

Name	:	Dr. Bimalendu B. Nath	
Designation	:	Professor & Head of the Department of Zoology	
Department/Centre	:	Department of Zoology, Center for Advanced Studies, University of Pune	
Contact No.	:	+91-20-25601436 Extn. 21 (office), 25 (lab), 79 (lab)	
Experience	:	B.Sc. (Guwahati University), M.Sc. (Visva-Bharati Central University) Ph.D. (B.H.U) Research Experience: Doctoral (1982-1988) Post Doctoral (1988-1991) Lecturer (1992-2003) Reader (2003-2009) Professor (2009--) 	
Specialization	:	Genetics, Chromosome studies, Cellular & Organismal Stress Biology	
Research interests	:	Inter-Disciplinary work on Stress-response	

Major Publications	:	1) Thorat L.J., Gaikwad S.M. and Nath B.B. (2012) Trehalose as an indicator of desiccation stress in <i>Drosophila melanogaster</i> larvae: A potential biomarker of anhydrobiosis. <i>BIOCHEMICAL & BIOPHYSICAL RESEARCH COMMUNICATIONS</i> 419:638-642 2) Nath B.B. and Babrekar A.A. (2011) Implications of hypoxic stress in <i>Chironomus ramosus</i> larvae with reference to iron. <i>In</i> : “Contemporary Chironomid Studies” Wang Xinhua & Wei Liu (editors), Nankai University Press, Tianjen, China : pp 334-345 [ISBN : 978-7-310-03714-8] 3) Datkhile K.D., R. Mukhopadhyaya, Dongre T.K. and Nath B.B. (2010) Hsp70 expression in <i>Chironomus ramosus</i> exposed to gamma radiation. <i>INTERNATIONAL JOURNAL OF RADIATION BIOLOGY</i> 87 : 213-221. 4) R. Mukhopadhyaya and B.B. Nath (2011) Chironomid midges : an emerging model organism for radiation stress studies. <i>RADIATION SCIENCE TODAY</i> 13: 5-7. 5) Datkhile K.D., Mukhopadhyaya R., Dongre T.K., Nath B.B. (2009) Increased level of superoxide dismutase (SOD) activity in larvae of <i>Chironomus ramosus</i> (Diptera ; Chironomidae) subjected to ionizing radiation. <i>COMPATATIVE BIOCHEMISTRY & PHYSIOLOGY</i> 149: 500-506.
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- 6) Datkhile K.D., Dongre T.K., Mukhopadhyaya R., **Nath B.B.** (2009) Gamma radiation tolerance of a tropical species of midge, *Chironomus ramosus* Chaudhuri (Diptera : Chironomidae) *INTERNATIONAL JOURNAL OF RADIATION BIOLOGY* 85: 1-9
- 7) Kundu S., Kulkarni G.R. & **Nath B.B.** (2007) Differential sensitivity of polytene chromosomes to Nd: YAG laser *INTERNATIONAL JOURNAL OF BIOL. & CHEM. SCIENCES* 1: 1-6
- 8) Naik D.G., Babrekar A.A. and **Nath B.B.** (2006) Pheromone-like hydrocarbon in the cuticle of aquatic *Chironomus* larva. *CHEMISTRY & ECOLOGY* 22: 501-508
- 9) **Nath B.B.**, Babrekar A.A. & Parthasarathy B. (2005) Assessment of cell viability in intact glandular tissue using dye-exclusion and colorimetric assays. *CYTOTECHNOLOGY* 49: 59-65
- 10) Babrekar, A.A., Kulkarni, G.R., **Nath B.B.** & Vidyasagar, P.B. (2004) Extracellular electrical activity from the photoreceptors of midge *JOURNAL OF BIOSCIENCES* 29:349-353.
- 11) Hardikar A.A. & **Nath B.B.** (2001) Chromosomal polymorphism is associated with nematode parasitism in natural population of tropical midge. *CHROMOSOMA* 110: 58-64.
- 12) **Nath B.B.** & Godbole N.N. (1997) Chromosomal characterization of a tropical midge. *CYTOBIOS* 91: 25-31.
- 13) **Nath B.B.** & Lakhotia S.C. (1991) Search for a *Drosophila* 93D-like locus in *Chironomus* and *Anopheles*. *CYTOBIOS* 65 : 7-13.
- 14) **Nath B.B.** & Lakhotia S.C. (1989) Heat shock response in ovarian nurse cells of *Anopheles stephensi*. *JOURNAL OF BIOSCIENCES* 14(2): 143-152.
- 15) **Nath B.B.** & Lakhotia S.C. (1989) Heat shock response and the effect of developmental stage and tissue type on heat shock protein synthesis. *GENOME* 32: 676-686.