

## Department of Zoology



<b>Name</b>	Sanjib Ray
<b>Designation</b>	Associate Professor
<b>Qualifications</b>	M.Sc. Ph.D.
<b>E-mail</b>	<a href="mailto:ray.sanjibray@gmail.com">ray.sanjibray@gmail.com</a> ; sray@zoo.ac.in
<b>Telephone</b>	+91 9434643512
<b>Areas of Specialization</b>	Cyto-genetics
<b>Research Interests:</b>	<ul style="list-style-type: none"> <li>• Evaluation of antiproliferative, metaphase arresting, cytogenotoxic, antitumor and apoptosis inducing potentials of phytochemicals</li> <li>• Evaluation of hypoglycemic and antioxidant potentials of phytochemicals</li> </ul>

### Research Project Implemented

<b>Funding Agency</b>	<b>Title of the Project</b>	<b>grant-in Aid (Rs.)</b>	<b>Status ( Completed with year /Ongoing with</b>
-----------------------	-----------------------------	---------------------------	---

			<b>commencing year )</b>
UGC MAJOR RESEARCH PROJECT	Isolation and characterization of active principle(s) from some traditionally used medicinal plants for evaluation of antiproliferative and metaphase arresting activities.	Rs. 12, 95, 800/-	2013

## Publications:

### LAST FIVE YEARS

- 1) Chaudhuri A & Ray S. Evaluation of phytotoxic and cytogenotoxic potentials of leaf aqueous extract of *Ampelocissus latifolia* (Roxb.) Planch. in relation to its total polyphenol content, **Int J Pharm Bio Sci 2014; 5(4): (P) 225-235,2014 [Impact factor 2.958]**
- 2) Dutta S & Ray S. Evaluation of antioxidant potentials of leaf aqueous and methanolic extracts of *Calophyllum inophyllum* in relation to total phenol and flavonoid contents. **Int J Pharm Bio Sci 2014 July; 5(3): (P) 441 – 450, 2014 [Impact factor 2.958]**
- 3) Ray S., Chatterjee S., Chakrabarti C S. Antiproliferative activity`of allelochemicals present in aqueous extract of *Synedrella nodiflora* (L.) Gaertn. in apical meristems and Wistar rat bone marrow cells. **IOSR Journal of Pharmacy; 3(2): 1-10. DOI:10.9790/3013-3220110: ANED-DDL: 05.3013/032201010,2013 [Impact factor 1.448]**
- 4) Ray S, Kundu, L M, Goswami S, Roy, GC, Chatterjee, S, Dutta S. Chaudhuri A and Chakrabarti C S. Metaphase arrest and delay in cell cycle kinetics of root apical meristems and mouse bone marrow cells treated with leaf aqueous extracts of *Clerodendrum viscosum* Vent. **Cell proliferation; 46:109-117, 2013 [Impact factor 2.521]**
- 5) Ray S, Kundu L M, Goswami S, Chakrabarti CS. Antiproliferative and apoptosis inducing activity of allelochemicals present in leaf aqueous extract of traditionally used antitumor medicinal plant, *Clerodendrum viscosum* Vent. **International Journal of Pharmacological Research and Development; 4(06): 332 – 345, 2012 [Impact factor 2.01]**

### FIVE BEST PAPERS

- 1) **Ray S** and Chatterjee A. Influence of endogenous glutathione on the induction of chromosome aberrations, delay in cell cycle kinetics and cell cycle regulator proteins in irradiated mouse bone marrow cells. **International Journal of Radiation Biology**; 83(5):347-354, 2007 [**Impact factor 2.275**]
- 2) **Ray S** and Chatterjee A. Influence of endogenous glutathione level on x-ray induced cell cycle delay in human lymphocytes. **Cell proliferation**; 39:37-47, 2006 [**Impact factor 2.521**]
- 3) Dutta A, Chakraborty A, Saha A, **Ray S** and Chatterjee A. Interaction of radiation and bleomycin-induced lesions and influence of glutathione level on the interaction. **Mutagenesis**; 20:329-335, 2005 [**Impact factor 3.183**]
- 4) Kumpawat K, Deb S, **Ray S** and Chatterjee A. Genotoxic effect of betel-nut extract in relation to endogenous glutathione level and its mechanism of action in mammalian cells. **Mutation Research**; 538: 1-12, 2003 [**Impact factor 3.175**]