup R.** 2015. A Study on Orbital Linear Measurements among Bengalee Population. *International Journal of Scientific and Research Publications.* 5 (11): 475-478. [ISSN 2250-3153]
92. Chatterjee Diptendu and **Bandyopadhyay Arup R.** 2015. Perception of Self Medication among the University Student of Kolkata. *International Journal of Development Research.* 6(7):5065-5069. [ISSN: 2230-9926]
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96. Banerjee Atryaee, **Bandyopadhyay Arup R** and Chakrabarti Nirmal Kanti. 2015. Occupational pattern and forest based livelihood of the Santals of Purulia, West Bengal, India. *KIIT Journal of Law and Society.* 5(1). 108-126 [ISSN: 2231-5144]

#### PhD Submitted:

- **Forest Rights: A Study of Indigenous Group of West Bengal, India**  
(Ms. Atrayee Banerjee, Former UGC-JRF, Currently Guest Lecturer, Basanti Devi College, Kolkata & Guest Faculty, PG Course In Human Rights, Department of Anthropology, University of Calcutta) [Human Rights]

## 11 b) Books/ book chapters

### Human Rights: (Book)

**Human Rights and Issues: An ethnographic study in a Jharkhand Village.** Lambert Academic Publishing. LAP LAMBERT Academic Publishing Saarbrücken, Germany [ISBN-10: 3330075384; ISBN-13: 978-3330075382]

### Book Chapters

#### Research area: Hair Study: Variation of Primate and Evolutionary Biology

97. Chatterjee Madhumati and **Bandyopadhyay Arup R** 2017. Biophysical Properties of Human Scalp Hair: A Study on the Variation of Water Absorption Among the Two Ethnic Groups from India. In, Sengupta S (Edts). *Contemporary Anthropological Research in Eastern and North Eastern India.* Pp 79-86 [ISBN : 978-81-212-1358-5]
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#### Research area: Forensic Anthropology

100. Das S., Ghoshal Roy J. and **Bandyopadhyay Arup R.** 2002. Reconstruction of Stature Lower Extremity Bone Dimensions among Bengali Males of Birbhum, West Bengal. In, M. K. Basin and S. Nath (eds.) *Proceeding Volume of the National Seminar on Role of Forensic Science in the New Millenium,* Chapter. 16, pp.131-147.

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#### Research area: Dermatoglyphics and Medical Disorder

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91. Das Piyali, Ghosh JR and **Bandyopadhyay Arup R**. 2018. Finger ridge counts and 'atd' angle among the E- $\beta$  Thalassemia Patients of Bengalee Hindu Caste Populations of West Bengal. In, Recent Trends in dermatoglyphic research (Commemoration Volume in Memory of Late Professor Ramesh Chaube). Edts (Dipak kumar Adak and Anand Murti Mishra). B.R. Publishing Corporation, delhi pp 153-162. [ISBN - 9789386223722]
92. Banerjee A.R., Banerjee S. and **Bandyopadhyay Arup R**., Pal S.C. & Banerjee S.P. 1992: A note on Dermatoglyphic Features of Down's Patients. In, *Dermatoglyphics Today*. Reddy, B.M., Sarkar, B.N. & Roy S.B. (edits) Indian Institute of Biosocial Research & Development, Indian Statistical Institute. Anthropological Survey of India. Pp. 206 – 209.

#### Research area: Genetic marker Polymorphism and disease/disorder (Medical Genetics)

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94. Chatterjee D and **Bandyopadhyay Arup R**. 2004. A study on ABO blood group Segregation distortion in the Bengalee Population. *Proceeding Volume of the National Seminar on Recent Trends in Human Biology*. University of Calcutta.
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#### Research area: Anthropometry and Non communicable disease

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#### Research area: Reproductive Health

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98. Das M., Ghosal Roy J. and **Bandyopadhyay Arup R**. 2002. A Study on Body Mass Index and Age at Menarche in Munda Tribal Population of West Bengal. *Proceedings of the Conference of International Union of Anthropological and Ethnological Sciences (IUES), Tokyo, Japan*
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#### Others:

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#### **11 c) Conference / Seminar volumes:**

1. 1986: A Study on Haptoglobin in relation to birth weight of the new born. *Proc. 73rd Ind. Sci. Cong. Assoc.* (New Delhi) Part III pp 15.
2. 1987: A Study on ABO Groups and Haptoglobin Interaction. *Proc. 74th Ind. Sci. Cong. Assoc.* Part III. pp
3. 1987: Birth Weight in ABO Blood Group and Haptoglobin Interaction. *Proc. Mother Child Health Status & XII Annual Conference of Indian Society of Human Genetics* (Calcutta). Pp 46.
4. 1987: Haptoglobin in ABO Incompatibility: A Study on Protective Immunological Interaction. *Proc III Annual Scientific Conference. Vivekananda Institute of Medical Sciences.* (Calcutta).
5. 1988: A Study on Haptoglobins in ABO Incompatibility. *Proc 75th Ind. Sci. Cong. Assoc.* Part III. pp 18.
6. 1989: Haptoglobins in Bengalee Caste Groups. *Proc. 76th Ind. Sci. Cong. Assoc.* (Madurai). Pp 7.
7. 1989: Haptoglobin in Medico-legal cases. *Proc. National Seminar on Identification in Forensic Sciences. Indian Academy of Forensic Sciences.* (Calcutta).



8. 1990: Haptoglobin in HDN. *Proc. VI Annual Scientific Conference, Vivekananda Institute of Medical Sciences*. (Calcutta).
9. 1990: Segregation Study of Haptoglobin in 110 Bengalee families, *Proc. Annual Conference of the Indian Anthropological Society* (Calcutta). pp 9.
10. 1991: Haptoglobin Polymorphism. *Proc. Young Scientist Award Program 78th Ind. Sci. Cong. Assoc.* (Indore). Part III. pp 29 – 30. **(Awarded: Young Scientist Award)**
11. 1992: Selection and Polymorphism [ABO, Rh(D), HP] in a Bengalee Population. *Proc. J.B.S. Haldane Birth Centenary Celebration (Indian Statistical Institute, Calcutta)*. pp 3.
12. 1992: Intra-uterine ABO Incompatibility Selection. *Proc. J.B.S. Haldane Birth Centenary Celebration (Indian Statistical Institute, Calcutta)*. pp 4.
13. 1994: Family Study for Segregation Analysis of Haptoglobin Groups. *Proc. Annual Conference of Indian Anthropological Society*. (Visva Bharati, Santiniketan).
14. 1995: A Study of Haptoglobin Groups and Aborted Fetus in a Bengalee Population. *Proc. 81st Ind. Sci. Cong. Assoc.* Part II. Pp 22.
15. 1996: A Study on ABO Blood Groups and Haptoglobin in Haemolytic Disease of the New Born. *Proc. Seminar on Man & Environment Interrelationship*. (Dept. of Anthropology, University of Calcutta, Calcutta).
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17. 1997: A Study on Nutritional Anthropology of Mundas of Midnapore, West Bengal. *Proc. National Seminar on Genetic Disorder and Malnutrition in India*, Bhubaneswar.
18. 1998: Some Aspects of Health and Nutritional Status of Munda Children of Midnapore District of West Bengal, India. *The 14th International Congress of Anthropological and Ethnological Sciences. The International Union of Anthropological & Ethnological Sciences*. Pp 45. Virginia (USA).
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20. 1998: A Study on Haptoglobin Groups and Fetal Wastage in a Bengali Population. *4th International Symposium on Genetics, Health & Disease. Guru Nanak Dev University, Amritsar, India, (Dec. 1 – 4, 1998)* Abstract No. 76. pp 008.
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22. 2002: A Study on Body Mass Index and Age at Menarche in Munda Tribal Population of West Bengal. *Proceedings of the Conference of International Union of Anthropological and Ethnological Sciences (IUES)*, Tokyo, Japan.
23. 2002: Segregation distortion in ABO mating types. Session: Genetic Polymorphism and Variation. *Proc. National Seminar on Man and Environment: Recent Trends in Human Biology (UGC-DISA)*, Department of Anthropology, University of Calcutta, India.
24. 2002: A Study on the Reproductive Performance of Munda Females of Narayangarh, West Midnapore. Session: Women Studies. *Proc. National Seminar on Man and Environment: Recent Trends in Human Biology (UGC-DISA)*, Department of Anthropology, University of Calcutta, India. (September 2002)
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26. 2005: Enough physical activity can decrease the health risk in Bengalee population. *Proc. 12th West Bengal State Science and Technology Congress*. 2005.
27. 2005: Anthropometric measures, body fat distribution and blood pressure among adult Hindu women of Kolkata. *Proc. National Seminar on Human Diversity in India: Issues and Perspectives*. Department of Anthropology. University of Calcutta.
28. 2005: Effect of age and sex on anthropometry: A study on sexual dimorphism. *Proc. 92nd Indian Science Congress*.
29. 2005: Obesity and blood pressure. *Proc. 12th West Bengal State Science and Technology Congress*.
30. 2006: Blood pressure: A study on sexual dimorphism. *Proc. 13th West Bengal State Science and Technology Congress*.
31. 2007: A study on central obesity and hypertension in a Bengalee population. *Proc. The International Seminar on Human Diversity in Perspectives*. Department of Anthropology. University of Calcutta.
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33. 2008: Receiver operating characteristic (ROC) curve analysis in 5-15 years old Bengalee girls. *Proc. The National Seminar on Human Diversity: The Emerging Perspectives*. Department of Anthropology. University of Calcutta.
34. 2008: Maternal fetal interaction in the ABO and haptoglobin system: a comparative analysis of healthy mother and couples with spontaneous abortion in Bengalee population. *Proc. The National Seminar on Human Diversity: The Emerging Perspectives*. Department of Anthropology. University of Calcutta.
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43. 2011: Prevalence of sex chromatin in menopausal and post menopausal Bengalee females. *UGC sponsored National Seminar on Diversity, Social Exclusion, Backwardness and Development*. Department of Anthropology, University of Calcutta (March 22-25, 2011)
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49. 2011: Factor Analysis of Hypertension and Type 2 Diabetes Risk. *Proc. 98th Indian Science Congress. Anthropological and Behavioural Sciences Section*. Chennai (January 3-7, 2011) pp 2-3
50. 2011: Waist Stature Ratio as a Measure of Obesity and Body Fat Composition in Asian Indians. *Proc. 98th Indian Science Congress. Anthropological and Behavioural Sciences Section*. Chennai (January 3-7, 2011) pp 3
51. 2011: A Study on Finger Pattern in Cancer Patients of Bengalee Caste Hindu Population. *Proc. 98th Indian Science Congress. Anthropological and Behavioural Sciences Section*. Chennai (January 3-7, 2011) pp 28
52. 2011: Marriage Patterns of Bengalee Hindu Society: Relevance of Cultural Dynamics. *Proc. seminar on Religio-Cultural Dynamics & Social Exclusion and Inclusion in India*, Centre for the Study of Social exclusion and Inclusive policy (CSSEIP), Tripura University (April, 2011) (invited Lecture)
53. 2012: Variation of Primate Hair: An Approach to Evolutionary Aspect. *National Seminar on Contemporary Issues in Human Biology in the 21st Century Punjabi University*, Patiala (March 31 and April 1, 2012)
54. 2013: Repositioning Application of Anthropology for the Future Shape of the Society. *Presidential Address. 100th Session of Indian Science Congress* (January 3-7, 2013)
55. 2013: Repositioning Application of Anthropology for The Future Shape of the society. *Invited Lecture 43rd Annual Conference of The Indian Anthropological Society* (March 8-9, 2013)
56. 2013: A Study on Nutritional Status of Adolescent Children in West Bengal. *Proc. 43rd Annual Conference of the Indian Anthropological Society* (March 8-9, 2013). Pp23
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58. 2013: A Study on the development of Foot Arch among Bengalee Children. *Proc. 43rd Annual Conference of the Indian Anthropological Society* (March 8-9, 2013). Pp36
59. 2013: A Study on Nutritional Status of Adolescent Children in West Bengal. *Proc. 43rd Annual Conference of the Indian Anthropological Society* (March 8-9, 2013). Pp23
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62. 2013: A Study On Dermatoglyphics Finger Patterns Among The E-Beta Thalassemia Patients From Bengalee Hindu Caste Population, West Bengal. *Proc. Current Trends in Research on Biological Anthropology in West Bengal. Indian Statistical Institute*, Kolkata. March 20-21, 2013
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68. 2014b: A study on some dermatoglyphic variables among the Bengalee Hindu E- beta thalssemia patients of West Bengal. *Proc 11th Indian Anthropol Conf (Dibrugarh 21st-23rd Feb 2014) pp73.*
69. 2015: Main Line Index in E-Beta Thalassemia Patients: A Study on Bengalee Hindu Caste Population of West Bengal, India. *Proc. 45th Annual Conference of The Indian Anthropological Society, Calcutta (May 23-25, 2015)*
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72. 2015: A preliminary study on cervical cancer among the Bengali women of Kolkata. *Proc. Indian Anthropological Congress. (Assam University, Diphu Campus, Assam. February 21-23, 2016)*
73. 2016: A Study on Bilateral distribution of Main Line Index among the Austistic Patients of Bengalee Hindu Caste Population of West Bengal, India. *Proc. Indian Anthropological Congress. (Assam University, Diphu Campus, Assam. February 21-23, 1016)*
74. 2016: A Study on Anthropometric, Physiological Variables and ACE Gene Polymorphism in relation to Type 2 Diabetes Mellitus (T2DM) of Kurmis of West Bengal. *Proc. National Seminar on Anthropology, Tribal Policies and Tribal development in India. West Bengal State University, Barasat (March 21-22, 2016)*
75. 2016: Comparative Study on Somatotype of Two Linguistically Different Ethnic Groups of India. *Proc. National Seminar on Anthropology, Tribal Policies and Tribal development in India. West Bengal State University, Barasat (March 21-22, 2016)*
76. 2018: Association of Vitamin D deficiency and anthropometric variables: A Study on Aged Bengalee Hindu Caste Population of West Bengal. *Proc. 105th Indian Science Congress. Anthropological and Behavioural Sciences Section (March 6-10, 2018). Manipur University. Manipur.*

#### 11 d) Other Publications:

- Dey Biswarup, Piyali Das and Bandyopadhyay Arup R. 2015. **Nritatwa, twakrehabidya o manoshik pratibandhakata. Pratispardhi barta. Pachimbanga raja pratibandhi sammilanir mukhopatra. 4: 37-39.**

### 11. Membership of Learned Society

- Life Member, Indian Science Congress Association
- Life Member, Indian Anthropological Society
- Life Member, Indian Academy of Forensic Sciences,
- Life and Founder Member, Indian National Confederation of Anthropological Association (INCAA)
- Life Member, Indian Science News Association
- Member, The Asiatic Society
- Member, Institutional Animal Ethics Committee, University of Calcutta Ministry of Environment, Forests & Climate Change, Animal Welfare Division, Govt. of India
- Former Chairperson Undergraduate Board of Studies in Anthropology, University of Calcutta

### 12. Patents: NIL

### 13. Invited Lectures delivered:

- **Invited Lecture: *Introduction and Paradigm shift of Forensic Science with special reference to Forensic Anthropology. In Certificate Course on Criminal Law, Criminal Justice and Criminology in 21<sup>st</sup> Century (15<sup>th</sup> Mach -16<sup>th</sup> April, 2018) Law School, KIIT, Bhubaneswar, Odhisa (March 25 and 26<sup>th</sup>, 2018)***
- **Invited Lecture: *Reaching the Unreached and Tribal Development: A Brief Discourse on Combating Childhood Communicable Diseases. 105<sup>th</sup> Indian Science Congress (Anthropological and Behavioural Science section). Manipur University (March 18, 2018)***
- **Invited Lecture: *Research Methodology: Some Contexts. Research Methodology Workshop in Anthropology. Jointly Organized by Department of Anthropology & Anthropological Survey of India. (March 11, 2018)***
- **Invited Lecture: *The Maternal fetal interaction in the ABO Blood group system: A comparative analysis of healthy mother and couples with spontaneous abortion in Bengalee population The International Conference on Gynecology, Obstetrics and Reproductive Medicine (GORM 2018) Bangkok 5-7, January, 2018***
- **Invited Lecture: *Faces of Ancient India from an Anthropological Perspective. First International Buddhist Conference: Rediscovering Gotama. Bangkok, Thailand (November 22-29, 2017)***
- **Resource Person, Lecture delivered on *Twins: Relevance In Biological Research* in PhD course work, Department of Zoology, University of Calcutta, Kolkata (September 01, 2017, 2017)**

- **Invited Lecture: *Tribal Development in West Bengal: A brief discourse on combating childhood communicable diseases.*** National seminar on Tribal Development of West Bengal, Culture Research Institute, Govt. Of West Bengal (June 15, 2017)
- **Invited Lecture: *Molecular heterogeneity of Male Breast Cancer*** in National Seminar On Role Of Anthropology In Public Health, Habra Sreechaitanya College, Habra, 24 Pgs (N) (March 18,2017)
- **Invited Lecture: *Ethnographic Methods and Gender Relations*** in TRAINING PROGRAMME ON Research Method in Gender and Labor Studies Jointly Organized by: **V.V. Giri National Labour Institute, (Ministry of Labour and Employment, Govt. of India) & Centre for Rural Studies, Department of Rural Management and Development, Tripura University,** (March 31, 2017)
- Resource person: delivered lecture on ***Demography: Relevance in Behavioral Science. Refresher's course*** in on the theme Theories and Practices in Anthropology and other Behavioural Sciences, Department of Anthropology, University of Calcutta (February 06, 2017)
- Resource Person, Lecture delivered on ***Twin Studies*** in Winter School on **Research Methods in Biology, at Biological Anthropology Unit, Indian Statistical Institute, Kolkata** (January 21, 2017)
- Resource person: **Refresher Course in Challenges and options in biological research in developing country** Topic: ***Symmetry and Asymmetry: Anthropological dimension,*** Department of Zoology, University of Calcutta (December 24, 2016)
- Invited as Resource Person: UGC sponsored Orientation course (Academic Staff College) ***The Genetics of Obvious Traits: Dermatoglyphics*** University of Calcutta. March 30, 2016
- Delivered Special Lecture on ***A Study on Socio Demographic aspects and Reproductive Performance in Bengalee Hindu Caste Population*** in the **Anthropology& Tribal Studies PG Department Sidhu-Kanho-Birsha University University, Purulia** (December 18, 2015).
- Invited as Resource Person: ICSSR Research Methodology Course on ***Research Methodology: Some Context West Bengal State University*** (December 14, 2015).
- Invited as Recourse person Refreshers Course in "***Indigenous Society and Culture, University of Burdwan (Academic Staff College)*** (October 21, 2014).
- Delivered Special Lecture on ***Symmetry and Asymmetry: Anthropological Dimensions*** Department of Anthropology, **West Bengal State University** (February 12, 2014).
- **Invited as a Resource Person** for the workshop on Research Methodology, Organized by the Department of Anthropology, West Bengal State University (December 02-11, 2013).
- Invited Lecture: ***Repositioning Application of Anthropology for the Future Shape of the society.*** 43rd Annual Conference of the **Indian Anthropological Society** (March 8-9, 2013)
- **Invited by EMRC, Manipur University, Imphal** as a Resource Person for Two -content module in Anthropology under the CEC-NME-ICT project following UGC model syllabus in Anthropology, 2012.
- **Invited Lecture: *Marriage Patterns of Bengalee Hindu Society: Relevance of Cultural Dynamics.*** National Seminar on Religio-Cultural Dynamics & Social Exclusion and Inclusion in India, Centre for the Study of Social exclusion and Inclusive policy (CSSEIP), Tripura University (April, 2011)
- **Invited Lecture: *Genes and society.*** 98th Indian Science Congress. (Anthropological and Behavioural Sciences Section). SRM University, Chennai (January 5, 2011)
- **Invited Lecture: *Application of Biological Anthropology in the field of Human health.*** National Seminar on Human Health: A Bio-Cultural Synthesis. Department of Anthropology West Bengal State University in collaboration with Anthropological Survey of India, Kolkata, (March 4-6, 2010)
- **Invited Lecture: Resource person:** Human Evolution Invite UGC sponsored Refresher course on Life Science: Thrust area **Exploring the vistas in Life Science** organized by Department of Botany, University of Calcutta (2007)
- **UGC Visiting Fellow,** Department of Anthropology, North Bengal University (2006 & 2007)
- Resource person, ***Digital and Forensic Evidences in Indian Criminology Congress, 1st International and 30th All India Criminology Conference of The Indian Society of Criminology*** Organized by Department of Law, University of Calcutta (Post-Centenary Golden Jubilee Celebration (2006-2007)
- **Delivered 2 lectures** in Anthropology, based on the **UGC's model curriculum for undergraduate students,** for the Higher Education Channel (Doordarshan; television), 2004-2005.

#### 14. Awards Honours:

- **National Scholarship holder** (Govt. of India) in Postgraduate study. 1983
- **Qualified National Eligibility Test** (Master's level) [NET] for **Junior Research Fellow** conducted by University Grants Commission (UGC) in 1986
- **Merit Award** for presentation of scientific paper for medical scientist Vivekananda Institute of Medical Sciences, University of Calcutta (1990)
- **Young Scientist Award** from Indian Science Congress Association (1991)
- **Recorder,** Anthropological and Behavioural Sciences, Indian Science Congress Association (2005 and 2006)
- **National Advisory Committee member** of National Conference on Community Genetics Approach in Prevention of Beta-Thalassaemia, Organized by Anthropological Survey of India, 2008.
- **Guest of honour,** National seminar on Religio-Cultural Dynamics & Social Exclusion and Inclusion in India, Centre for the Study of Social exclusion and Inclusive policy (CSSEIP), Tripura University (April, 2011)
- **President, Centenary session of Indian Science Congress** (Section: Anthropological and Behavioural Sciences), 2013
- **Chairperson,** International Seminar on Tribal Health: Issues, Challenges & Opportunities, Tripura University, Tripura (April 22-27, 2015)
- **Former Senate member,** University of Calcutta

## 15. Other notable activities:

### Training

- DNA Technology: Diagnosis of disease, sponsored by CSIR, New Delhi, Harvard University, USA (1992), Kolkata
- Workshop completed (21 days) on Human Genetics, Methods and Paradigm, Sponsored by Department of Biotechnology (DBT), Govt. of India, Organized by Indian Statistical Institute (ISI), Kolkata and Indian Institute of Chemical Biology (IICB) (1998)

### Other activities:

- **Member of the Program Committee** The International Conference on Gynecology, Obstetrics and Reproductive Medicine (**GORM 2018**) Bangkok 5-7, January, 2018
- **Visitor abroad:** The Roslin Institute, University of Edinburgh, Scotland, UK (2015)
- **Convener**, PhD Committee in Anthropology, University of Calcutta.
- **Coordinator (Former)**, PG Course in Human Rights, University of Calcutta
- **Former In-Charge**, Ambedkar Chair Professor in Anthropology, University of Calcutta
- Introduction of Biological Anthropology as specialization in Postgraduate syllabus in Anthropology, Palli Charcha Kendra, Visva-Bharati (Academic session 2000)
- Subject Expert Member Of The Syllabus Revision Committee (Under Graduate), West Bengal State Council of Higher Education, India
- PhD thesis evaluator of Indian Universities.
- Editorial Board member: The Journal of Biology, Indian Journal of Physical Anthropology & Human Genetics, Anthropology and Ethnology Open Access Journal, occasional reviewer of other National and International journals
- Fieldwork in Eastern and North East India
- **Joint Secretary** International Union of Anthropological and Ethnological Sciences, Kolkata (2005)
- **Head of the Department of Anthropology**, UCSTA, University of Calcutta: 1.01. 2004 to 31.12.2005
- **Interim, Head of the Department of Anthropology**, UCSTA, University of Calcutta: 23.10.2007 to 09.11.2007
- **Head of the Department of Anthropology**, UCSTA, University of Calcutta t: 1.01. 2008-31.12.2009
- **Head of the Department of Anthropology**, UCSTA, University of Calcutta t: 01.09.2014-31.08.2016

### Chairperson of different sessions:

- Indian Anthropology Congress – 2018 Indian National Confederation and the Academy of Anthropologists.
- *National Seminar on Anthropology, Tribal Policies and Tribal development in India.* West Bengal State University, Barasat (March 21-22, 2016)
- *Indian Anthropological Congress.* (Assam University, Diphu Campus, Assam. February 21-23, 2016)
- *44th Annual Conference of Indian Anthropological Society Golden Jubilee National Seminar* (Raipur 17th- 19th Jan 2014)
- *Indian Anthropological Conference* (Dibrugarh 21st-23rd Feb 2014)
- *National Seminar on Contemporary Issues in Human Biology in the 21st Century Punjabi University, Patiala* (March 31 and April 1, 2012)
- *National seminar on Religio-Cultural Dynamics & Social Exclusion and Inclusion in India*, Centre for the Study of Social exclusion and Inclusive policy (CSSEIP), Tripura University (April, 2011)
- *Digital and Forensic Evidences in Indian Criminology Congress*, 1st International and 30th All India Criminology Conference of the Indian Society of Criminology Organized by Department of Law, University of Calcutta (Post-Centenary Golden Jubilee Celebration (2006-2007))

### CLASS TAUGHT

#### Theoretical

- Primate evolution and hominid evolution
- The primate radiations to the hominids; the early hominids
- Linkage, Linkage disequilibrium and chromosome mapping, sex linkage
- Population genetics
- Twin genetics
- Mutations: chromosomal, genomic, and genic, gene enzymes
- Human Variation: Serological variants: ABO, Rh, MNSs and HLA, Electrophoretic variants: G6PD, ESD, PGM, HP and Tf. DNA variants: Thalassaemia mutants, RFLP, VNTR, STR, SNP mitochondrial DNA.
- General theories of population genetics
- Genetic counseling
- Forensic anthropology
- Reproductive systems: Evolution of male and female gonads, Embryological development of gonads, gonadal ducts and external genitalia. Wolffian duct structural organisation and function; Mullerian duct

structural organisation and function. Evolution of Mullerian duct and adaptations for pregnancy. Human reproductive System. Cycles of spermatogenesis and oogenesis. Male and female hormones with special reference to hypothalamus-pituitary system.

#### Practical:

- Craniometry,
- Osteometry,
- Hair studies (Histomorphological & Quantitative),
- Blood group: techniques, titration, Family study.
- Dermatoglyphics: Techniques of taking prints, Study of Fingerprints, palm prints, Main Line formula, Mainline index and Transversality, Family study,
- Cytogenetics (Inactivated X chromosome).
- DNA isolation and amplification of DNA with PCR technique.
- Electrophoresis of Genetic Markers (Hemoglobin, Serum Protein, Molecular Markers)