

Name : Dr. Aparup Das
 Current position : Scientist 'G' and Director, ICMR-National Institute for Research in Tribal Health, Jabalpur, India
 Date of Birth : 10 November 1964
 Area of research interest : Genomic epidemiology of malaria and other Vector Borne Diseases

Details of Education and Training:

<i>Sl. No.</i>	<i>Institution/Place</i>	<i>Degree Awarded</i>	<i>Year</i>	<i>Subject</i>
1.	Department of Zoology, Utkal University/ Bhubaneswar	M. Sc. (Zoology)	1986	Zoology with cytogenetic specialization
2.	Centre of Advanced Study in Zoology, Banaras Hindu University/ Varanasi	Ph. D. (Genetics)	1992	Population and evolutionary genetics
3.	Department of Zoology, Utkal University/ Bhubaneswar	Postdoctoral	1996	Population, ecological and evolutionary genetics
4.	Ludwig Maximilians University/ Munich, Germany	Postdoctoral	2004	Population and Evolutionary Genomics, Bioinformatics

Employment History:

<i>Sl. No.</i>	<i>Institution/Place</i>	<i>Position</i>	<i>From</i>	<i>To</i>
1.	National Institute for Research in Tribal Health, Jabalpur	<i>Scientist 'G' and Director</i>	2017	Till date
2.	Centre for Research in Medical Entomology, Madurai	<i>Scientist 'G' and Director</i>	2016	2017
3.	National Institute of Malaria Research, New Delhi	<i>Scientist F</i>	2015	2016
4.	National Institute of Malaria Research, New Delhi	<i>Scientist E</i>	2010	2015
5.	National Institute of Malaria Research, New Delhi	<i>Scientist D</i>	2005	2010
6.	Poornaprajna Institute of Scientific Research, Bangalore	<i>Faculty Fellow</i>	2004	2005
7.	Ludwig Maximilians University, Munich, Germany	<i>Postdoctoral Scientist</i>	2000	2004
8.	Utkal University, Bhubaneswar	<i>Research Associate and DST Young Scientist</i>	1993	1996

Fellowships (Pre-doctoral)

- Junior Research Fellowship: University Grants Commission (UGC), New Delhi, 1988.
- Senior Research Fellowship: Council of Scientific and Industrial Research (CSIR), New Delhi, 1990.

Fellowships (Post-doctoral)

- Research Associateship: Council of Scientific and Industrial Research (CSIR), New Delhi, 1992.
- Post-doctoral Fellowship: Deutsche Forschungsgemeinschaft (DFG) Germany, 2000.

Academic training imparted:

- Supervised three M. Phil. students in Zoology at Utkal University, Bhubaneswar.
- Established the Evolutionary Genomics and Bioinformatics (EGB) laboratory at NIMR in 2006.
- Trained more than 50 Master's students for dissertation on different aspects of malaria at the EGB lab.
- Nine Ph. D. awarded on malaria parasites, vectors and human host; five students are at present working for Ph. D.
- Examined Ph. D., M. Phil. theses and M. Sc. examinations conducted by various universities; *viz.* Jawaharlal Nehru University, Delhi University, MD University, Rohtak. IIT-Bombay, Jiwaji University, Gwalior *etc.*

Research projects:

- **In *Drosophila* (1992-1996)**

- Joint-Collaborator: Indo-French Centre for Promotion of Advanced Research (IFCPAR) New Delhi, 1993 (on *Drosophila* ecological genetics; French PI: Prof. J. David, CNRS, Paris, France).
- Principal Investigator of the Young Scientist Project: Dept. of Science and Technology (DST), Govt. of India, New Delhi, 1993 (On *Drosophila* population genetics).

- **In malaria and dengue (2005-till date)**

- Co-Principal Investigator: Tropical Disease Research (**World Health Organization**) funded project; 2005 (on *Plasmodium* evolutionary genomics; PI: Dr. Hema Joshi, NIMR).
- Principal Investigator: **Indian Council of Medical Research** funded extramural project; 2007 (On *Anopheles* population genomics).
- Co-Investigator: **Department of Biotechnology** funded project; 2008 (*Plasmodium vivax* population genetics; PI: Dr. Vineeta Singh, NIMR)
- Co-Investigator: **Department of Biotechnology** funded project; 2008 (*Plasmodium* functional genomics; PI: Dr. Arun Sharma, NIMR)
- Research Supervisor/Principal Investigator: **Indian Council of Medical Research** funded JRF-NET project; 2008 (Pharmacogenomic of Indians).
- Research Supervisor/Principal Investigator: **Indian Council of Medical Research** funded SRF project; 2008 (The *Var* gene polymorphism in Indian *Plasmodium falciparum*).
- Research Supervisor/Principal Investigator: **Council of Scientific and Industrial Research** funded project; 2008 (Duffy gene polymorphism in Indian humans).
- Research Supervisor/Principal Investigator: **Indian Council of Medical Research** funded SRF project; 2009 (Genetics of chloroquine resistance in *Plasmodium falciparum*).
- Research Supervisor/Principal Investigator: **Indian Council of Medical Research** funded SRF project; 2009 (Population genetics of erythrocyte binding gene Indian *Plasmodium falciparum*).
- Research Supervisor/Principal Investigator: **Third-World Association of Sciences (TWAS)-DBT** funded JRF project; 2009 (Population genetics of the chloroquine-resistant gene in *Plasmodium falciparum* from Cameroon).
- Research Supervisor/Principal Investigator: **Indian Council of Medical Research** funded project; 2010 (Whole mitochondrial genome sequencing of Indian *Plasmodium falciparum*).
- Coordinator, Core-Leader and co-investigator: **National Institute of Health (USA)** funded project; 2010 (Center of Complex Malaria in India – under the International Centers of Excellence project) left in September 2013.
- Principal Investigator: **Department of Biotechnology** funded project; 2011 (*Plasmodium falciparum* mitochondrial population genomics).
- Co-Investigator: **University of Michigan** funded project on effect of climatic change in malaria transmission (2010-2013); PI: Dr. Mercedes Pascuel, University of Michigan, USA.

- Co-Investigator: **French Government** funded project on Dengue outbreak and human genetic susceptibility (PI: Dr. Richard Paul, Pasture Institute, Paris) 2012-2014.
- Principal Investigator: **ICMR** funded research project on Plasmodium vivax genomics under the Medical Innovation Fund (2016-2019)
- Principal Investigator: **Indo-Canadian (IC-IMPACTS)** funded research project on point-of-care assay for malaria diagnosis and drug-resistance genotyping (Canadian PI: Dr. Stephanie Yanow)
- Co-Investigator: **NIH** funded project on Centre for Study on the Complex malaria in India (CSCMi); US PI: Prof. Jane carlton
- Co-Principal Investigator: **DST** funded research project on *P. falciparum* proteomics (PI: Dr. P. Acharya, AIIMS, New Delhi)

Workshop/Course organized:

- Organized the Global Exchange Lecture Course on "Molecular and Evolutionary Genetics of Malaria" funded by the **European Molecular Biology Organization (EMBO)**, Germany at NIMR from 21 November to 04 December 2010. This course was co-funded by the Indian Council of Medical Research.
- Organized a Laboratory Training Course on "Application of Genomic Technologies in Malaria Research" funded by the **DBT, Govt. of India and ICMR**, at NIMR from 18 November to 01 December 2012.
- Organized the Global Exchange Lecture Course on "Malaria Genomics and Public Health" funded by the **European Molecular Biology Organization (EMBO)**, Germany at ICMR-CRME from 29 January to 11 February 2017. This course was co-funded by the Indian Council of Medical Research, Tata Trust, CSIR, NIH (USA) and Clake Group (USA).

International training obtained (after coming back to India):

- Undergone training for three months at the Ludwig Maximilians University, Munich, Germany on detection of natural selection in genome of Plasmodium falciparum (July – September 2008) under the DBT Overseas Associateship program.

International conference/workshop/meetings attended (last five years):

- **Infectious Disease Genomics and Global Health**
12 –15 September 2010
Wellcome Trust Conference Centre, Wellcome Trust Genome Campus, Hinxton, Cambridge, UK.
Organizer: Wellcome Trust
Role: Discussion Leader and Oral presenter
- Tenth International Conference on **Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases**
3-5 November, 2010
Amsterdam, the Netherlands
Organizer: Elsevier
Role: Co-chair and Oral presenter
- Fifth International Meeting on **Molecular and Population Biology of Mosquitoes and Other Disease Vectors**
24-30 July, 2011
Kolymbari, Crete, Greece
Organizer: Prof. Kitsos Louis, University of Crete, Greece
Role: Oral presenter
- First Annual Meeting and Workshop of the **International Centers of Excellence for Malaria Research**
21-23 September, 2011
Livingstone, Zambia
Organizer: Prof. Peter Agre (Nobel Laureate), Johns Hopkins Bloomberg School of Public Health, USA
Role: Oral presenter

Academic and administrative responsibilities at NIMR:

- Member secretary, publication screening committee (2005-2013)
- Coordinator, student Placement committee (2008-2013)
- Member, library committee (2008-till date)
- Member, staff transfer committee
- Member, NIMR Annual Report committee
- In-charge of the Central Instrumentation Facility (2008-2011)
- Coordinator of the "Parasite Biology" Research Advisory Committee (2006-2013)

Awards:

- Young Scientist Award: By the Department of Science and Technology, Government of India, 1993.
- Overseas Associateship: By the Department of Biotechnology, Government of India, New Delhi, 2007.
- Established Scientist Award: By Scientific Planet, Dehradun, 2013.

Professional activities:

- **Member**: Expert Panel of the World Health Organization project, Grand Challenges in Genomics for Public Health in Developing Countries (Grand Challenges project).
- **Member**: Advisory Committee on Biotechnology of Kumaun University, Nainital
- **Member**: Advisory Committee on Bioinformatics of Maharashi Dayananda University, Rohtak
- **Member of the Editorial Boards:**
 - Biomed Research International (2013-till date)
 - Genetica (2014-till date)
 - Evolutionary Medicine (2012-till date)
 - International Journal of Genetics and Genomics (2012-till date)
 - International Journal of Basic and Applied Medical Sciences (2012-2014)
 - Tropical Medicine and Surgery (2012-2014)
 - Plasmodium-NIMR Newsletter (2006-2012)
 - Journal of Genetics (2009-2011)
 - Journal of Vector Borne Diseases (2006-2013)
- **Reviewer of Grant Proposals:**
 - Deutsches Fortungsgemschaft (German Science Foundation)
 - Medical Research Council (United Kingdom)
 - Department of Biotechnology (India)
 - Department of Science and Technology (India)
 - Indian Council of Medical Research (India)
- **Reviewer of scientific journal:**

- Acta Tropica
- American Journal of Epidemiology
- Annals of Tropical Medicine and Parasitology
- Malaria Report
- Proceedings of the National Academy of Science (India)
- Biological Journal of the Linnaean Society
- BMC Genomics
- Genetics
- Genetics Research
- Genome Data
- Genome Research
- Emerging Infectious Diseases
- Infection Genetics and Evolution
- Insect Science
- Indian Journal of Medical Research
- Journal of Biosciences
- Journal of Computational Biology
- Journal of Genetics
- Journal of Infectious Disease
- Journal of Vector Borne Diseases
- Journal of Tropical Medicine
- Nature Reviews Genetics
- PLoS Neglected Tropical Diseases
- PLoS ONE
- PLoS Genetics
- Tropical Biomedicine
- Tropical Medicine and International Health
- Vector Borne and Zoonotic Diseases
- And many others...

Scientific Publications (Research + review = 88)

- **Notable Publication:**

1. **Das A** (1991) DNA fingerprinting in India. Nature 350: 38.