

Faculty Profile- Dr. Joyobrato Nath

Designation: Assistant Professor

Qualification: PhD, PGDBI, CSIR-NET, UGC-SLET

Area of interest: Molecular Biology and Medical Biotechnology

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YouTube channel: <https://www.youtube.com/channel/UCmmBhnYPxtRZrpUN-Qcf9zw>

Research Gate: <https://www.researchgate.net/profile/Joyobrato-Nath>

Google Scholar: <https://scholar.google.com/citations?user=x80gllsAAAAJ&hl=en>

Educational Profile:

No	Degree	Major Subject/ Area	Institute	Year
1	B.Sc.	Zoology Honours	Karimganj College, Kaimganj	2008
2	M.Sc.	Life Science (Zoology)	Assam University, Silchar	2010
3	Ph.D	Molecular characterisation and discrimination of morphologically identical pathogenic and nonpathogenic Entamoeba species.	Assam University, Silchar	2015

Teaching/ Research/ Administrative Experience:

No	Name of Post	Institution	From	To
1	DBT-JRF	Molecular Parasitology Lab, G. C. College, Silchar	16/05/2011	20/05/2013
2	DBT-SRF	Molecular Parasitology Lab, G. C. College, Silchar	21/05/2013	30/10/2015
3	Assistant Professor	Department of Zoology, Cachar College, Silchar-01, Assam	04-09-2019	Till Date

Research Papers Published in National/ International Journal (Total: 14)

Latest Publications:

- (1) Paul R, **Nath J**, Paul S, Mazumder MK, Phukan BC, Roy R, Bhattacharya P, Borah A. 2021. Suggesting 7, 8-dihydroxyflavone as a promising nutraceutical against CNS disorders. *Neurochem Int.* 19:105068 [ISSN: **0197-0186 & Impact Factor: 3.881**]
- (2) **Nath J**, Paul R, Ghosh SK, Paul J, Singha B, Debnath N. 2020. Drug repurposing and relabeling for cancer therapy: Emerging benzimidazole antihelminthics with potent anticancer effects. *Life Sci.* 258: 118189 [ISSN: **0024-3205 & Impact Factor: 3.647**]
- (3) Paul R, Mazumder MK, **Nath J**, Deb S, Paul S, Bhattacharya P, Borah A. 2020. Lycopene - a pleiotropic neuroprotective nutraceutical: Deciphering its therapeutic potentials in broad spectrum neurological disorders. *Neurochem Int.* 140: 104823 [ISSN: **0197-0186 & Impact Factor: 3.881**]
- (4) **Nath J**, Singha B, Paul J, Ghosh SK. 2018. Diagnosis and epidemiology of amoebiasis in India. *Curr. Sci.* 114(10): 2045-2052. [ISSN: **ISSN 0011-3891 & Impact Factor: 0.756**]
- (5) **Nath J**, Ghosh SK, Singha B, Paul J. 2015. Molecular epidemiology of amoebiasis: a cross-sectional study among North East Indian population. *Plos Negl Trop Dis.* 9(12): e0004225. [ISSN: **1935-2727 & Impact Factor: 4.45**]
- (6) **Nath J**, Hussain G, Ghosh SK, Bhattacharjee P, Singha B. 2014. Prevalence and risk factors associated with infection of major diarrhoeagenic protozoan parasites in HIV patients with ART at Silchar Medical College and Hospital, Assam, India. *BMC Infect. Dis.* 14(Suppl 3):P4. [ISSN: **1471-2334 & Impact Factor: 3.33**]
- (7) **Nath J**, Hussain G, Singha B, Paul J, Ghosh SK. 2015. Burden of major diarrhoeagenic protozoan parasitic co-infection among amoebic dysentery cases from North East India: a case report. *Parasitol.* 142(10):1318-25. [ISSN: **0031-1820 & Impact Factor: 2.35**]
- (8) **Nath J**, Banyal N, Gautam DS, Ghosh SK, Singha B, Paul J. 2015. Systematic detection and association of Entamoeba species in stool samples from selected sites in India. *Epidemiol Inf.* 143(1):108-119. [ISSN: **0950-2688 & Impact Factor: 2.87**]
- (9) **Nath J**, Ghosh SK, Bhattacharjee P, Paul J, Singha B. 2014. High prevalence of Entamoeba moshkovskii infection in HIV seropositive patients of Barak Valley, Assam, India. *BMC Infect. Dis.* 14(Suppl 3):P1. [ISSN: **1471-2334 & Impact Factor: 3.33**]

Book Chapter or Edited Book Published (Total: 05)

Latest Publications:

- (1) **Nath J**, Debnath N (2017) Fish bio-marker: an appealing tool for assessment of heavy metal contamination in the aquatic ecosystem. In: Gautam A, Pathak C (Eds.), *Metallic contamination and its toxicity*. Daya publishing house, New Delhi, India pp. 99-111
- (2) **Nath J** (2017). Aquaculture biotechnology. In: Singha B, Dey A (Eds.), *A textbook on fish and fisheries: from basic ichthyology to aquaculture biotechnology*. Invincible publishers, Gurgaon, India, pp. 205-244.
- (3) Dhar B, Ghose A, Kundu S, Choudhury A, Ghorai S, Trivedi S, **Nath J**, Ghosh SK (2016) DNA barcoding of primitive species-nemertine from sundarbans marine bio-resource. In: Trivedi S, Ansari AA, Ghosh SK and

Rehman H (Eds.), DNA barcoding in marine perspectives, Springer international publishing AG, Switzerland, pp. 157-168.

- (4) **Nath J** (2017) Aquaculture practices. In: Singha B, Dey A (Eds.), A textbook on fish and fisheries: from basic ichthyology to aquaculture biotechnology. Invincible publishers, Gurgaon, India, pp. 103-156.
- (5) Debnath N, **Nath J** (2017) Fish morphology and physiology. In: Singha B, Dey A (Eds.), A textbook on fish and fisheries: from basic ichthyology to aquaculture biotechnology. Invincible publishers, Gurgaon, India, pp. 19-76.

Invited Talk in Seminar, Workshop (Total: 02)

Latest Talks:

- (1) Invited talk on **“PCR in early diagnosis of cancer”** in the event of popular talk on Awareness on cancer: early diagnosis and association with dietary habits and life style, organized by Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya-Eraligool, Karimganj, Assam.
- (2) Invited talk on **“Recent advances in molecular biological techniques (MBTs): their relevance to cancer biology and infectious disease research”** in a DBT-sponsored five days workshop organized by Institutional Level Biotech Hub, Cachar College, Silchar, Assam.
- (3) Invited talk on **“Basic molecular biological tools and techniques in era of genetic manipulation”** in a DBT-sponsored five days workshop organized by Institutional Level Biotech Hub, Cachar College, Silchar, Assam.

Presentation in national/international seminar (Total: 07)

Latest Presentations:

- (1) Paper entitled **“Appraisal of DNA hybridization and multiplex PCR in species and strain discrimination: an integrated systematic approach”** presented in national seminar on biotechnology vis-a-vis rural development, S. S. College, Assam.
- (2) Paper entitled **“QSAR analysis and virtual screening of combinatorial library in search of cruzain inhibitor”** presented in 102th Indian Science Congress, University of Mumbai, Mumbai, India.
- (3) Paper entitled **“Prevalence of E. histolytica opportunistic infection in HIV seropositive patients of Southern Assam, India”** presented in 100th Indian Science Congress, Calcutta University, Kolkata, India.
- (4) Paper entitled **“Prevalence and risk factors associated with infection of major diarrhoeogenic Protozoan parasites in HIV patients with ART at Silchar Medical College and Hospital, Assam, India”** presented in international science symposium on HIV and Infectious Diseases, Chennai, India.
- (5) Paper entitled **“Molecular detection of prevalent waterborne and foodborne protozoan parasitic infestation of salad vegetables”** presented in symposium on recent Advancements in Environmental Research (RAER 2017), IIT, Guwahati.

Members of Professional/ Administrative Bodies and Committees:

Sr. Nos.	Role	Name of the body or Committee	Time period
1	Web Administrator	Maintenance of the official website of Cachar College (https://www.cacharcollege.ac.in/)	04-09-19-till date
2	Joint-Convener	Organizing committee of Online on job training on Fish & Fisheries management, organized by Department of Zoology Cachar College in collaboration with CIFRI, Guwahati & College of Fisheries, Tripura	19-01-21 to 24-01-21
3	Resource person	Awareness programme on online classes, organized by Cachar College, Silchar	06-10-20 to 07-10-20
4	Assistant-officer-charge (AOC)	TDC even semester examination, 2020	30-09-20
5	Resource person (Judge)	Regional level 27th children science congress, 2019	19-10-19
6	Member	Organizing committee of national webinar on importance of Yoga in present day, organized by Department of Philosophy, Cachar College & ICPR, New Delhi.	01-07-20 to 02-07-21
7	Member	Organizing committee of late Shyamal Kanti Paul memorial lecture, organized by Department of Zoology and ILB Hub, Cachar College.	30-09-2019
8	Member	Primary screening committee for the advertisement of Assistant Professor in Cachar College	03-12-20
9	Member	Online admission committee of Cachar College, 2019-2020.	Session 2019-2020
10	Member	Different committees in the corporate life of Cachar College, Silchar	04-09-19-till date