

Professor (Dr) Sankar Kumar Ghosh, PhD FNASc
 Professor of Biotechnology, Assam University, Silchar
 Former Vice Chancellor, University of Kalyani, Nadia, WB
 Honorary Colonel, NCC, Indian Army, Govt of India
 Fellow of National Academy of Science, India (FNASc)
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General Information

Name (In Capital Letters)	SANKAR KUMAR GHOSH
Date of Birth (Day/Month/Year)	January 17, 1963
Father's Name	Late Gour Chandra Ghosh
Mother's Name	Late Joyabati Ghosh
Correspondence Address	28/2G, NAKULESWAR BHATTACHERJEE LANE PO. KALIGHAT, PS. TALLYGUNGE, PIN. 700026, WEST BENGAL
Permanent address	Same as above
Place of Birth	Ranaghat, Nadia, West Bengal (Citizen of Indian by birth)
Category (SC/ST/OBC/PWD)	General
Marital Status	MALE (having two children)
Phone No.	Mobile No. : 9435372338 / 6291622338
Email	drsankarghosh@gmail.com
Field of specialisation	Genetics & Genomics, Molecular Biology, Cell Biology, Biodiversity DNA barcoding & Molecular Taxonomy, Cancer and Healthcare Genomics, Amino acid and Medical Biotechnology, Veterinary and Laboratory Animals, Entrepreneurship

Present Position

a. Designation	Professor, Dept of Biotechnology, Assam University, Silchar (Central University)
b. Organization	ASSAM UNIVERSITY, (A CENTRAL UNIVERSITY), SILCHAR
c. Pay Scale	Rs.37400-67000 with AGP Rs.10000/-
d. Date of appointment to the present post	6 th January, 2009 as Professor, Dept. of Biotechnology, Assam University 21 st Dec., 2016 to 20 th December 2020 assigned as Vice Chancellor, University of Kalyani, Nadia, West Bengal [on lien]
e. Total Experience (In Years and Months)	More than 12 years (including 4 years of Vice Chancellor, University of Kalyani).

Educational Qualification (In chronological order from latest to Graduation level)

#.	Qualification	University	Year	Subject(s)/Topic(s)	% Achieved	Distinctions etc.
1	Post Doctoral Fellow, US	Cleveland Clinic	2005-07	Cancer Biology	Publications	by Fellowship
2	PhD	Bose Institute	1990-95	Biotechnology	By thesis	CSIR Fellow
3	Pre-PhD Course	Bose Institute	1991-92	New Biology	Excellent	Qualified
4	National Eligibility Test	CSIR-UGC	1989	Life Sciences	Life Science	Qualified
5	Masters Degree (MVSc)	BCKV	1987-90	Genetics	3.87/4	1 st Class first
6	BVSc & AH (5 Years)	BCKV	1982-87	ICAR	66%	1 st Div
7	Higher Secondary (Sc)	WBCH Edu	1982	Science	66.1	1 st Div

Administrative Experience/Post(s) & responsibilities held

S. No.	Post	Organization/University	Duration		Experience (In Years and Months)
			From (Date)	To (Date)	
1.	Head of the Department	Assam University, Silchar (AUS)	Jan 2009	July, 2012	5 years & 6 months
		Assam University, Silchar	July 2014	Dec 2014	
		WBUAFSc, Kolkata, WB	Feb 2004	July 2005	
2.	Chairman, Board of Studies	School of Life Science, AUS	July 2016	Dec 2016	2 years
		School of Med. & Paramed. AUS	July, 2013	Nov 2014	
3.	Member, BOS	3 Departments, Assam University	Jan 2009	Dec 2016	About 8 years
		NFHI/Mizoram University	2013	2016	More than 3 years

		School of Med.c& Paramed. Sci. AUS	July, 2013	Nov 2014	
5.	Member, Aca. Council	Assam University, Silchar	Jan 2009	Dec 2016	About 8 years
6.	Chairman, EC	University of Kalyani	21 st Dec, 16	to Continue	4 years

Membership in remarkable academic/administrative/professional organizations:

- Chairman, Governing Body, Kalyani Govt. Engineering College, Govt of West Bengal [2016-2020]
- Member, West Bengal Council of Higher Education, Govt. of West Bengal [2016-2020]
- Expert Member, NAAC visit/accreditation committee. [2016-]
- National Member, Cataloguing of Ornamental Fishes, NFDB, Govt. of India [2014-]
- Member, Governing Body, IIIT-Kalyani [2016-2020]
- Expert Member, Ministry of Science & Technology, Govt of West Bengal [2018-]
- Task Force Expert, DST, GoWB to monitoring funded project/Biotech park, etc. [2018-]
- Expert in UGC_CARE programme, Tezpur University, UGC [2018-]
- Expert member in UGC Major Research Project Review Committee [2013-2016]
- Task Force member, Indian Council of Medical Research (ICMR), New Delhi [2013-2016]
- Task Force member, Ministry of Science and Technology, Govt. of Assam [2013-2016]
- Expert member of Department of Biotechnology, Govt of India for NER development. [2010-2016]
- Member of Selection bodies in Faculty members [Professor/Associate/Assistant Professor] post [2009-]
- Expert member for the selection of Principal in the different colleges [2016-2020]
- DBT external member, Biotechnology and Molecular Biology in Tezpur University [2012-2015]
- Coordinator, University Grant Commission SAP at the Department of Biotechnology [9012-9016]
- Member, Question setter in different competitive Exam SLET/NET and PG/PhD University levels [2010-]
- Consultant Veterinarian at Bose Institute, Kolkata being a member of Animal Ethics committee.
- Chairman Expert /member in different selection of Non-teaching staff
- Chairman, Animal Ethics Committee, Silchar Medical College and Hospital
- Chairman, Institutional Human Ethics Committee, Assam University, Silchar
- Institutional Review Board (IRB) and Scientific Advisor, Cachar Cancer Hospital and Research Centre,
- Life Member, Indian Immunological Society
- Life Member, Veterinary Council of India (VCI)
- Life member US-Climate Change Association, USA
- Life member of Indian Science Congress, Kolkata
- Life Member, DNA Society of India, Kolkata
- Life members of Morris Foundation-US, USA
- Life Member, ADNAT (CCMB) [L-208]
- Life Member, Indian Animal & Genetic Society

Details of employment (Academic/Teaching Experience & responsibilities (In chronological order from latest to oldest))

S. No.	Post	Organization/ University	Duration: Experience (In Years and Months)		Responsibilities
			From (Date)	To (Date)	
1	Professor	Dept of Biotechnology Assam University, Silchar	06.01.2009- Continue		PG Teaching, Research & Extension, administration
2	Vice Chancellor	University of Kalyani, Nadia, West Bengal	4 years (21 st Dec, 2016 up to 20 th Dec, 2020)		Overall Academic and administrative activities
3	Reader then Associate Professor	West Bengal University of Animal & Fishery Sc	3 years (06.01.2006-05.01.2009)		UG/ PG Teaching, Research /administration
4	Postdoctoral Fellow	Cleveland Clinic, USA	(29.07.2005-09.07.2007)		Cancer Biology
5	Senior Lecturer	West Bengal University of Animal & Fishery Sc	4 Years (06.01.2002-06.01.2006)		UG and PG Teaching, Research & Extension
6	Lecturer	West Bengal University of Animal & Fishery Sc	About 2 years 11 Months (17.11.1999-05.01.2002)		UG and PG Teaching, Research & Extension
7	Lecturer	Bidhan Chandra Krishi Viswavidyalaya (BCKV)	2 Years 10 months (06.01.1997-16.11.1999)		UG and PG Teaching, Research & Extension
8	Research Associate	Indian Institute of	Approx 9 months		Research on Molecular

	(DBT)	Chemical Biology	April, 1996-Jan., 1997	Biology
9	Research Fellow (CSIR)	Dept. of Biochemistry, Bose Institute	5 years 3 months Jan 1990 –March, 1995	For PhD research work on Biotechnology
10	Veterinary Surgeon	Govt of West Bengal	6 months July 1989-December 1989	Govt WB Veterinary Service

Few Achievements as Vice Chancellor (University of Kalyani) : The University NIRF ranked within top 100 successive three years, viz. 86 (2018), 91 (2019) and **89 (2020) and NAAC-A (3.12)**, has a total of about 36 PG departments and 54 affiliated colleges/Institutions.

Infrastructure:

***Establishment of notable Infrastructure of eight buildings/extension including swimming pool, gymnasium, along with 38,000 sq.ft Research and Innovation Complex foundation stone**, which was laid by Shri Pranab Mukherjee under 30 crores RUSA grant.

Research and Innovation:

Creation of three major areas of Research and Innovation, like Translation, Environmental and Genomics Research with State-of-Facilities in collaboration with national and International collaboration.

New Academic Programme:

***Implementation of new Five Job Oriented Courses (2019)**, like MSc Data Sc (1st time in India), Genome Sc (2nd time), Nano Sc & Nano Tech, Food and Nutrition, Computer Sc and Interdisciplinary centralised Pre-PhD courses (2019) with biometric attendance.

Establishment of Entrepreneurship and Career HUB:

***An extraordinary hub on Entrepreneurship and Career** with school dropouts, women and high skilled researchers with 15 crores from RUSA grant and formulation of Frontier, highlighting **10 different Centres**, like Data Sc VS Social Science, Third Age (A3), Human values & positive thinking, Medical/Biodiversity Tourism, etc.

State-of-Art Instrument facilities:

*All the **state-of art instruments** are being used in a single umbrella with highly skilled manpower along with **DST-Purse II fund** (9 crores) at SN Bose Innovation Centre to give service to the Institutions.

Strengthens of Distance Education:

*Constitution of State-of-Art facilities in the **Distance Education** (UGC-BED) with opening of new 4 MSc Science courses (Botany, Zoology, Mathematics and Geography), not any different from regular mode.

Opening of Online Degree courses (appied): Master degree in Bengali (1st time in world) in the eve of Golden jubilee of Bengali department and Bachelors in Computer Science

Promotions of no-teaching and teaching staff:

*All **promotions of no-teaching and teaching staff** are completed or almost completed. All students' activities from admission to payment are **digital mode**. The students and researchers, happy with their academics, strive to pursue their degrees.

Inter Disciplinary Academic festival: *An **Inter Disciplinary Academic festival** was conducted, where eminent figures in academics and institute locals had partaken. Not only was it the first time such an event was organised, it also turned out to be a huge success. ***Lastly, no remarkable agitation was shown during my presence at Kalyani University.**

Participation and contribution in relevant areas in higher education

	Organization	Area of Specialisation
Visiting Professor	Cleveland Clinic Foundation, USA	Cancer Immunology
Resource Person	More than 100 invite talk in academics	See below

Contribution in relevant areas in higher education as Resource Person

- Keynote address on *Challenges in Higher Quality Education (in the light of NEP 2020)* at Amity University and other academic institutions along with affiliated colleges.
- Keynote address at NSS/National/International virtual on **COVID-19 and SOCIAL VACCINE**
- Keynote address at 3 days Workshop on “Application of PCR Technology” 5th –7th, March 2020
- *Motivated Lecture, International India Science Festival (IIFS)*, Kolkata 1st November, 2019
- Keynote address: 15-Days Workshop on “DNA Barcoding and Genetic diversity” Sept. 17th-Oct 1st 2019
- *Special Lecture* on “**Obstacles in publishing-maintaining research integrity in a digitally connected world**” – on UGC-CARE “Research Integrity Awareness Workshop” sponsored by UGC (MHRD) on 26th August, 2019 at Tezpur University, Assam

- Keynote address at 4 days Workshop on “Basics of Confocal Microscopy” Aug 28-31st, 2019
- Keynote address at 21-Days Summer Training on DNA Barcoding July 2-22, 2019.
- *Keynote address* on **Circulating (cell-free) nucleic acids: minimally- invasive, rapid and sensitive tool for molecular diagnosis and monitoring and therapy** at National symposium “Molecular Diagnostics & Therapeutics” JNM Hospital, WBUHS on June 21-22, 2019
- Keynote address at 3 days Workshop on “Basics of DNA Sequencing” 10–14 April, 2019
- *Welcome address* and **Curtain Raiser Lecture** on DNA Barcoding at 44th Annual Conference of the Indian Society of Human Genetics ISHG-2019: Genomics for Health and Precision Medicine, organised by NIBMG and Kalyani University from 30th Jan to 1st Feb 2019
- *Keynote address* on **DNA Barcoding: 5th International Conference** entitled "India Biodiversity Meet-2018 during 15-17 March, 2018 at ISI, Kolkata
- *Motivational Lectures* on **Transforming the New Educational ideas in India**, at RKM Vivekananda Centenary College Rahara, West Bengal on 03th March 2018.
- *Keynote Lecture* on "**DNA Fingerprinting and Cataloguing of the Bio-resource of the North-East India** on 7th Symposium of the DNA Society of India on 17th November, 2017 at IAAST, Guwahati Attended and Delivered of different programme from MHRD/UGC/Universities/ Higher Education, State Govt. etc Higher education /Course curriculum development/ Clustering of Colleges/Use of Virtual Classes, Research & Innovation, Entrepreneurship Career hub, etc
- PhD scholar Raima Das, **attended 11th HOPE Meeting conducted by JSPS (Japan Society for the Promotion of Science) between 04th to 8th March 2019 at Okinawa, Japan.**

Professional training as Resource person/Course Director

- 1) **Four days Hands on workshop on *Advances in Genomics: Gene expression, epigenetics and miRNA* at DBT-Molecular Medicine Lab. 28 Sept-01 Oct, 2016 [Course Director]**
- 2) **Six days Hands on Training on Medical Biotechnology ‘*Understanding Human Disease and Improving Human Health Using Genomics-Driven Approaches*: April 6-11, 2015 in collaboration with National Institute of Biomedical Genomics (DBT), Kalyani. [Local Course Director]**
- 3) **Five days Hands on training on *Human genetics: Techniques & Statistical Analysis* in collaboration with Indian Statistical Institute, Kolkata during 10-14 November, 2014 [Local Course Director]**
- 4) **Four days INSA-AUS lecture (8-11th Dec, 2012) series organizing at Barak valley for promotion of young School students/collage teachers with INSA fellows in collaboration with INSA Kolkata chapter. [Organizer]**
- 5) **Five days International hands on workshop at Bangladesh on “*Advanced tools in Molecular Biology and Bioinformatics for DNA barcoding of Bio-resources*” at Chittagong University & CVASU, BANGLADESH with USDA, USA from 12th -16th Feb., 2012 Supported Assam University, Chittagong Veterinary and Animal Sciences University and USDA, USA [Course designer and Key person-SOLO]**
- 6) **Five days National Workshop on “*DNA barcoding and Genomic Diversity of Bio-resources*” at Assam University from 27th -31st January, 2012 for Teachers/Scientists (for 35 participants from 16 states of India) [Course Director].**
- 7) **Two days National workshop (Hands on) on “*PCR techniques for Healthcare*” for the clinicians/pathologist at DBT healthcare Centre, Silchar Medical College & Hospital, Silchar [Key Resource person] from 23rd – 24th Dec., 2011**
- 8) **Three days hands on National workshop on “*TB Genomics, Drug Development and Recent Molecular Diagnosis*” on World TB day at Silchar Medical College and Hospital and Assam University, from March 24-26, 2011 for Medical Scientists and University teachers. (20 participants) [Course Director].**
- 9) **10 days Hands-on training on *Basic tools in Molecular Biology and Genomics* from 7th Dec-16th Dec.2010 for PhD students and faculty members (40 participants from Students front of Northeast India) [Course Director].**
- 10) **15 days Hands-on training on *PCR BASED ADVANCED DNA FINGERPRINTING* from 21st April – May 5th, 2010 at Assam University, Silchar, for Teachers/Scientists (24 participants from different states of India). [Course Director].**

- 11) **One week Hands-on workshop** for PG students on “**BASIC TOOLS OF MOLECULAR BIOLOGY**” **October, 2009**, at Assam University. (25 participants) [**Course Director**].
- 12) One day Workshop on “**DNA BARCODE OF LIFE**” for Researcher/ PG students/scholars/faculty members at Assam University, 7th April, 2009, [**Course Director**].
- 13) Participated 7 days workshop on “**Advanced mode of DNA barcode**” November, 2009 at **Mexico City, Mexico** (with Travel grant) as Resource Person.
- 14) Participated 3rd International conference of **DNA barcode of Life** at **Mexico City**, 8-11 November, 2009.
- 15) Attended **DNA BARCODE OF LIFE** programme at **UNIVERSITY OF GUELPH, CANADA** under Pual Hebert (founder of DNA barcode) in April-May, 2008 (with Travel grant) as Resource Person.
- 16) Post doctoral Fellow (NIH, USA) at **CLEVELAND CLINIC FOUNDATION**, OH, USA on Advanced Genes and Genomics, siRNA technology, Micro-array, expression of genes, etc. during July 29, 2005- July 8, 2007
- 17) Participated “Symposium on **BIOINFORMATICS FOR GENOME ANALYSIS**” at Bose Institute, Kolkata, 29-30th Jan. 2004.
- 18) Advance training on ‘**PCR AND RELATED TECHNIQUES FOR DISEASES DIAGNOSIS**’ at Department of Animal Biotechnology, Madras Veterinary College, (ICAR sponsored), July-Aug, 2000. (3 weeks)
- 19) Participated as Trainer in **POLYMERASE CHAIN REACTION (PCR) IN BIOLOGICAL ANALYSIS** workshop at Department of Biochemistry, Bose Institute, Kolkata, Sept. 1995. (3 weeks)
- 20) Participated as Trainer in **PRODUCTION OF TRANSGENIC ANIMALS** with Dr. J. S. Khillan (Director, Transgenic facility, **Thomas Jefferson University, Philadelphia, USA**) at Bose Institute, Calcutta, Aug-Sept. 1994. (3 weeks)
- 21) Attended “**Molecular Approaches to Predetermination of Sex in Farm and Experimental Animal**” workshop with Prof. J R Miller (Inst. of Molecular Physiology and Genetic Research, **Cambridge University**) at **National Institute of Immunology (NII)**, Dec.1991. from Bose Institute (3 weeks).

Involvement with formulation of academic programmes: (last 4 years)

S. No.	Nomenclature of Innovative Academic Programmes formulated	Date of approval by Academic Council	Year of Introduction
1	Job oriented Innovative Academic Programmes MSc Data Science (1 st time in India) Genome Science (2 nd), and Nano Science & Nanotechnology	Approved by EC and Court, KU	2019
2	Creation of 15 different kinds of Job oriented academic programmes diploma/ certificate courses (15 cores RUSA grant) with Industrial /academic collaboration, subsequently create the Innovative Centres	Approved by EC KU, Govt of WB and MHRD, GoI	2019
3	Development of Research and Innovation Centre to interdisciplinary Innovative Academic research Programmes in three major frontier areas using 35 cores from RUSA grant with 38,000 sq.ft. building (under)	RUSA grant, Govt of WB and MHRD, GoI	2019
4	1 st Kind of 1st ACADEMIC FESTIVAL just after Saraswati Puja (7-9 Feb) covering Best Academic Institutes nearby with motivational talk, cultural programme, students-academics interdisciplinary: Innovative Academic Programme	University of Kalyani and other collaborative institutes/colleges/schools	2019
5	Integrated Interdisciplinary Pre-PhD/MPhil course curriculum development	Approved by EC and AC, Kalyani Univ.	2017
6	Formulated different Non-credit courses at PG level, like Human values and Positive thinking, Research and Innovation, 3rd Age, etc	Approved by EC and AC, Kalyani Univ.	2017
7	Introduction of CBCS course in Master’s degree and Graduates including all affiliated colleges	Approved by EC and AC, Kalyani Univ.	2017

Important MoUs formulated for academic collaborations:

S. No.	MoUs formulated	Name of Agencies/Departments	Year of MoU
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1	Research on medical science and exchange programme	Centre of Biomedical Research, Lucknow, Uttar Pradesh.	2017
2	Research and Innovation	Bose Institute, Kolkata	2017
3	Exchanges of faculties/students and facilities	Indian Institute of Science Education and Research (IISER) Kolkata	2017
4	Exchanges of faculties/students	Calcutta School Of Tropical Medicine, West Bengal	2018
5	Research collaboration	CSIR- Indian Institute of Petroleum,	2018
6	International collaboration. Mobility of faculty/students/staff	ERUSMUS PLUS credit Mobility Program with University of Lodz, Poland.	2020

Position of Chairs:

S. No	Name of Chair	Name of Agencies/Departments involved	Period of holding the Chair
1	Chairman, EC, KU	University of Kalyani	21.12.2016-20-12-2020
2	Chairman, Governing body	Govt. Engg. College, Kalyani, WB	21.12.2016-20-12-2020

International academic Exposure, if any

S. No.	Post/ Assignment	Organization/ University	Area of Assignment	Duration		
				From	To	In Years & Months
1	Post Doc Fellow	CCF, USA	Cancer Biology	Aug. 2005	Aug. 2007	2 years
2	International Experts	University of Guelph	DNA barcode of life	27 Apr-2008	5 th May 08	9 days
3	Visiting Fellow	UNAM, Mexico	Biodiversity	7 Nov. 2009	13 Nov. 09	7 days

Visited more than 20 countries in different academic activities

Scholarly achievements:

A. Contribution to Journals and Books:

Journals and Books, DNA Sequences	Details
Books authored	12 (9 International, 3 National)*
Editor in Chief	4 as Text book (2 National and 2 International)** Barcode of Life (184 pages)-1 st kind of book in the World
Editorships	4
Peer reviewer for	Many journals and magazine [>30]
Member of the International Advisory Board	2

Others (Specify)

- **DNA Sequences:** More than 8000 gene sequences submitted in BOLD/NCBI of **Ethnic people**, Cancer genes and Genomics (NGS) of Northeast India, and Biodiversity practically from Northeast India and Sunderbans.
- **Videos:** i) **Science of Cat** (2009) at **National Geography Channel**, Edited by Leslie Lyon, UCLA, US), ii) **Life from Dead** [Embryo Transfer from slaughter cows] (1995) at DD, Kolkata
- **Manual:** More than TEN manuals are authored and edited in areas the basic and advanced of Biotechnology/PCR based diagnosis/DNA Barcoding/Genetics/, etc

*Book Chapter:

1. (2015): *DNA barcoding as a molecular tool for the assessment of plant biodiversity*. In: Plant Biodiversity: Monitoring, Assessment and Conservation Volume-1, CABI Publications, UK.
2. (2015) "*Targeting Metabolic Pathways for Disease Therapy*" on frontier areas in biological research edited by Dr Lakhan Kma, NEHU, Shillong.
3. (2016): *DNA Barcoding of Primitive Species-Nemertine from Sundarbans Marine Bio-resource*. DNA Barcoding in Marine Perspectives, 157-168 [Springer]
4. (2016): *DNA Barcoding: Molecular Positioning of Living Fossils (Horseshoe Crab)*, DNA Barcoding in Marine Perspectives, 181-199 [Springer]
5. (2016): *DNA Barcoding in the Marine Habitat: An Overview*. DNA Barcoding in Marine Perspectives, 3-28
6. (2018), Detection of p16 Promoter Hypermethylation by Methylation-Specific PCR. The Retinoblastoma Protein, *Methods in Molecular Biology*: Volume 1726 (The Retinoblastoma Protein): 02/2018: pages 111-122; (Chapter-11) Humana Press, New York
7. (2018): Molecular Identification of Reptiles from Tabuk Region of Saudi Arabia Through DNA Barcoding: A Case Study. DNA Barcoding and Molecular Phylogeny, 397-411 Springer, Cham
8. (2018): Identification and Conservation of Reptiles through DNA Barcoding.p-293-303; DNA Barcoding and

Molecular Phylogeny. Springer

9. (2019): Epigenetic Profiling in Head and Neck Cancer page: 201-217, Computational Epigenetics and Diseases, Academic press, USA
10. (2019): Principles of Bisulfite Conversion of DNA and Methylation-Specific PCR (MSP) in Biological Research. Chapter 2; Epigenetics Methods, Elsevier

**** TEXT BOOK:**

1. (2012): Text book on “*DNA barcoding*” Books space, College Street, Kolkata (196 pages) **1st kind of book on DNA BARCODE in the world** [ISBN 978-81-922989-4-8]
2. (2014):Text book on “*Principles and Methods of Molecular Biology*” (2014), **Panima Publishing Corporation, New Delhi.** 140 pages [ISBN 81-86535-71-3]
3. (2016): **DNA barcoding and Genetic diversity of Marine Bio-resource (ISBN 978-3-319-41838-4; Springer, New York, USA)**
4. (2017): **Testudines of the Northeast India: Classical and Molecular taxonomy. LAP LAMBERT Academic Publishing (ISBN-10 : 6202066180; 148 pages)**
5. (2018): **DNA Barcoding and Molecular Phylogeny.** 442 pages (ISBN-10 : 3319906798, Springer 1st Edition)
6. (2020): **DNA Barcoding and Molecular Phylogeny.** ISBN-10 : 3030500748 Pages-267) (2nd Edition Springer, New York, USA)

B. Publication:

B.I Kindly provide list of scholarly publications in recognised professional and/or academic journals:

Total Publications: 258 H-Index: 22; Total cumulative Impact Factor: more than 400 (approx)

Referred Journals: 160 i-10 index: 50 ResearchGate index: 36.29

Abstract/Full Papers in Seminar/Conferences/Invited Lectures : more than 100

Few Publications (recent) with Year, Title, Name of the Referred Journal and Citation as follows:

S. No.	Date (year)	Title	Name of journal	REREERED only	Number of Citations
1	2020	Drug repurposing and relabeling for cancer therapy: Emerging ... with potent anticancer effects	<i>Life Sci.</i> 258, 118189	ISSN: 0024-3205	IF- 3.647, H-Index: 156
2	2020	Genome-wide analysis of mammary gland shows modulation of transcriptome...aureus mastitis in mice	<i>GENE</i> 735:144278.	ISSN: 0378-1119	IF 2.32. H-Index 164
3	2020	Clinically significant variants associated with nasopharyngeal carcinoma: Findings of a meta-analysis study	<i>Meta Gene</i> 24:100688	ISSN: 2214-5400	IF- 0.88 H-Index 17
4	2019	Genetic status of indigenous poultry (red jungle fowl) from India	<i>GENE</i> 705:77-81	ISSN: 0378-1119	IF 2.32. H-Index 164
5	2019	The GSTM1 and GSTT1 Null Genotypes Increase the Risk for Type 2 Diabetes: A Meta-analysis	<i>Curr.Diab.Rev</i> 15:31-43	ISSN: 1875-6417	IF- 3.568, H-I 50 Citation-7
6	2019	Metabolic phase I (CYPs) and phase II (GSTs) gene polymorphisms...ethnic population of Northeast India	<i>Path. Onco. Res.</i> 25:33-44	ISSN: 1219-4956	IF 2.433;H-I 44 Citation-2
7	2019	Induction of Apoptosis by pierisin-6 in HPV positive HeLa HepG2 Cancer Cells...mitochondrial pathway.	<i>Anticancer Ag. Med Chem</i>	ISSN, 18715206,	IF 2.556,H-I 90 Citation: 3
8	2018	Association of DFNA5, SYK, and NELL1 variants along with HPV... the prolonged tobacco-chewers	<i>Tumor Biol.</i> 40(8):	ISSN: 1010-4283	IF 3.65, H-I 70 Citation-5
9	2018	Diagnosis and epidemiology of amoebiasis in India	<i>CURRENT SCIENCE</i> 114: 2045	ISSN: 0011-3891	IF- 0.85, H-Index: 104
10	2018	Assessment of DNA repair susceptibility genes identified by whole exome neck cancer	<i>DNA repair</i> 66: 50-63	ISSN: 1568-7864	IF 4.61,H-I 104 Citation-5
11	2018	Application and optimization of minimally invasive cell-free DNA techniques in oncogenomics	<i>Tumor Biol</i> 40(2):	ISSN: 1010-4283	IF 3.650, H-I 77 Citation-18
12	2018	Genetic assessment of leech species from yak (<i>Bos grunniens</i>) in the tract of Northeast India	<i>Mito. DNA Part A</i> , 9:73-81	ISSN, 24701394,	IF 1.7,H-I-26 Citation-2
13	2017	Genetic variants of the DNA repair genes from Exome ... (EXAC) database: significance in cancer.	<i>DNA repair</i> 52: 92-107	ISSN: 1568-7864	IF 4.61, H-I 104 Citation-7
14	2017	Design of character-based DNA barcode motif for species identification:its validation in fishes.	<i>Mol Eco Res</i> 17:1359-70.	ISSN:1755 -0998	IF 7.33, H-I-100 Citation-3

15	2017	Mini-DNA barcode in identification of the ornamental fish: A case study from Northeast India	<i>GENE</i> (17)30492-4.	ISSN: 0378-1119	IF 2.32,H-I 164 Citation-3
16	2017	Cell-free mitochondrial DNA copy number variation biomarker from Northeast India	<i>Tumor Biol</i> 39(10):	ISSN: 1010-4283	IF 3.650, H-I 70 Citation-14
17	2017	ATM rs189037 (G> A) polymorphism and risk of lung cancer and head and neckanalysis	<i>Meta gene</i> 6, 42-48	ISSN: 2214-5400	IF-0.88, H-I: 14 Citation-17
18	2017	A murine model of type 2 diabetes mellitus developed using diabetes mellitus in humans.	<i>J Phar. Tox. Met.</i> 84:20-30	ISSN, 1056-8719.	IF 2.679,H-I 60 Citation-32
19	2016	Streptococcus uberis ST439 and ST475 induce differential ... intramammary infection model	<i>Gene</i> 585 247-255	ISSN: 0378-1119	IF 2.32,H-I 164 Citation-2
20	2016	Association between OGG1 Ser326Cys polymorphism cancers: a meta-analysis	<i>Springerplus</i> 5 : 227	ISSN, 2193-1801	IF-1.47, H-I-33 Citation-11
21	2016	Association of p53 codon72 Arg> Pro polymorphism.... case-control study and analysis	<i>Oncogenesis</i> 5 : e225	ISSN · 2157-9024	IF 4.722,H-I 31 Citation-7
22	2016	Role of DNA Barcoding in marine biodiversity assessment and conservation: an update	<i>Saudi J Biol. Sci.</i> 23 161-71	ISSN, 1319562X	IF 2.820,H-I 33 Citation-56
23	2016	DNA Barcoding: tool for assessing species identification in Reptilia	<i>J Ent Zool Stud</i> 4 332-7	ISSN: 2349-6800	IF-0.88, HI-14 Citation-12
24	2016	Polymorphisms of XRCC1 and XRCC2 DNA repair genes and interaction with environmental factors influence the risk of nasopharyngeal carcinoma in Northeast India	<i>Asian Pacific J. Cancer Prev.</i> 17: 2811-2819	ISSN: 1513-7368	IF-2.52 H-Index-70 Citation-6
25	2015	Rectal cancer profiling identifies distinct subtypes in ... clinicopathological characteristics	<i>Mol. Carci.</i> 54 1786-95	ISSN:1098 -2744	IF 4.722,H-I 88 Citation-15
26	2015	Gene-environment interaction and susceptibility in head...a study of N ortheast I ndian population	<i>J Oral Pathaol Med</i> 44 495-501	ISSN 0904-2512	IF 2.14,H-I 74 Citation-21
27	2015	Molecular epidemiology of amoebiasis: a cross-sectional North East Indian population	<i>PLoS neg. trop. Dis.</i> 9 (12),	ISSN 1935-2727.	IF 4.487,H-I 110 Citation-50
28	2015	Tobacco carcinogen- metabolizing genes CYP1A1, . cancer in Northeast Indian population	<i>Tumor Biol</i> 36, 5773-83	ISSN: 1010-4283	IF-3.65, H-I 77 Citation-15
29	2015	Promoter hypermethylation profiling identifies subtypes genetic and survival characteristics	<i>Plosone</i> 22;10(6):	ISSN: 1932-6203	IF 3.360,H-I 268 Citation-37
30	2015	Genetic assessment of ornamental fish species from North East India	<i>Gene</i> 555 382-392	ISSN: 0378-1119	IF 2.32,H-I 164 Citation-16
31	2015	Epigenetic pathogenesis papillomavirus in upper aerodigestive tract cancers	<i>Mol carcino.</i> 54 1387-1396	ISSN 10982744	IF- 5.16 H-I 94 Citation-5
32	2015	XPD, APE1, and MUTYH polymorphisms increase gene-environment interactions	<i>Tumor Biol</i> 36 7569-79	ISSN: 1010-4283	IF 3.650, H-I 70 Citation-13
33	2015	Burden of major diarrheagenic protozoan parasitic ... North East India: a case report	<i>Parasitology</i> 142 1318-25	ISSN: 0031-1820	IF-2.783, H-I 55 Citation-13
34	2015	p16 expression as a surrogate marker for HPV infection.... to neo-adjuvant chemotherapy	<i>Asian Pac Can Prev</i> 16 7161-65	ISSN 1513-7368	IF-3.83, H-I 70 Citation-13
35	2015	Trend of different molecular markers in the last decades for studying human migrations	<i>Gene</i> 556, 81-90	ISSN: 0378-1119	IF 2.32,H-I 164 Citation-20
36	2014	Combined effect of tobacco and DNA repair genes .. carcinoma in northeast Indian population	<i>Med. Oncol</i> 31 (8), 67	ISSN 13570560	IF 2.43 ,H-I 77 Citation-27
37	2014	An assessment of the DNA barcodes of Indian freshwater fishes	<i>Gene</i> 537:20-28	ISSN: 0378-1119	IF 2.32, H-I 164 Citation-38
38	2014	Cell-free mitochondrial DNA copy number variation....biomarker from Northeast India	<i>Tumor Biol.</i> 39 (10),	ISSN: 1010-4283	IF-3.65, H-I 77 Citation-14
39	2014	Epigenetic response in mice mastitis: role of histone H3Staphylococcus aureus infection	<i>Clin. epig</i> (1), 12	ISSN: 1868-7083	IF-5.430, H-I 45 Citation-20
40	2014	Utility of indels for species-level identification: a study with intergenic spacer in Citrus	<i>Mol. Boil.rep.</i> 41 :7217-22	ISSN, 03014851	IF- 2.107, H-I 66 Citation-13
41	2014	Dysfunction of mitochondria duein the ethnic group of Northeast Indian population	<i>Tumor Biol.</i> 35 6715-24	ISSN: 1010-4283	IF-3.65, H-I 77 Citation-15
42	2014	Design of Mini-barcode for Catfishes for assessment of archival biodiversity	<i>Mol. eco res</i> 14 : 469-477	ISSN: 1755-098X	IF- 7.059, H-I 115 Citation-15
43	2014	DNA barcoding of Red Sea fishes from Saudi Arabia-the first approach	<i>DNA Barcodes</i> 2 (1)	ISSN 1545-7885	IF- 1.58, H-I 115 Citation-15
44	2013	The species dilemma of northeast Indian	<i>PloS one</i> 8	ISSN	IF-3.360, H-I:

		mahseer: DNA barcoding in clarifying the riddle	(1), e53704	1932-6203	268 Citation-51
45	2013	Mitochondrial DNA copy number and risk of oral cancer: a report from Northeast India	<i>PloS one</i> 8 (3), e57771	ISSN 1932-6203	IF-3.360, H-I: 268 Citation-59
46	2013	Association of mitochondrial D-loop mutations carcinoma: A case control study from NER India	<i>Oral onco.</i> 49: 345-353	ISSN 18790593	IF- 3.979 H-I: 108 Citation-24
47	2013	DNA Barcoding: A tool for species identification from herbal juices	<i>DNA Barcodes</i> 1, 35-38	ISSN 1545-7885	IF- 1.58, H-I 115 Citation-28
48	2013	Epigenetic, genetic and environmental interactions.. cell carcinoma from northeast India	<i>PloS one</i> 8 (4), e60996	ISSN 1932-6203	IF-3.360, H-I: 268 Citation-65
49	2013	Staphylococcus aureus spa type t267, clonal ancestor of bovine subclinical mastitis in India	<i>J. Appl. Micro.</i> 114 1604-15	ISSN 1365-2672	IF-3.066, H-I:149 Citation-34
50	2012	Identification and re-evaluation of freshwater catfishes through DNA Barcoding	<i>PloS one</i> 7 (11), e49950	ISSN 1932-6203	IF-3.360,H-I: 268 Citation-70

Participation and scholarly presentations in conferences:

A. National

S. No	Date	Title of the Conference or Institution	Title/Subject of presentation (if made)
1	1 st Nov.2019	International India Science Festival (IIFS) at NICED Kolkata	<i>Motivated Lecture on DNA barcoding and Health Genomics</i>
2	30 th Jan to 1 st Feb 2019	44 th Annual Conference of the Indian Society of Human Genetics ISHG-2019: Genomics for Health and Precision Medicine by NIBMG	<i>Welcome address and Curtain Raiser Lecture on DNA Barcoding</i>
3	26 th Aug. 2019	UGC-CARE “Research Integrity Awareness Workshop” sponsored by UGC (MHRD) at Tezpur University, Assam	<i>Special Lecture on “Obstacles in publishing- maintaining research integrity in a digitally connected world”</i>
4	15-17 Mar.2018	5 th International Conference entitled "India Biodiversity Meet-2018 during at ISI, Kolkata	<i>Keynote address on DNA Barcoding</i>
5	17 th Nov. 2017	7 th Symposium of the DNA Society of India on at IAAST, Guwahati, Assam	"DNA Fingerprinting and Cataloguing of the Bio-resource of the North-East India
6	Feb. 17-19, 2012	12 th International Congress of Ethnopharmacology at Jadavpur University,	Implication of Plant DNA Barcode In Ethnobotany from North East India”
7	12-16 Dec., 2011	International Conference on Cancer organized by American Association of Cancer Research (AACR) New Delhi	Mitochondrial DNA Genome as Biomarker in Oral Squamous ... Northeast India. Poster
8	4 th Jan., 2011	98 th INDIAN SCIENCE CONGRESS (ISCA), Chennai	Development of Individual...mitochondrial D-Loop hyperactive regions

B. International

S. No.	Date	Title of Conference or Institution	Title/Subject of presentation (if made)
1	15-18/06/2016	EUROGIN 2016; HPV in Cancer Salzburg, Austria	HPV synergistic association with KRAS towards promoting Aberrant DNA Met in Colorectal Cancer
2	27-29/10/2014	Aqaba International Conference at <i>Aqaba, Jordan</i>	DNA Barcoding in Marine Perspective: Marine and Coastal Environment, Status and Challenges.
3	27-31/10/2013	5 th International Barcode of Life Conference, <i>China.</i>	DNA Barcoding of Fishes collected from Red Sea coastal waters of Tabuk, Saudi Arabia
4	12-18/02/2012	DNA Barcoding (1 week)	DNA Barcoding-SOLO programme at Bangladesh
5	6-12/11/2009	International Barcode of Life, UNAM, Mexico City	DNA Passport of Flora and Fauna from India
6	27/4 to 05/5/2008	DNA BARCODE OF LIFE at University of Guelph	Biodiversity of Northeast and Sunderbans: Molecular Taxonomy

Participation and contribution in National/International Fora in the area of your academic and professional expertise

		Number(s)
Plenary Lectures/ Invited Talks	International	More than 5, USA, Canada, Mexico, Germany, Austria, etc
	National	More than 100, Like JNU, BI, IICB, ILS, IISER-K, NIBMG, NII, etc Northeast: University: Tezpur, Tripura, Mizorum, Manipur, NEHU,

		Guwahati, Dibrugarh and other Private University and Colleges <i>Institute:</i> IITg, IASST, CSIR-NEIST, BBRC (Cancer), CCHRC, etc
Congresses attended	International	More than 10 (USA, Canada, Mexico, Germany, Austria, etc)
	National	More than 30 (SBC and different societies)
Examinership etc.	International	Frequently
	National	More than 30 (IITg, JNU, JU, CU, KIIT) and State/Central Universities
Others (Specify)	International	Visited more than 20 countries for academic interest and collaborations Execution of MoU with international and national reputed Institute
	National	Consortium projects with Inst./Uni., to developed NER [details Sl. No. 9] Delivered Entrepreneurship and Career hub to promote young/women, Expert member to developed DBT BIG ignite programme in Northeast

Completed Research Projects: Nine [2009-18] as Principal Investigator

S. No.	Client/ Organisation's name	Nature of project	Duration of project	Amount of grant (Rupees)
1	Dept of Biotechnology, Govt. of India	Northeast Oral Cancer Hospital based genomics With Cachar Cancer Hospital.	06 Yrs 2009 to 16	Total 188 Lakh (as PI)
2	DBT, Govt. of India	Genomic diversity of Bio-resources (DNA Barcoding of fish & turtle).	05 Yrs (2009- 15)	128 Lakh (as PI)
3	DBT [Consortium project]	A comprehensive understanding of the Nasopharyngeal Carcinoma (NPC) in the NER	05 Yrs 2010 to 2016	Total 800 lakh 129 Lakh to AUS
4	Biotechnology, Govt. of India	Evaluation of Microbial Biodiversity in marsh lands of Silchar, North-East ... PCR and DNA sequencing based methods. with JNU	03 Yrs (2010-2014)	39.14 Lakh to (as PI) TOTAL 76 Lakh
5	Biotechnology, Govt. of India (Twining)	Investigation on anticancer property of Pierisin from Pierid butterfly with MZU)	03 Yrs (2011-15)	Total 99 lakh (as PI)
6	UGC, MHRD	UGC-SAP (DRS-I) completed ongoing DRS-II	DSR-I (12-16) DRS-II (16-22)	51 lakh (DRS-I) 117 Lakh (DRS-II)
7	Biotech, Govt. India (Twining)	Nitronium and Nanoparticles: Synthesis, Charact., in Photodynamic Therapy (PDT)	03 Yrs (2012-15)	31.11 Lakh (as PI)
8	Biotech, Govt. India (Twining)	Validation of the SNPs involved.. Oral Cancer among tobacco chewers identified in the NER.	3 years (2013-16)	Total 100 Lakh (as PI)
9	ITRA- Meity, GoI	Genome Aadhar on "ImageIDGP: Image ...of Pigs and Goats" with 8 Institutions including IIT- Guwahati, ICAR Research Complex for NEH Region, Umiam-793103, Meghalaya	02 Years (2016-18)	Total 309.48 Lakh (as PI)

Consulting experience:

List key consulting assignments undertaken:

S. No.	Client/ Organisation's name	Nature of assignment	Duration of assignment
1	Assam University	Services on PCR based diagnosis and Sequencing	Last 5 years (2012-16)
2	Kalyani University	State-of-Art Instrument service	4 Years

Honours /Awards & Fellowships for Outstanding Work: More than 25

- ✓ Fellow of National Academy of Science, India [FNASc]-2015
- ✓ Colonel Honorary, NCC-Indian Army, Govt of India, 2017
- ✓ Life Time Awards, Crop & Weed Science Society 2017
- ✓ Best Laboratory in Northeast Competitive DBT, Govt. of India 2017
- ✓ National Member, Cataloguing of Ornamental Fishes, NFDB, Govt. of India
- ✓ National Merit fellowship, Indian Council of Agricultural Research (ICAR) 1982-87 for 5 years.
- ✓ 1st Class First in Masters degree during MVSc in Animal Genetics and Breeding

- ✓ **National 1st Ranking in Postgraduate level**, (1990), winner of academic award
- ✓ **University merit scholarship** during Master Degree. (1987-89) from ICAR for two years.
- ✓ **JNU Foundation award** for Academic Excellence at Post graduate, (1989)
- ✓ **Being a Veterinary Graduates**, Qualified National Eligibility Test (**NET**) in Life Science (CSIR-UGC), December, 1989
- ✓ **Research Merit fellowship** in Animal Genetics and Breeding, ICAR (1990-92) at BCKV
- ✓ **Senior Research Fellow (SRF)-Technical** Council of Scientific and Industrial Research (CSIR), 1992-94 to at Department of Biochemistry, Bose Institute, Kolkata.
- ✓ **Best award in 97th Indian Science Congress in Physiology and Medical Section (2010), Kerala-(citation and money)**
- ✓ **Best award in 98th Indian Science Congress in Animal Sciences (2011), Chennai-(citation and money)**
- ✓ **RAJIV GANDHI EXCELLENCE AWARD (2011)**” on the Occasion of Economic Growth and National Integration, selected by International Friendship Society, New Delhi
- ✓ **INDIRA GANDHI SHIROMANI AWARD (2011)**” selected by International Friendship Society, New Delhi.
- ✓ **“BEST CITIZENS OF INDIA AWARD (2011)”** awarded by International Publishing House (IPH), New Delhi.
- ✓ **Who’s Who award (2015)** in the Dictionary of the **Asia/Pacific Who’s Who Vol. XIV page-164** from Rifacimento International, New Delhi
- ✓ **Indian Young Scientist: 16th INTERNATIONAL** Congress of Biochemistry & Molecular Biology (**IBUMB**) in 1994.
- ✓ **NIH-US award Post-doctoral fellow at Cleveland Clinic Foundation, 2005-07** for 2 years to work on frontier biotechnology with Jim Finke, LRI, CCF, USA
- ✓ **Travel award to Mexico** for 3rd INTERNATIONAL Barcode of Life (2009)
- ✓ **Resource person selected by USDA** to conduct 5 days solo Scientific programme on DNA barcoding with my lab mates (2012) at Chittagong University, Bangladesh
- ✓ **CCPL WORLD-WIDE (Education Charter INTERNATIONAL) award FOR EXCELLENCE** in Higher education in Biotechnology (2010) [cclpworldwide.com]
- ✓ **Internal Advisor** at Tabuk University, Saudi Arabia
- ✓ **ICMR INTERNATIONAL TRAVEL award (2014-15)** from **ICMR, GoI**, for working on Genomics at **Boston University, USA**
- ✓ **TOP 100 SCIENTISTS award (2015)** from International Biographical Centre, **Cambridge, England**
- ✓ **International Travel Award**, Science and Engineering Research Board (SERB), Government of India to present paper at AUSTRIA (2016)-EUROGIN

No. of Research Scholars successfully guided :

Name of Programme	Awarded (No.) (Under-progress not to be included)
Post-doctoral Fellow* (Mentor): TOTAL-6	National - 5 (DBT) International-1 (DBT Visiting for one year from UCLA, US)
PhD Guidance**	Supervisor 24 - AWARDED
	Submitted/to be Submit-5: Co-supervisor: 6-Awarded
M. Phil (Supervisor)	Three (3)
Maters Project work (Supervisor)	More than 57 (in terms of minimum 6 months)

#	*Name of PDF	Title of the Project/Major Area	Remark
1.	Dr. Santanu Chowdury	UCLA, USA as PDF DBT overseas Fellow	One year (2014-15)
2.	Dr. Lalramliana	Freshwater Fish DNA barcoding (DBT -2013)	Assit. Prof., Mizoram Uni.
3.	Dr. Shilpee Srivastava	Arginine metabolism as Cancer Biomarker	BHU, June 2012-16
4.	Dr. Boni A Laskar	Mahasheer fish from northeast India DBT RA-2011-14	Scientist at ZSI
5.	Dr. K. C. Das	DNA barcoding of tortoises of NER DBT-RA 2010-12	Assist Prof. Mizoram Uni.
6.	Dr. Biswajit Chakraborty	Methanogenomics of land fields with JNU	Scientist at IITg

Ph D awarded-24 as Supervisor			
#	Name of the PhD	Area of work (thesis title)	Present position
1.	Rosy Mondal, M.Sc. Biotechnology	Prevalence of oral cancer and its association with mitochondrial DNA mutation from north east India	Inspire Faculty at IASST, DST
2	Maloyjo Joyraj Bhattacharjee M.Sc. Life Science	Studies on DNA barcoding and genomic diversity of fish genetic resources in and around Barak river	Scientist, IASST, DST
3.	Ksh. Miranda Devi, M.Sc. Life Science	Studies on DNA barcoding of endemic animals and population structure of pony found in Manipur	DBT-RA at IBSD (DBT)
4.	Pradosh Mahadani, MSc Bioinformatics	Studies on DNA markers of for species level identification of common medicinal plants.	Scientist Tea Board
5.	Shantanu Kundu, M.Sc. Microbiology	Studies on DNA barcoding and genetic diversity of tortoises of east India	PDF (Pool Officer) at ZSI
6.	Jagadish Hansa, M.Sc. Biotechnology	Prevalence of cancer associated genes in breast cancer patients in the hospital based study from Assam	MS & SUM Hospital,
7.	Kh. Bijoya Devi, M.Sc. Biotechnology	Studies on DNA barcoding of ornamentals fishes from Manipur	RA, GU
8.	Monika Ahanthem, M.Sc. Biotechnology	Studies on DNA barcoding of economical animals of Barak valley	School Teacher
9.	Susweta Das Mitra, MSc, Biotechnology	Unravelling of <i>Staphylococcus aureus</i> dependant induction of immune cells and inflammatory mediators in murine model	Asst Professor
10.	Fazlur Rahman M.Sc. Biotechnology	Study on CpG island methylator phenotype (CIMP) in oral and esophageal squamous cell carcinoma	PDF, IARC, Lyon
11.	Ruhina Shirin Laskar, M.Sc. Biotechnology	Molecular characterization of colorectal cancer in north-east India: implications of microsatellite instability, CpG island methylator phenotype (CIMP) and viral pathogenesis	PDF, IARC, Lyon
12.	Dr. Biswadeep Choudhury, M.D.	A study on molecular markers in a hospital based patients suffering from HNC cell carcinoma from southern Assam	Professor, SMC&H, Assam
13.	Dr. Prabol Ranjan Ghosh, MVSc	Studies on molecular diversity of indigenous breeds of poultry in the state of West Bengal and Assam	Associate Prof. WBUAFSc,
14.	Mohua Chakraborty, Bioinformatics	Adaptive evolution of Crustaceans as an implication of variation in mitochondrial genome	PM-Fellow, DST
15.	Joyaborta Nath, MSc, Life Science	Problem in Amoebiasis Diagnosis and a Molecular Epidemiological Approach in North East India	Asst. Professor
16.	Dr. P J Das	mtDNA genomics in goat and sheep	Principal Scientist, ICAR
17.	Mridul Mohan Das, M.Sc. Bioinformatics	Development of DNA barcoding of different bamboo species of Southern Assam [VIVA in August/Sept]	Assistant Prof GC College
18.	Bishal Dhar MSc,	DNA barcoding of ornamental fishes of northeast INDIA	Scientist, KU
19.	Anil Seram, MSc (Biotech)	Study of the risk factors associated with Nasopharyngeal carcinoma in north-east India	Premas Biotech
20.	Shailendra Yadav, MSc Biotechnology	Identification of Microbial Diversity Present in the Leachate Sample from Quantification of Methanogens.	NPDF
21.	Javed H Choudhury	Studies on human pappilomavirus (HPV) prevalence, genetic polymorphisms and epigenetics in head and neck cancer	Scientific rwiter
22.	Rajeev Kumar, MSc, Biotechnology	Epidemiological, Biochemical and Molecular factors Associated with Clinical outcome of Esophageal Squamous Cell Carcinoma in the North Eastern India	Scientist, CCHRC, Assam
23.	Sharbadeb Kundu M Tech (BT)	Assessment of whole genome germline single nucleotide polymorphisms: a susceptibility to oral cancer in prolonged tobacco chewers from northeast Indian population	Assist Professor Kalyani University

24.	Manish Kumar, MSc (VIT)	Genomics in Cell free DNA: A prognostic non-invasive marker in Head and Neck Cancer	Scientist at GenKart, new Deldi
Ph D thesis Submitted/Submit within 6 months as Supervisor			
25.	Raima Das, MSc (Biotech)	Distribution of germline mutation in HNC from ethnic population of NEr : Submitted	Silchar Medical College
26.	Shaheen Laskar MSc (Biotech)	Exome sequencing in NPC of different tribes of NEr: prediction of risk alleles in the population : Submitted	MAN Fellow
27.	Ms. Malvika Sorok	DNA barcoding and genetic diversity of Domestic Poultry from East and Northeast India : Submitted	Service in academics, Manipur
28.	Dr. Sumita Dutta Gupta, MD (Pathology)	Studies on cytogenetics and gene expression of growth differentiation factor-9 (GDF-9) and bone morphogenetic protein (BMP15) in female infertility: a hospital based study	Associate Professor, Silchar Medical College
29.	Ms. Neelima Ningthoujam	Genetic diversity of Endemic Bovidae of Hilly Cattle (Siri, Yak and Mithun) in Northeast India using mtDNA d-loop: Writing	University Fellow
Act as Co-Supervisor [Awarded]-SIX			
1.	Durga Sharma, Biotechnology	Microbial molecular diversity from waste of paper mills under Prof GD Sharma, VC, Bilashpur University (AWARDED)	
2.	Aditi Bhowmik	Cancer genomics under Dr. Y Choudhury, Assam University [Awarded]	
3.	Dr. Rajesh Paul, MVSc (AGB)	Mitochondrial DNA Based Diversity Analysis of Black Bengal Goat in Its Native Tract [Complete work done in my Laboratory] Awarded	
4.	Dr. Prasanta Bera, MVSc.	Genetic diversity of endemic bovidae [Siri cattle] from North-Himalayan areas, North Bengal University, WB [Complete work done in my Laboratory]	
5.	Shambudha Das	Cancer genomics [head and neck] under Dr. Y Choudhury, Assam University	
6.	Sayantana Nath	Diabetics in mice model under Dr. Y Choudhury, Assam University	

M Phil-3

1.	Wetetsho Kapfo	Molecular diagnosis of Epstein-Barr virus (EBV) and Genotoxicity genes (GSTT1 and GSTM1) of Nasopharyngeal cancer in different ethnic group of Nagaland	Scientist at Nagaland
2.	Nilkantha Chatterjee	Molecular characterization of leeches on Yak tracts of Arunachal Pradesh	Doing PhD as MAKUAT
3.	Kanak Chakraborty	Study of the genomic variants in genes encoding Histone Deacetylases (HDACs) associated with cancer	Doing PhD at Tripura University

LIST OF PROJECTS [6 months] OF MASTER DEGREE 6 months

#	Name	Topic of project
1.	Priyanka Yumnam	Individual and Family DNA barcode and Phylogenetic relationships using mitochondrial DNA D-loop
2.	Paramita Bhattacharjee	Association of Circulating miRNA with Susceptibility to Type 2 Diabetes mellitus: Evidence From Case Control Study and Meta-analysis
3.	Gayatri Nath	DNA Barcoding and its Analysis of Amphibian Species from Northeast India
4.	Reetom Paul	Molecular identification of risk alleles in nasopharyngeal cancer from north-east India
5.	Satarupa Das	Genetic polymorphisms of Metabolizing Genes (<i>GSTT1</i> & <i>GSTM1</i>) and susceptibility to cancer: a case-control study
6.	Madhurima Chakraborty	Study of reptile species of Saudi Arab through DNA barcoding

7.	Apurba Ghose	Identification of rare species and molecular positioning of living fossils from Sunderban
8.	Rubee Singha	Xenobiotic polymorphism genes in Thyroid patients from Barak Valley
9.	Raima Das	Screening of Hotspot Polymorphism associated With Nasopharyngeal Cancer By Snapshot: A Multiplex SNP Genotyping Tool
10.	Sanghita Das	DNA Barcoding through Matrix COLD-PCR: As a tool for Species Identification
11.	Sourav Sen	Polymorphism in Xenobiotic Metabolizing Genes (GSTT1 & GSTM1) and their Interaction with Environmental factors in Nasopharyngeal Cancer, Assam
12.	Indrani Suklabaidya	DNA barcoding of red sea fishes
13.	Tayaram Basumatary	Variants of Tribes in North-East India using Mitochondrial D-LOOP
14.	Taufikul Islam	Genetic polymorphism of xenobiotic metabolizing genes (GSTM1, GSTT1&CYP1A1) in oral cancer: a case-control study and meta-analysis
15.	Pinki Bhattacharjee	Genetic polymorphism of DNA Repair genes XRCC1, XRCC2 in risk of oral cancer : a case-control study and meta- analysis
16.	Aparajita Das	Genetic polymorphisms of xenobiotic metabolizing genes in different tribal population from Northeast India
17.	Moonmi Chetia	Analysis of mutation by AS-PCR and COLD-PCR on TPO gene
18.	Khomdram Niren Singh	Study of the risk associated with Life-style behaviour, EBV, xenobiotic metabolic genes (GSTT1, GSTM1, CYP1A1) and NPC in Northeast Indian population
19.	Haider H Choudhury	Biomarkers for Head and Neck Squamous Cell Carcinoma of Southern Assam: A proteomic approach
20.	Tapasi Sinha	Association of p53, KRAS, and BRAF mutations in colorectal cancer
21.	Pallabi Hazarika	Microsatellite instability in Colorectal and Breast cancer : a case study and its meta-analysis
22.	Saurav Phukan	Screening of polymorphism in TNFRSF19, MECOM AND CDKN2B-AS1 genes associated with nasopharyngeal cancer in the north-east Indian population
23.	Amirul Hussain Choudhury	Evaluation of CpG Island Methylator Phenotype(CIMP) in Oral Squamous Cell Carcinoma
24.	Marine Hussain	COLD-PCR based detection of hot spot mutation in breast associated cancer gene1 (BRCA1) in different cancer patients
25.	Monisha Nath Choudhury	Prevalence and risk profile of HPV and EBV infection in North-East India
26.	Bijuli Rabha	Genetic polymorphism of GSTT1 and GSTM1 on susceptibility of various cancers in Assam and Tripura states of northeast India
27.	Soumitra Das	Genetic calibration of Indian fishes based on DNA barcoding
28.	Arup Kumar Tappi	COLD-PCR based Detection of TPO gene mutation having Thyroid dysfunction (Hypothyroidism)
29.	Manna Chandra	DNA barcode analysis of turtle and tortoise on a global perspective
30.	Kavita Sinha	Real time PCR based mitochondrial copy number variations in head and neck cancer
31.	Santanu Dhar	PCR based detection metagenome from swamps
32.	Arijit Bhattacharjee	<i>In-silico</i> universal primer design for DNA Barcode sequence of poaching animals
33.	Priyanka Sarkar	Study the Genetic Diversity of Siri breed (<i>Bos indicus</i>) from Himalayan region
34.	Siva Rajwangshi	Development of DNA Barcoding of Common Medicinal Apocynoideae (Apocynaceae) Plants
35.	Kisholay Mazumder	Development of DNA Barcode sequences of common Catfishes fish from Brambaputra River
36.	Peenaz Rehman	Study of TPO gene of thyroid related patients
37.	A. Debola Devi	Study on Genetic Diversity of <i>Citrus limon</i> from Manipur

38	Jerry Mochahary	Development of DNA Barcode sequence of Golden Langur from Assam
39	T H. Mazumder	Development of DNA Barcode sequence of Rhinoceros
40	A. Debsharma	RAPD technology in Farm Animal Meat Identifications
41	Kalyan Roy	Development of Major Fish Specific RAPD markers
42	Debalina Das	Molecular cataloguing and interrelationship of Labeo species of Barak Valley based on DNA Barcoding
43	Bishal Dhar	Prevalence of the Iodine Deficiencies Disease (IDD) among the people of southern Assam and isolation and amplification of target gene TPO for genetic study
44	W. Memton Singha	Molecular Base Diagnosis of HPV16 and HPV18 by PCR technique
45	Debashree Nath	A Study of the <i>matK</i> and <i>trnH-psbA</i> Region for Finding Potential Candidate DNA Barcode Within the Citrus
46	Chandra K. Bhattacharjee	Mitochondrial D-loop hyper-variable region as an Individual Barcode for human
47	Kalpika Choudhury	PCR based rapid detection of respiratory and genital tuberculosis in and around Barak valley
48	Debolina Baishya	Molecular identification of Citrus species of Barak Valley using coding (<i>matK</i>) and non-coding (<i>trnH-psbA</i>) region
49	Bishwakush Deb	DNA Barcoding in Identification of Channa Fishes of Southern Assam
50	Arunjyoti Chetri	Studies on DNA Barcoding sequence of Bovidae (Cattle and Buffalo) and Felidae (Royal Bengal Tiger and domestic Cat)
51	Sayantika Roy	In-silico studies of mitochondrial genome of Carnivores
52	Sumanjit Deb	Studies on codon usage and base composition of complete Mitochondrial Genome in Different Crustaceans
53	Fazlur Rahman	Analysis of Mitochondrial genome of Gnathostomes and Mechanism of conservation of COXI polypeptide
54	Amarjit Roy	DNA Barcoding of Hilsa Fishes in Barak Valley
55	Ruhina Shirin Laskar	Analysis of the complete Mitochondrial genome of primates with special reference to D-loop substitution
56	Dr. P J Das, MVSc	mtDNA genomics in goat and sheep
57	Dr. F Jay, MVSc	Bioinformatics in dog and human