

# Curriculum Vitae



**Mr. Krishnendu Ghosh**

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July 13<sup>th</sup>, 1985



Indian



Married



Bengali  
English  
Hindi



Reading, Listening soft  
instrumental, Cloud photography,  
Night sky hunting (cosmogazing)

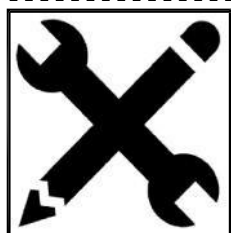


- **Research Eligibility Test (RET)** conducted by Department of Zoology, University of Calcutta as mandate for Ph.D registration, Year **2015**.
- **M.Sc** from Bangabasi College, Kolkata (affiliated to University of Calcutta) with **Zoology & Cytogenetics (special)** in First Class (**70.00% ; CGP 4.78**), Year **2008**.
- **B.Sc** from Narsinha Dutt College, Howrah (affiliated to University of Calcutta) with **Zoology (major/honours), Botany & Chemistry** in Second Class (**59.25%**), Year **2006**.
- **Higher Secondary** (WBCHSE) from Santragachi Kedernath Institution, Howrah in First Division (**66.30%**), Year **2003**.
- **Madhyamik** (WBBSE) from Santragachi Kedernath Institution, Howrah in First Division (**70.77%**), Year **2001**.



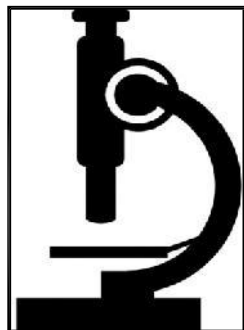
- ❖ Qualified **International English Language Testing System (IELTS) Academic Module** from University of Cambridge (UK) conducted by British Council & British Deputy High Commission, Kolkata with 6.5 out of 9 (overall band score), Year **2011**.
- ❖ Certificate course in ‘**General Computer Software Operation & Internet**’, Year **2003**.

- ❖ National e-short term course in “**Astrobiology: Planets and Life**”, organized by Institute of Biological Science, SAGE University, Indore, India, 29<sup>th</sup> june-5<sup>th</sup> july 2020.



- Proficiency in **handling of human tissue** samples (both malignant and non-malignant types).
- Capable of **handling and dissection of vertebrate and invertebrate** animal species.
- Exhaustive experience in **Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Hematoxylin-Eosin staining, Silver-Gold staining**.

- Prolonged experience in manifold **animal cell culture** techniques.
- Practical experience in **hospital based human post operative biopsy tissue sample collection**.
- Experience in **basic bacterial culture**.
- Experience in **gel electrophoresis (agarose, SDS-PAGE), Western Blot, Zymogram**.
- Experience in **PCR, RT-PCR, qRT-PCR**.
- Hands-on experience in **flow cytometry**.
- Experience in **cytological techniques** like Cell Viability Assays (Trypan, MTT), Invasion Assay (Boyden Chamber).
- Experience in handling **Fluorescence Microscope & Transmission Electron Microscope (TEM)**.

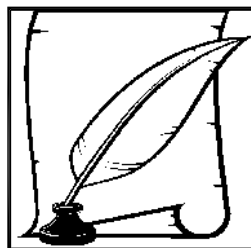


▪ Short term research project work (without fellowship) on “**bacterial time kill kinetics in response to certain antimicrobial substances**” at **Indian Institute of Science Education & Research, Kolkata (IISER-Kolkata)** under the supervision of **Dr. Tapas Kumar Sengupta**, from **17.09.2008** to **09.01.2009**.

▪ Worked as project fellow (without fellowship) at the **Department of Biophysics Molecular biology & Bioinformatics, University of Calcutta** on a project related to “**Anti carcinogenic effect of certain chemically synthesized thiophene derivatives on breast and lung cancer cell lines**” under the supervision of **Dr. Sumita Sengupta**, from **01.04.2011** to **19.04.2013** fetching one (1) research communication [co-authorship].

▪ Worked as project fellow (without fellowship) at the **Immunobiology lab, Department of Zoology, Panihati Mahavidyalaya (affiliated to WBSU), Sodepur, Kolkata** on “**Go / grow dichotomy of human glioma with microglial imposition**” under the principal instructorship of **Dr. Anirban Ghosh**, from **02.05.2013** to **06.05.2015** fetching one (1) research communication [co-authorship].

▪ Currently working as doctoral research scholar (ICMR fellowship) jointly at **Environmental epigenomics lab, Department of Environmental Science, University of Calcutta & Immunobiology Lab, Department of Zoology, Panihati Mahavidyalaya (affiliated to WBSU), Sodepur, Kolkata** on “**Go / grow dichotomy of human glioma with microglial imposition**” under joint instructorship of **Dr. Pritha Bhattacharjee (supervisor) & Dr. Anirban Ghosh (joint supervisor)** of the said institutes respectively from **07.05.2015** to till date fetching one (1) research article [first authorship] and one (1) review article [first authorship]. Another two (2) are in the pipeline among which one (1) has been communicated. **Pre-thesis submitted and defended on September 2019.**



▪ **Ghosh K, Ghosh S, Banerjee S, Chatterjee U, Bhattacharjee P, Ghosh A:** Low-Grade CNS Tumors Show Inverse Ki67-MMP2 Expression with Variable Macrophage and Microglia Infestation [**Communicated**]

▪ **Ghosh K, Bhattacharjee P, Ghosh S, Ghosh A.** Glia to glioma: A wrathful journey. *Adv Mod Oncol res* 2017; 3(3): <http://dx.doi.org/10.18282/amor.v2.i3.186>.

▪ **Ghosh K, Ghosh S, Chatterjee U, Chaudhuri S, Ghosh A.** Microglial Contribution to Glioma Progression: an Immunohistochemical Study in Eastern India. *Asian Pacific journal of cancer prevention: APJCP*. 2016;17(6):2767-73.

▪ **Ghosh P, Mukherjee N, Ghosh K, Mallick S, Pal C, Laskar A, et al.** Prospective microglia and brain macrophage distribution pattern in normal rat brain shows age sensitive dispersal and stabilization with development. *Indian J Exp Biol* 2015;53:561–567.

▪ **Sarkar P, Maiti S, Ghosh K, Sengupta S, Butcher RJ, Mukhopadhyay C.** p-tert-Butylcalix [8] arene catalysed synthesis of 3, 5-dinitrothiophene scaffolds: antiproliferative effect of some representative compounds on selective anticancer cell lines. *Tetrahedron Letters*. 2014 Jan 29;55(5):996-1001.



- **Life member** of “**Indian Academy of Neurosciences (IAN)**” [Mem. No. LG-89].
- **Life Member** of “**Indian Science Congress Association**” [Mem. No. L32774].
- **Life Member** of “**The Zoological Society Kolkata**” [Mem. No. LM.L/G-88].
- **Life Member** of “**Indian Immunology Society**” [Mem. No. LM/IIS/609/08/17].

- Winner of the first prize medal for the seminar talk presentation titled ‘application of advanced instrumentations and statistics in glioma biology’ at the “ *Workshop for teacher and researchers for the application of advanced instrumentations and statistics*” at the Zoological Society Kolkata on 04.11.2015
- Entitled to *ICMR Research Assistant Fellowship* from 07.05.2015 to 28.02.2018.
- Winner of **Junior Scientist of the Year 2018 Award** by IASR Kolkata for the seminar talk presentation titled ‘Low to high grade transformation: a comparative study on human CNS tumors hinting disproportionate molecular and physiological attributes’ at the “ *International Multidisciplinary Conference on “Biodiversity, Climate Change, Physical and Life Science”*”, held on 21-22 January 2019 at DHSK College, Dibrugarh, Assam.
- Invited lecture given in ‘One day international invited lecture on biology and genomics for cancer therapy’ organized by Department of Zoology & IQAC, Narsinha Dutt College, Howrah, West Bengal entitled “Nooks and corners of cancer showcasing human glioma: a run up for therapeutics” on 30.09.2019.
- Winner of prestigious Edward Kennedy Memorial Award as best oral presentation at 3<sup>rd</sup> *World Cancer Congress (Mumbai Healthcare Summit 2019)* at Royal Orchid Central Grazia, Vashi, Mumbai, India 20<sup>th</sup> - 21<sup>st</sup> November 2019 entitled ‘Addressing Proliferation-Invasion Dichotomy with Neoangiogenic Switching and Epigenetic Modulation: An Experimental Search over Post- operative Human CNS Tumor Tissue Samples’.



1. Presented a poster entitled ‘*Intersecting Proliferation-Invasion Dichotomy with Microglial Polarization: A First Ever Experimental Finding over Post- operative Human Glioma Samples in West Bengal*’ at the *46<sup>th</sup> Annual Conference of Indian Immunology Society- IMMUNOCON 2019*”, November 14th – 16th, 2019, Bhava Atomic Research Center (BARC), Anushaktinagar, Mumbai, India.
2. Presented a poster entitled ‘*Biology of astroglial tumor: a grade oriented cytological run up study in post-operative patient samples of West Bengal*’ at the “*18<sup>th</sup> All India Congress of Cytology & Genetics (AICCG)*” venue at Indian Institute of Chemical Biology (IICB), Kolkata, India, 29-31 January 2018.
3. Presented a poster entitled ‘*In Search of Proliferation-Invasion Dichotomy: a Legislative Study over Post-operative Astroglial Tumor Tissue in Eastern India*’ at the “*EACR Sponsored Brain Tumors Meeting 2018- From Biology to Therapy*” venue at Neurobiology Center, Nencki Institute of Experimental Biology, Warsaw Poland, 21-23 June 2018.
4. Presented a poster entitled ‘ **Microglial ignition of astrocytoma fatality: a study on glioma samples**’ at the “*Annual Meeting of Indian Academy of Neurosciences (IAN) 2016*” venue at National Brain research Center (NBRC), Gurgaon, Manesar, Hariyana, India, 19-21 October 2016.
5. Presented a poster entitled ‘**Development and age oriented morphic and behavioural variations in microglia-key to innate immune response in CNS**’ at the BT-GOI sponsored “*One day international seminar themed current knowledge in cell sciences*” organized by and venue at Department of Zoology, University of Calcutta on 8 November 2015.
6. Presented a poster entitled ‘**Microglia/brain macrophage in human glioma: finding the interrelation between guard and criminal**’ in the DBT-GOI sponsored “*National seminar on molecular aspects of human diseases (MAHD 2015)*” organized by and venue at Department of Zoology, University of Calcutta on 31<sup>st</sup> January 2015.
7. Oral Presentation(On-line Platform) at DBT Welcome Trust Monsoon Brain Meet (jointly organized by NBRC, Manesar India and IIT Kanpur-BIT Pilani) entitled ‘**Inverse relationship among proliferation and invasion with microglial modulation in human glioma**’, 24<sup>th</sup> – 26<sup>th</sup> June 2020.
8. Oral Presentation (On-line Platform) at VERTCON 2020- Recent Trends in Basic and Applied Sciences, jointly organized by Bhairab Ganguly College & Dum Dum Motijheel College, Kolkata entitled ‘**Human astroglial tumors show inverse relationship among proliferation and invasion, a dichotomous relationship powered by brain microglia**’, 6<sup>th</sup> – 7<sup>th</sup> July 2020.

9. Certificate of “**International Capsule Workshop of Life in Space**”, Organized by **IARC Mumbai & NASCA, Govt. of India, February 10<sup>th</sup>, 2019**, held at **BITM, Kolkata**.

10. **Oral presentation** at the International Webinar on “An insight into the Recent Global Pandemic: Chemical and Biological Approach; organized by Department of Zoology and Department of Zoology in collaboration with IQAC, Seth Anndaram Jaipuria College, Kolkata; 11th – 12th July, 2020. **Title: A New Connection between Guillain-Barre Syndrome and COVID-19** [**Corresponding Author**]

11. **Oral presentation** at the International Webinar on “Challenges and opportunities in chemistry towards sustainable environmental developments”, Jointly organized by Department of chemistry, Bhairab Ganguly College Kolkata And CISR-National Environmental Engineering Research Institute (NEERI), Nagpur; 17-18th July 2020. **Title: Sanitization against COVID-19: a legislative future health issue?** [**Corresponding Author**]



1. Worked as *Teacher on deputation* of biological science in the *Santragachi Kedernath Institution (Higher secondary boys' school)* affiliated to West Bengal Board of Secondary Education (WBBSE) & West Bengal Council of Higher Secondary Education (WBCHSE), Government of West Bengal from **April 2011 to February 2012**.

2. Currently working as *guest lecturer at undergraduate level at Department of Zoology* at **Shri Ramakrishna Vidyamandir College**, Shri Ramakrishna Mission, Belur Math, Howrah, West Bengal from **January 2020**.



- 1) **Dr. Anirban Ghosh**, Associate professor, Department of Zoology, School of Science, Netaji Subhas Open University, DD-26, Salt Lake, Sector – I, Kolkata – 700064, West Bengal, India. Contact: +91-9830547592; Email: aghosh06@gmail.com / anirbanghosh@wbnsou.ac.in
- 2) **Dr. Pritha Bhattacharjee**, Assistant Professor, Department of Environmental Science, University of Calcutta, Kolkata, West Bengal, India. Contact: +91-9432910619; Email: 777.pritha@gmail.com
- 3) **Dr. Samarendranath Ghosh**, Professor & HOD (Retd.), Department of Neurosurgery, Bangur Institute of Neurosciences (BIN), SSKM Hospital, IPGME&R, Kolkata, West Bengal, India. Contact: +91-9830467626.
- 4) **Dr. Arindam Bhattacharyay**, Professor, Department of Zoology, University of Calcutta, Kolkata, West Bengal, India. Contact: +91-9433847283; Email: arigene@gmail.com
- 5) **Dr. Sumita Sengupta**, Assistant Professor, Department of Biophysics Molecular Biology and Bioinformatics, University of Calcutta, Kolkata, West Bengal, India. Contact: +91-9836723667; Email: bandyopas@gmail.com
- 6) **Dr. Tapas Kumar Sengupta**, Associate Professor, Department of Biological Science, Indian Institute of Science Education & Research Kolkata (IISER Kolkata), Mohanpur, Nadia, West Bengal, India. Contact: +91-9831417327; Email: senguptk@yahoo.com
- 7) **Dr. Rupa Mukhopadhyay**, Associate Professor, Department of Zoology, Bangabasi College, Kolkata, West Bengal, India. Contact: +91-9830142066
- 8) **Prof. Subrata Kumar Basu**, Associate Professor, Department of Zoology, Narsinha Dutt College, Howrah, West Bengal, India. Contact: +91-9830533273; Email: subratakr.basu2014@gmail.com
- 9) **Mr. Pranab Saran Chatterjee**, Assistant Teacher and acting teacher-in-charge (Retd.), Santragachi Kedernath Institution, Howrah, West Bengal, India. Contact: +91-9433461049 / +91-9874615522.



*I, the undersigned, in best of my knowledge, hereby vow that the aforesaid CV describes me correctly.*

*Krishnendu Ghosh*

18.07.2020

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(KRISHNENDU GHOSH)

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(DATE & PLACE)