

Dr. Sujita Datta Ghosh



A. Personal details:

- Name: Sujita Datta Ghosh
- Designation: Associate professor in Botany
- Place of Work: Recently placed in City College, Kolkata
- Address: City College, 102/1, Raja Ram Mohan Sarani Kolkata – 700009
- Residential Address: 30/10, Shib Chandra Chatterjee Street, Belur Math, Howrah – 711202
- Date of Birth: 16.09.1962
- Phone: 9233860249
- Email: sujitaghosh62@gmail.com
- Gender: Female
- Marital status: Married
- Nationality: Indian
- Religion: Hindu
- Area of specialization: Cytogenetics molecular biology and plant breeding

B. Academic Carrier:

- Secondary Examination, W.B. Board of secondary Education in 1st division with national scholarship in 1978.
- Higher Secondary Examination, W.B. Council of Higher Secondary Education in Science Stream in 1st division in 1980.
- B. Sc (Honours) in Botany from Bethune College, Kolkata, University of Calcutta (1982- part-I, 1st class and 1st division with general subjects and 1983- part – II, 1st class and 1st position in Honours with Gold Medal: Jubilee merit prize owner and Gold Medal from Indian Botanical Society)
- M. Sc Botany with specialization in cytogenetics and plant breeding with 1st class, university of Calcutta 1985.
- NET from University Grants Commission in Life Sciences, 1986.
- Ph.D (Sc) in Botany, in filed of cytogenetics; University of Calcutta, 1991.
- Name of the thesis – cytotoxicity of group IV metal in vivo & in vitro.
- Research Associateship (post-doctoral) of council of scientific and Industrial Research (CSIR) from 1992 - 1994. (study of cytotoxicity of GR IV metals on hire organism in vivo & in vitro.

C. Proficiency in Technology:

- Study of mammalian chromosomes from
- rat and mouse bone marrow cells.
- mammalian gonad cells.
- Mouse ascites tomorrow cells
- Human leucocyte culture. Study of banding patterns and sister chromatid exchanges in mammalian and human chromosomes. Study of enzyme and protein polymorphism in human blood following polyacrylamide and strach gel electrophoresis.
- Estimation of DNA in situ by fenlgen cytophotometry.
- Study of plant chromosomes in Vivo following different methods of chromosome analysis from somatid and meiotic cells.
- Screening for effects of different clastogeas and cytotoxie agents on plant and mammalian systems - in Vivo and in Vitro.
- Maintenance and subculture of mammalian cells s lines and study of chromosome.

D. Research activities:

- Assessment of metal toxicity and it's interaction in mammal chromosomes in vivo and in human leukocyte chromosomes in culture following study of mitotic index, micronuclei count, chromosome aberration and sister chromatide exchange.
- Study of metal toxicity on plant mitolie chromosome.
- Statistical analyze of data on the degree of effects following 't' test, chi-squre test, Cochran -Armitage trend test, Analysis of Variance (one, two, three wat ANOVA) - and Duncan's multiply range test etc.
- Use of molecular genetics methods using blood sample extraction for chromosomes, isolation of DNA from dry blood spots, mini plasmid DNA preparation, analysis of DNA and RNA, storage of DNA, restriction analysis, southern blotting, preparation of probe DNAS, non-radioactive labelling and dot DNAS, polymerase chain reaction and other techniques for genetic disease.

E. List of Publications Internatinal:

- Ghosh, S, Sharma A. And TalukderG.(1990) Cytotoxic effects of zirconium oxychloride on bone marrow cells of mice. Mutation Research, 243, 29-33.
- Ghosh B.B, Sengupta S, Roy A.K maity S ghosh, S Talukder G and Sharma a 1990 cytogenetic student studies in human population exposed to gas leak at Bhopal, India. environmental health perspective perspective 86, 323-326.
- Ghosh S, Sharma A. and Talukdar G. (1991) relationship of clastogenetic effects of zirconium oxychloride to does and duration of exposure in bone marrow cells of mice in vivo toxicology letters, 55, 195-201.
- Ghosh S, Talukder G. and Sharma A. (1991) cytogenic effects of exposure to zirconium oxychloride in human leucocyte culture. Toxicology in vitro 5, 295 -299.
- Ghosh S, Sharma A talukdar G.(1991) clastogenic effects of gyronium oxygen chloride on human lymphocyte chromosomes in vitro as relation to age of donors Mechanisms of ageing and development, 62, 245-254.

- Ghosh S, Sharma A and talukdar G (1992) interaction between two groups iv metals - tin and zirconium in bone marrow cells of mice.

F. Orientation & Refresher course in Botany:

- Attendance of symposia / seminar/ workshop – national and international level - about 30 upto 2022.
- Orientation program for university and college teachers, UGC sponsored academic staff College University of Calcutta,
- Refresher course in botany recent advances in teaching and research in botany UGC sponsored academic staff, College University of Calcutta.
- Refresher course in botany recent trends in plant science. UGC sponsored academic staff College University of Calcutta.
- Refresh the course in life science thrust area recent trends in life science UGC sponsored academic staff College University of Calcutta.

G. Members of Scientific Bodies:

- Members of Editioned Board of International Journal of Genetics and Cell Biology - The Nucleus Published from Centre of Advanced Study in Botany CU.
- Acting as a referee also.

H. Programme conduct:

- Arranged National level UGC Sponsored Seminar at the Department of Botany City College 2009 as a joint convenors.
- Arranged State Level Workshop on Basic Cell Biology Techniques at Department of Botany City College Kolkata 2022 as joint co-ordinators.

I. Experiences & Co-Curricular Activities:

- Preparation of posters & models.
- Enrichment of campus life Assistance in organising scientific seminar, workshop, symposia & exhibition.
- Helping in arrangement of practical room, laboratories, to take part in preparation of academic calender.
- In charge of seminar library and microscope of the laboratory.
- Student welfare and discipline Helping in listing of books in college Central library.
- Take the charge of long excursion and local excursion for both botany honors and general students.
- invigilating the college and university examinations.

Mass communications:

- Country wide classroom educational vide programme INSAT TV PROJECT, NEW DELHI - as demonstrator and programme assistant in UGC- INSAT television

programme on Environmental Mutagenesis – Is our tomorrow safe? And series on Genetics and Human welfare.

- Experience in preparing & broadcasting scientific talks on All India Radio (AIR), 1988-1994.
- Community service - Bharat scout and guide training for 6 years helping in eradication of illiteracy, flood relief etc, helping and assisting in blood donation camp organized by ECL ladies club Asansol, 2022

J. Examinarship for University of Calcutta:

- Head Examiner/Co-ordinator of theory B. Sc Botany Honours paper VI cytogenetics from 2012-2023.
- Head Examiner/Co-ordinator of practical B. Sc Botany Honours paper VIII cytogenetics 2020.
- Moderator of B. Sc Botany Honours paper VI 2011-2017-2020.
- Examinership of B. Sc Botany Honours paper VI from 2007- 2022
- Examinership of B. Sc Botany Honours paper VIII from 2007-2023
- Examinership of B. Sc Botany Honours both theory &practical paper.