

Curriculum Vitae

Of

Dr. Koyeli Girigoswami



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T4 Grace towers, 18 & 19 Rajan nagar,
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Education

Ph.D. in Biophysics, 2006, University of Kalyani, INDIA

M.Sc. in Biophysics, 1998, University of Kalyani, INDIA

B.Sc. in Physics, 1996, University of Calcutta, INDIA

AISSCE-93, 1993, CBSE, INDIA

AISSE-91, 1991, CBSE, INDIA

Title of the Ph.D. Thesis

Studies on response of mammalian cells after chronic exposure to cytotoxic agent

Field of Research

Mammalian cell culture, Cytotoxicity, Oxidative damage, Apoptosis, Mutation studies, Apoptotic gene expression, Synthesis of artificial amyloid lawn, Cell culture over synthesized lawn surfaces, Cytotoxicity & effect of metal ions on aggregation of Alzheimer's β -amyloid, Nanoparticle Toxicity using zebrafish model, enzymes isolated from natural sources for dissociation of amyloids, ZnO nanoflowers, nanosensors for detection of amyloids, role of ZnO nanoflower in amyloid dissociation, Nanoceria nanoclusters as ROS biosensors.

Research Experiences

- Brain Korea 21 (BK21) Postdoctoral Researcher, Advanced Biomaterial Lab, Korea Advanced Institute of Science and Technology (KAIST), **SOUTH KOREA**, 2007-2008.
- Senior Research Fellow (SRF), Department of Biochemistry and Biophysics, University of Kalyani, West Bengal, INDIA, 2002-2004.

- Junior Research Fellow (JRF), Department of Biochemistry and Biophysics, University of Kalyani, West Bengal, INDIA, 1999-2002.
- Done a 3 months course on ‘Sophisticated Instruments used in Biological and Biomedical Research’ from Bose Institute, Kolkata (this includes FACS, electron microscopy-sample preparation etc., autoradiography)

Research Guidance

Ph.D.: 02; M.Sc.: 03; B.Sc.: 01

S. No.	Name	Course/Year	Role	Project Title	Completed/ Ongoing	Outcome
1.	Sanjay Kisan Metkar	Ph.D, 2014	Guide	Studies on denaturing of Amyloid aggregates	Ongoing	3 Papers Published and 2 Patents filed
2.	Shaoli De	Ph.D, 2016	Co-Guide	Studies on Bioequivalence and Bioavailability of Nanoformulated Nutraceuticals in Lifestyle Diseases.	Ongoing	-
3.	Meenakshi V	M.Sc. Medical Bionanotechnology, 2015	Guide	Studies on Polymer-Coated Zinc Oxide Nanoparticles: UV-blocking Efficacy and in vivo Toxicity Using Zebrafish Model	Completed	1 paper published, 1 International conference papers
4.	Najim Akhtar	M.Sc. Medical Bionanotechnology, 2016	Guide	ZnO Nanoflower Platform: A Sensitive Amyloid Sensor	Completed	1 Paper published, 1 Patent filed, 2 International Conference papers (1 Best Poster Award)
5.	Ramalakshmi M	M.Sc. Medical Bionanotechnology, 2017	Guide	Potential of ZnO Nanoflowers for Insulin Amyloid Degradation	Completed	
6.	Dharshni T and Thendral V	B.Sc. Medical Bionanotechnology, 2017	Guide	Cerium oxide nanocluster based free radical sensor	Completed	

Teaching Experiences

- **Assistant Professor**, Department of Medical Bionanotechnology, Faculty of Allied Health Sciences, Chettinad Academy of Research & Education, Chettinad Health City, Kelambakkam, Chennai-603103, Tamilnadu, INDIA, from November 2013-present.
- **Assistant Professor** (Biophysics), All India Institute of Hygiene & Public Health, **Govt. of India**, Kolkata, INDIA, from September 2008-2013.
- **Guest Lecturer** (PG), Lady Brabourne College, Kolkata, from August 2012- 2013.
- **Guest Lecturer**, Prasanta Chandra Mahalanabis Mahavidyalaya (UG), from 2011- 2013.
- **Guest Lecturer**, DumDum Motijheel College (UG), Dum Dum from Sept 2010 – 2011.
- **Lecturer**, RKVM Sarada Ma Girls' College (PG&UG), Barasat, Kolkata, 2010-2011.

Academic & Administrative Activities

- **Peer Reviewer** in International Journals like Journal of Nanoparticles Research (Springer), Macromolecular Symposia (Wiley) and Materials Science and Engineering C (Elsevier)
- **NSS Programme Officer** at CARE, CHRI from May 2014 till present.
- Participant in the Regional Conference on “Life Skills and Adolescent Development” organized by IALSE in collaboration with **UNICEF**, Chennai Region during 6-7th April, 2015 at Loyola College, Chennai.
- **Resource person** at DBT Star Faculty Improvement Programme on “Recombinant DNA Technology and Bioinformatics” organized by Department of Microbiology, Lady Brabourne College, Govt. of West Bengal, Kolkata, India.
- **Course Coordinator**, B.Sc. Medical Bionanotechnology, Chettinad Academy of Research and Education (2014-present).
- **Paper setter** and **examiner** at Chettinad Academy of Research and Education, Chennai (2014- present).
- **Paper setter** and **examiner** in Biochemistry, West Bengal State University, Kolkata (2011-2013).

- **Member, Board of Studies (Postgraduate)**, Chettinad Academy of Research and Education, Chennai (2016- present).
- **Member, Board of Postgraduate Studies**, Sarada Ma Girls' College, West Bengal (2010-2012).
- **Member, American Chemical Society** from 2016-2017.

Awards

- University Research Scholarship (Junior) (1999-2002) by UGC, University of Kalyani, West Bengal, **INDIA**.
- University Research Scholarship (Senior) (2002-2004) by UGC, University of Kalyani, West Bengal, **INDIA**.
- BK21 (Brain Korea 21) Postdoctoral Fellowship, 2007, Ministry of Education, **SOUTH KOREA**.

Invited Lecture/Resource person

- Koyeli Girigoswami, Studies on Response of Mammalian Cells after Chronic Exposure to Cytotoxic Agent, organized by Prof. Seong Hun Kim at Seoul National University, SOUTH KOREA on 27.02.2007 (invited lecture).
- Koyeli Girigoswami, Biomedical applications of optical in vivo imaging, at Workshop on 'Clinical Applications of Optical in vivo Imaging' held at Translational Research Platform for Veterinary Biologicals, TANUVAS, Chennai on 24.11.2016 (resource person).

Workshops/Conferences Organized

1. Organizer of Two day National Workshop in Molecular and Cellular Diagnostics, 10-11 Feb, 2017 at CHRI along with HiMedia.
2. Organizer of Workshop on Nanotechnology for Dental Applications, 11-12th April, 2017 at CHRI.

Patent: 01

1. Chan Beum Park, Sook Hee Ku, Koyeli Girigoswami, and Jungki Ryu. Method for screening drug for neurodegenerative diseases treatment. Korean Patent: Appl. No. 10-2007-0112804 (2007. 11. 06) Patent No. 10-1082484-0000 (2011. 11. 02)

Patents under Process-04

1. Sanjay K Metkar, **Koyeli Girigoswami**, Ramachandran Murugesan and Agnishwar Girigoswami, Denaturation of Amyloids by Lumbrokinase, submitted to Patent Office, Chennai on 09.10.2015, Ref. No. 5412/CHE/2015. Patent published on 14.4.2017 in The Patent Office Journal, India, 10756.
2. Sanjay K Metkar, **Koyeli Girigoswami**, Ramachandran Murugesan and Agnishwar Girigoswami, Degradation Process of Amyloid Fibrils by Serratiopeptidase, submitted to Patent Office, Chennai on 09.10.2015, Ref. No. 5415/CHE/2015. . Patent published on 30.6.2017 in The Patent Office Journal, India, 22220.
3. **Koyeli Girigoswami**, Agnishwar Girigoswami, Ramachandran Murugesan and Najim Akhtar, Sensor For Amyloid Detection Based On ZnO Nanoflower Platform, submitted to Patent Office, Chennai on 11.01.2017, Appl. No. 201741001092.
4. Agnishwar Girigoswami, Haribabu V, **Koyeli Girigoswami**, Sharmila P, Label-free biocompatible magnetofluorescent nanoclusters for multimodal imaging, submitted to Patent Office, Chennai on 11.01.2017, Appl. No. 201741001085.

Publications

h-index: 8; i10-index: 7; citations: 201

1. R. Deepika, **K. Girigoswami**, R. Murugesan, Agnishwar Girigoswami, Influence of Divalent Cation on Morphology and Drug Delivery Efficiency of Mixed Polymer Nanoparticles, **Current Drug Delivery**, 2017 (*in press*).
2. Akhtar N, Metkar S.K., Girigoswami A & **Girigoswami K.** (2017), ZnO nanoflower based sensitive nano-biosensor for amyloid detection. **Mater. Sci. Eng. C.**, 78:960-968. ISSN: 09284931 [**I.F.= 4.164**]
3. Metkar S.K., Girigoswami A., Murugesan R. & **Girigoswami K.** (2017), Lumbrokinase for degradation and reduction of amyloid fibrils associated with amyloidosis. **J. Appl. Biomed.**, 15:96-104. [**I.F.= 1.509**]
4. Metkar S.K., Girigoswami A., Murugesan R. & **Girigoswami K.** (2017), *In vitro* and *in vivo* insulin amyloid degradation mediated by Serratiopeptidase, **Mater. Sci. Eng. C.**, 70:728-735. ISSN: 09284931 [**I.F.= 4.164**]

5. **Girigoswami K.** and Metkar S. K. (2015), Magnetic Nanoparticles Synthesized with Different Precursor Stoichiometry Induced Differential Toxicity in Multiple Cell Lines; **Int. J. Sci. Res.**, 4(11): 2052-2057. ISSN: 2319-7064.
6. **Girigoswami K.**, Meenakshi V., Murugesan R. & Girigoswami A. (2015); Studies on Polymer-Coated Zinc Oxide Nanoparticles: UV-blocking Efficacy and in vivo Toxicity; **Mater. Sci. Eng. C.**, 56: 501-510. ISSN: 09284931 [**I.F.= 4.164**]
7. Ghosh R., **Girigoswami K.** & Guha D. (2013); Caspase Dependent Apoptosis is Only Inhibited on γ Irradiation of Cells Conditioned by Repetitive Oxidative Stress, **Int. J. Sci. Res.**, 2: 12-18. ISSN: 2319-7064.
8. Kavya J.C., Amsaveni G., Nagalakshmi M., **Girigoswami K.**, Murugesan R., Girigoswami A (2013), Silver Nanoparticles Induced Lowering of *Bcl₂ / Bax* Causes DLA Tumour Cell Death in Mice, **J Bionanosci.**, 7, 276-281. ISSN: 1557-7910.
9. Ghosh R., **Girigoswami K.** & Guha D. (2012); Suppression of apoptosis leads to cisplatin resistance in V79 cells subjected to chronic oxidative stress; **Ind. J Biochem. Biophys.**, 49: 363-370. [**I.F.** (2012)= **1.142**] ISSN:0975- 0959 (Online); 0301-1208 (Print)
10. Ghosh R. & **Girigoswami K.** (2011). Some spectrofluorimetric studies with intact cells exposed repetitively to low doses of oxidative stress: Proceedings of UGC Sponsored National Seminar on Modern trends in Spectroscopy: Its Application in Chemistry and Biology 2011, (Eds S. Bhattacharya & D.C.Guria), published by **Maulana Azad College**, Kolkata, W.B., INDIA, pp. 144-152. ISBN-13-978-81-928246-1-1.
11. **Girigoswami K.**, Ku S.K., Ryu J. & Park C.B. (2008); A synthetic amyloid lawn system for high-throughput analysis of amyloid toxicity and drug screening; **Biomaterials**, 29: 2813-2819. [**I.F.** (2009)=**8.153**] ISSN: 0142-9612
12. Ryu J., **Girigoswami K.**, Ha C. Ku S.K. & Park C.B. (2008); Influence of multiple metal ions on β -amyloid aggregation and dissociation on a solid surface; **Biochemistry**, 47: 5328-5335. [**I.F.** (2009)=**3.226**] ISSN:0006-2960 (print);1520-4995 (web).
13. Kanapathipillai M., Ku S.K., **Girigoswami K.** & Park C.B. (2008); Small stress molecules inhibit aggregation and neurotoxicity of prion peptide 106-126; **Biochem. Biophys. Res. Commun.**, 365: 808-813. [**I.F.** (2009)=**2.72**] ISSN: 0006-291X
14. Ghosh R. & **Girigoswami K.** (2008); NADH dehydrogenase subunits are overexpressed in cells exposed repeatedly to H₂O₂; **Mutat. Res.**, 638: 210-215. [**I.F.** (2009)=**3.764**] ISSN: 0027-5107
15. **Bose (Girigoswami) K.** & Ghosh R. (2005); Response to γ -irradiation in V79 cells conditioned by repeated treatment with low doses of hydrogen peroxide; **Radiat.**

Environ. Bioph., 44: 131- 137. [I.F. (2006) =1.776. ISSN: 0301-634X (print version)ISSN: 1432-2099 (electronic version)

16. **Bose (Girigoswami) K.**, Bhaumik G. & Ghosh R. (2005); Induced resistance in cells exposed to repeated low doses of H₂O₂ involves enhanced activity of antioxidant enzymes; **Cell Biol. Int.**, 29: 761-767. [I.F. (2006) =1.619] ISSN: 1065-6995
17. **Bose (Girigoswami) K.**, Bhaumik G. & Ghosh R. (2003); Chronic low dose exposure to hydrogen peroxide changes sensitivity of V79 cells to different damaging agents; **Ind. J Exp. Biol.**, 41: 832-836. [I.F.= 0.55] ISSN: 0975-1009 (Online); 0019-5189 (Print)
18. **Bose (Girigoswami) K.**, Bhaumik G. & Ghosh R. (2002); Low dose chronic exposure to oxidative stress changes sensitivity of V79 cells to different damaging agents by inhibiting apoptosis, in Proceedings of National Seminar on Recent Advances in Molecular Physiology, (Eds. N. Saha et al), published at **Kalyani University Press**, Kalyani, pp.144-150.

Book Chapter

1. **Bose (Girigoswami) K.**, Bhaumik G. & Ghosh R. (2003); Chronic low doses of H₂O₂ affect sensitivity of mammalian cells to different damaging agents through changes in their antioxidant enzyme status; in Recent Environmental Changes- Its Impact on Health, Agriculture and Ecosystem, (Ed. S.C Santra), **published by World View**, Kolkata on behalf of University of Kalyani, W.B., India, pp.201-210.

Conference Presentations

Total: 35 (23 International and 12 National)

1. Sanjay Kisan Metkar and **Koyeli Girigoswami**, Insulin amyloid dissociation by Serratiopeptidase both *in vitro* and *in vivo*, National Seminar on Advanced Biomaterials and Applications, 15 th Feb 2017 held at Hindustan University, Padur, Chennai, India.
2. Guru Priya R. and **Koyeli Girigoswami**, Multiple uses of Silver Nanoparticles synthesized from *Ipomoea carnea*, International Conference on Environment and Health in Changing Climate- ICEHCC 2016, 14-16th September, 2016 held at Bharathidasan University, Thiruchirapalli, Tamilnadu, INDIA.
3. Najim Akhtar and **Koyeli Girigoswami**, Detection of Amyloid through ZnO nanoflower based platform, International Conference on on 'Modern Diagnostic Tools in Health Sciences', 22-23rd August, 2016 held at Dr. MGR Janaki College of Arts and Science for Women, Chennai, INDIA(1st Prize- Dr. MGR Centenary Award)

4. Sanjay K Metkar and **Koyeli Girigoswami**, Lumbrokinase Extracted from Earthworm Degrades Insulin Amyloid *in vitro* and *in vivo*, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
4. Shaoli De, **Koyeli Girigoswami** and Agnishwar Girigoswami, Nutraceuticals for Lifestyle Diseases, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
5. S.Antinate Shilpa, M.Prabavath, and **Koyeli Girigoswami**, Nanocellulose Extracted from Bioresidues used for Drug Deliver, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
6. Bhavana Murjani, Yashna Chabria, Devender, **Koyeli Girigoswami**, Therapeutic uses of hawthorn (*Crataegus Oxycantha*), International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
7. Elakkiya.K, Harini.S, Sanjeev Kumar.R, **Koyeli Girigoswami**, Multifunctional therapeutic effects of Jadwar (*Delphinium denudatum*), International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
8. Dharshni T, Thendral V, Sanjayan C.G. and **Koyeli Girigoswami**, Aloe vera: nature's compliment for multiple impacts on health, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
9. Selvajothi A, Sivakami M and **Koyeli Girigoswami**, Versatile Uses of Carica Papaya as Drug, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
10. Sai Nievethitha S, Poornima R, **Koyeli Girigoswami**, Silk Fibroin for Nerve Tissue Engineering, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
11. Monisha G, Arya K and **Koyeli Girigoswami**, Triphala and its Advantages, International Conference on Applications of Natural Products and Opportunities Ahead, 2-3 August **2016**, held B.S. Abdur Rahman University, Chennai, INDIA.
12. Sanjay K Metkar, **Koyeli Girigoswami**, Ramachandran Murugesan and Agnishwar Girigoswami, Insulin Amyloid Degradation *in vitro* and *in vivo* by Lumbrokinase, Avidadham'16-International Conference on Recent Advances in Diagnosis and Treatment of Metabolic Disorders, 18-19 March **2016**, held at Anna University, Chennai, INDIA.
13. Najim Akhtar, Sanjay K Metkar, Agnishwar Girigoswami and **Koyeli Girigoswami**, ZnO Nanoflower Platform: A Sensitive Amyloid Sensor, Avidadham'16-International Conference on Recent Advances in Diagnosis and Treatment of Metabolic Disorders, 18-19 March **2016**, held at Anna University, Chennai, INDIA.

14. **Koveli Girigoswami**, UV-blocking Efficacy and in vivo Toxicity of Polymer Coated Zinc Oxide Nanoparticles in Zebrafish Embryo, One Day International Seminar on Frontiers in Translational and Regenerative Biology, 31 January **2016**, held at Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, West Bengal, INDIA.
15. Sanjay K Metkar, **Koveli Girigoswami**, Ramachandran Murugesan and Agnishwar Girigoswami. Dissociation of Insulin Amyloid in vitro and in vivo by Lumbrokinase, One Day International Seminar on Frontiers in Translational and Regenerative Biology, 31 January **2016**, held at Centre for Research in Nanoscience and Nanotechnology, University of Calcutta, West Bengal, INDIA.
16. **Koveli Girigoswami**. A High Throughput Screening System of Potential Drug Candidates for Alzheimer's Disease, National Conference on Application of Rapid Prototyping Techniques in Biomaterials (ARTBM'15), 19-20 March **2015**, held at Karpaga Vinayaka College of Engineering and Technology, Kancheepuram, Tamilnadu, INDIA.
17. **Koveli Girigoswami**. Differential effect of multiple metal ions on beta amyloid aggregation and dissociation over a solid surface, International Conference on Recent Discoveries of Diabetic Biomarkers and Challenges Ahead, 2-3 March **2015**, held at School of Life Sciences, B.S. Abdur Rahman University, Chennai, Tamilnadu, INDIA. (Best oral presentation)
18. **Koveli Girigoswami** and Agnishwar Girigoswami. The aggregation and neurotoxicity of prion peptide 106-126 is inhibited by small stress molecules (SSMs), DBT Sponsored National Conference on Bioactive Peptides-Application in Veterinary, Medical and Food Science (NBAP-TANUVAS-2014), 18-19 December **2014**, held at Department of Biotechnology, Madras Veterinary College, Madras, Tamilnadu, INDIA. (Best Poster Award)
19. Rita Ghosh, **Koveli Girigoswami** and Dipanjan Guha. Suppression of apoptosis leads to cisplatin resistance in cells subjected to chronic oxidative stress, International Conference on Free Radicals, Antioxidants and Nutraceuticals in Health, Disease and Radiation Biology & SFRR- India Meeting, 11-12 Jan **2012**, held at College of Medicine & JNM Hospital, WBUHS, Kalyani, INDIA.
20. Rita Ghosh and **Koveli Girigoswami**. Some spectrofluorimetric studies with intact cells exposed repetitively to low doses of oxidative stress: UGC Sponsored National Seminar on Modern trends in Spectroscopy: Its Application in Chemistry and Biology 2011, 3-4 Feb **2011**, held at Indian Association for Cultivation of Science, Jadavpur, Kolkata, INDIA
21. **Girigoswami K** and Ghosh R. NADH dehydrogenase subunits are over-expressed in cells exposed repeatedly to H₂O₂: National Symposium on Trends in Cellular Biochemistry and Biophysics on the occasion of Golden Jubilee Celebration of University of Kalyani, Organized by Dept. of Biochem. & Biophys., KU. Sept 5-6, **2010**. Kalyani, India.
22. **Girigoswami K**, Ku SK, Ryu J and Park CB; Template directed amyloid lawn system for high throughput analysis of amyloid toxicity. UGC Sponsored State Level Seminar on 'Playing God: Expanding Frontiers of Biotechnology.' 2009, 6-7 Nov **2009**, held at Gurudas College, Narkeldanga, Kolkata, INDIA.
23. Ku SK, Kanapathipillai M, **Girigoswami K** & Park CB; Mad Cow disease's prion peptide aggregation and neurotoxicity suppressed by extremolytes, The Korean Society for Applied

- Biological Chemistry (KSABC) Conference 2008, May **2008** Held at KSABC, **South Korea**, pp.127.
24. Rhu J, **Girigoswami K**, Ha C, Ku SK & Park CB; Influence of Multiple Metal ions on β -Amyloid Aggregation and Dissociation on a Solid Surface, 2008 Spring KSBB Meeting and International Symposium, April **2008** Held at **Chonbuk National University, South Korea**, pp.149.
 25. Ku SK, Kanapathipillai M, **Girigoswami K** & Park CB; Inhibition of aggregation and neurotoxicity of PrP 106-126 by small stress molecules, 2007 KSBB Fall Meeting and International Symposium, Oct **2007** Held at **Dae-gu, South Korea**, pp.237.
 26. Kanapathipillai M, Ku SK, **Girigoswami K** & Park CB; Inhibitory effect of small stress molecules on aggregation and neurotoxicity of Prion peptide 106-126, 2007 Korean Institute of Chemical Engineering (KICChE) Fall Meeting, October **2007**, Held at **KAIST, Daejeon, South Korea**, pp. 163.
 27. Ghosh R, **Bose Girigoswami K** & Bhoumik S; Effect of cisplatin on V79 cells conditioned by repeated treatment with low doses of hydrogen peroxide, National Symposium on 21st Century in Biochemistry & Biophysics, Feb **2007** Held at **University of Kalyani, W.B., India**, pp. 30.
 28. **Bose (Girigoswami) K** & Ghosh R; Response to cisplatin in V79 cells conditioned by repeated treatment with low doses of hydrogen peroxide, 13th West Bengal State Science & Technology Congress, Feb **2006** Held at **University of Calcutta, Kolkata, India**. pp.19.
 29. **Bose (Girigoswami) K** & Ghosh R; Chronic low dose exposure to hydrogen peroxide altered response to gamma rays in V79 cells, International Symposium on Environmental Mutagenesis and Public Health and XXXI Annual Conference of EMSI-2006, Feb **2006** held at **Indian Council of Medical Research, Hyderabad, India**, pp.75.
 30. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Chronic low doses of H₂O₂ affect sensitivity of mammalian cells to different damaging agents through changes in their antioxidant enzyme status, National Conference on Recent Environmental Changes- Its Impact on Health, Agriculture and Ecosystem, Aug **2003** held at **University of Kalyani, W.B., India**, pp.47.
 31. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Cells derived from V79 cell line after chronic low dose exposure to hydrogen peroxide show marked changes in antioxidant enzyme levels, Symposium on Environmental Genomics and Health Sciences and XXVII Annual Conference of EMSI-2002, March **2002** held at **Industrial Toxicology Research Centre, Lucknow, India**, pp.104.
 32. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Low dose chronic exposure to oxidative stress changes sensitivity of V79 cells to different damaging agents by inhibiting apoptosis, National Seminar on Recent Advances in Molecular Physiology, Feb **2002** held at **University of Kalyani, W.B., India**, pp.43-44.
 33. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Repeated low dose exposure to hydrogen peroxide inhibits apoptosis in Chinese hamster V79 cells, International Symposium on Environmental Health Sciences in the 21st Century and XXVI EMSI Annual Conference, March **2001** held at **JNU, New Delhi, India**, pp.6.

34. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Chronic exposure to low doses of oxidative damage influences the sensitivity of V79 cells to different damaging agents, Symposium on Trends in Cellular and Molecular Biophysics, Sept **2000** held at **Saha Institute of Nuclear Physics, Kolkata, India**, pp.49.
35. **Bose (Girigoswami) K**, Bhaumik G & Ghosh R; Chronic exposure to low dose of hydrogen peroxide changes the sensitivity of V79 cells to different damaging agents, 7TH International Conference on Mechanisms of Antimutagenesis and Anticarcinogenesis, Sept **2000** held at **Michigan, USA**.