BIO-DATA

NAME: DR.ARUP KUMAR MITRA

FATHER'S NAME: Late Dr.Arun Kumar Mitra.

ADDRESS

A. **REIDENCE:** 62B Alipore Road, Kolkata 700 027. Tel.91-33-2479-5169

E-mail: drakmitra01@rediffmail.com, drakmitra01@sxccal.edu. Mobile: 098310 41051 COLLEGE: St.Xavier's College, 30 Park Street, Kolkata 700 016. Tel.: 91-33-22551276. DATE OF BIRTH: 29th March 1966.

EDUCATIONAL QUALIFICATIONS:

SECONDARY: From South Point High School in 1981 in 1st Division.

H.S. : From Birla College of Science and Education in 1983 in 2nd Division.

B.Sc (Part I): From Scottish Church College in 1985 with 1Q.

B.Sc (PartII): From the same college (C.U) with Botany (Hons.) in 1986 in 1st Class.

M.Sc. : From University of Calcutta in Botany with special paper Mycology And Plant Pathology in 1988, in1st Class (IV).

Ph.D: Awarded from University of Calcutta in April 1995 under Prof.R. P. PurkayasthaPh.D (Lond), FNASC.F.A.A.S.F.N.A. Title of thesis: Studies on the uptake of heavy metal pollutants and Its effect on their growth, productivity and mammalian system.

DIPLOMA: Environmental monitoring and Assessment from South Bank University, London.U.K. in 1997.

PROFESSIONAL QUALIFICATIONS:

- Passed German language course G I from Max Muller Bhavan, Kolkata in 1987.
- Passed 2 certificate courses in computer applications from L.C.C, Kolkata in 1992.
- Passed GATE examination (IIT) in 1991.
- Passed NET examination for UGC lectureship in Dec.90 and UGC fellowship in June 1991 conducted by CSIR-UGC.

- Participated in the Orientation programme for innovative teaching in Serampore College in 1995, sponsored by AIACHE.
- Participated in the Natl.Level workshop on Environmental pollution management at J.U. in 1997.
- Attended a UGC sponsored refresher course on Mathematics of Biomolecules at Sivatosh Mookerjee Science Centre, Kolkata between Dec.1998 to Jan.1999.
- Participated in a Natl. level workshop on Bio informatics and its applications in the Biotechnology Department of IIT Kharagpur in March 2000.
- Participated in 2 UGC sponsored seminars on environmental education at college level in Sept 2000 and Feb.2001.
- Completed a 4-month training programme on computer applications at St.Xavier's Computer Center in 2000.
- Attended a Natl. Symposium on Tropical Mycology at Calcutta University in Feb.2001.
- Attended a UGC sponsored orientation programme between July 2001 and August 2001. Organized by Academic Staff College, University of Calcutta.
- Attended a UGC sponsored refresher course on Environmental Studies between Oct.2002 and Nov.2002. at University of Calcutta.
- Attended a professional development programme for tertiary level teachers at Bangalore in May 2004 organised by All India Institute for Human Resource Development.
- Completed a training programme on Stem Cell Culture from Reliance Life Sciences, Navi Mumbai in Feb.2006.
- Completed a 6-month certificate programme in entrepreneurship teaching from ISB, Hyderabad in 2007.

AWARDS:

- Recipient of P.R.Das Memorial Medal and Book prize from Scottish Church College and the National Merit Scholarship from Govt.of India in 1986 for B.Sc. (Hons.) results.
- Recipient of best paper award in Mycology section of the21st conference of Indian Botanical Society at Ujjain in 1998.
- Received the Rotary International Citation for outstanding contributions towards community service in 2004 as President of Rotary Club of Calcutta South West.
- Recipient of special certificate on best e content on Cultivation of edible mushroom on behalf of EMMRC, St. Xavier's College, Kolkata in the annual competition, 2015-16 from UGC-CEC, MHRD, Govt. of India.

PhD Guide:

Six students are presently registered for their PhD degree in the Department of Marine Science and Botany, University of Calcutta and Department of Microbiology, St. Xavier's College.

EXPERIENCE:

- Assisted the Professor-in charge in conducting practical classes in Botany, C.U. for 4 yrs.
- Joined St. Xavier's College in October 1994, presently working as Associate Professor & Head, Post Graduate Dept. of Microbiology
- Experienced in counseling students at St. Xavier's College.
- Conducted two 4-month training programmes in Ecology and Environmental Studies for I.S.C school teachers.
- Served as resource person on student counseling in the Orientation programme of University of Calcutta.(2001-2003)
- Served as a Guest lecturer in Environmental Management at I.M.T. (Gaziabad) Kolkata branch between 2002and 2009.
- Worked as a consultant for Rasoi Vanaspaties Limited in 2004.
- Organized a two day National Seminar on Pollution in Urban Industrial Environment in collaboration with Institute of Ecotoxicology and Environmental Sciences in December,2005
- Acted as a resource person in the preparation of electronic study material for Environmental Sciences for engineering student under West Bengal University of Technology in 2006.
- Acted as a resource person for ICFAI Resource Centre between 2006-2008.
- Organized a National Seminar on Environmental Pollution of the Biosphere and its management in collaboration with ICFAI University and Government of West Bengal in June, 2008.
- Served as a consultant for M/s Chemico process Pvt.Ltd and Calcutta Laminating industries from 2009 onwards.
- Serving as the co-coordinator Entrepreneurship Development Cell, St.Xavier's College since 2009.
- Participated in a two day training program in Environment Leadership development organized by the Science Association of Bengal in June, 2009.
- Participated in the 2nd International Conference on Ecotoxicology and Environmental Sciences, organized by Institute of Ecotoxicology and Environmental Sciences during December 14-16, 2009.
- Participated in UGC sponsored National Symposium entitled Recent Trends in Microbiological Research, organized by Barrackpore Rastraguru Surendranath College on February, 13th and 14th, 2010.
- Started the Post Graduate Department of Microbiology since August, 2010.
- Participated in a symposium entitled Challenges of teaching Microbiology in Undergraduate Colleges organized by Centre for Modern Biology, University of Calcutta on September 25, 2010.
- Participated in the Fourth International Conference on Plants and Environmental Pollution organized by NBRI, Lucknow in December8-11, 2010.

- Served as a resource person in a seminar entitled Journey of Microbiology: Evolution to its modern age application, organized byTDHCK Jalan College on 22nd January, 2011.
- Participated in UGC sponsored National Seminar entitled Advances in Environmental Science and Technology organized by Vivekananda College in February 5th and 6th, 2011.
- Reviewer in Saudi Journal of Biological Sciences (<u>mmyaseen@ksu.edu.sa</u>) <u>elseviersciences</u> in 2010.
- Elected as a member of the Environment Science Committee of ISCA in 2011-12.
- Selected as a mentor in the DST INSPIRE program from 2011.
- Participated in a UGC sponsored seminar entitled Present scenario and future prospects of Microbiology and Plant Biotechnology at Ashutosh College, Kolkata on 9th and 10th March, 2011.
- Organized the "St Xavier's Global Earth Summit, An International Conference on A Sustainable Earth, Nihil Ultra" on March 11th and 12th, 2011 at St.Xavier's College, Kolkata.
- Participated in a UGC sponsored National Level Seminar, entitled Microbiology, Development and Challenges in Basic and Applied Research at Belur Ramakrishna Mission Vidyamandira in collaboration with Bose Institute, Kolkata on 6th and 7th April, 2011.
- Participated and presented a paper inUGC sponsored National Seminar on Organic Agriculture and Bio-safety, organized by Gurudas College in collaboration with Bidhan Chandra Krishi Viswa vidyalaya, Kalyani on Nov.18th,2011.
- Participated and presented a paper in 3rd International conference on Ecotoxicology and Environmental Sciences, Goa on Nov.28th-30th, 2011.
- Participated in National Symposium on Plant diversity and resources: evolution, analyses, stress and challenges and paleophytodiversity:its: its aspects and prospects. Organized by Botanical Society of Bengal in collaboration with Department of Botany and CAS in Botany, University of Calcutta on Dec.20th-22nd,2011
- Organized the "Second St Xavier's Global Earth Summit, An International Conference on "The Environmental Migrant-The Human face of climate change" on March 29th and 30th, 2012 at St.Xavier's College, Kolkata.
- Delivered a lecture as an invited speaker in the Environmental Science section of the 99th section of the Indian Science Congress Association at Bhubaneswar in 2012.
- Editing the College Research Journal "Aviskaar-A Xaverian Journal of Science" (ISSN No. 2277 8411) since 2009, till date.

- Delivered a lecture as an invited speaker in the Environmental Science section of the 101st section of the Indian Science Congress Association at Jammu in 2014.
- Acted as a key note speaker in the International Seminar on Sustainability in Gaedu College of Business Studies, Royal University of Bhutan in 2014.
- Acted as a resource Person in the Refresher Course on Environmental Science at Academic Staff College, Ranchi University in 2014.
- Delivered a lecture as an invited speaker in the Environmental Science section of the 102nd section of the Indian Science Congress Association at Mumbai in 2015.
- Delivered a Plenary Lead lecture in the National Symposium organized jointly by the Department of Botany, Ranchi University and Indian Phytopathological Society at Ranchi in January, 2015.
- Acted as a resource person and coordinator of a UGC lecture series program on the UGC model syllabus on Microbiology for the UGC Educational channel made by the EMMRC, St. Xavier's College between 2012 and 2015.
- Delivered an invited lecture on Bio-entrepreneurship in the International Seminar entitled "Relooking at Nations: Reenergizing and Reforming Strategies for Sustainable Development" organized Gaeddu College of Business Studies, Bhutan, Institute of Management Studies, Kolkata and The Institute of Cost Accountants of India on August 18 and 19, 2015.
- Delivered an invited talk entitled 'Characterization of novel bacterium causing degradation of complex organic substrate' in the 39th All India Conference of the Indian Botanical Society, held in Ranchi University between October 21 and 23, 2016.
- Delivered an invited talk in the UGC sponsored National level conference on 'Conservation, cultivation, diseases and therapeutic importance of medicinal and aromatic plants' entitled "Antifungal activity.....fungi *Mycovellosiella*" organized by TNB college and Bhagalpur University on November 21 and 23, 2016 at Bhagalpur.
- Delivered an invited talk in the DBT sponsored National level conference on 'Airborne Bioaerosols: Impact on Human Health and agriculture' entitled " Interaction of airborne.....Disease Development" organized by Indian Aerobiological Society and Bose Institute on December 9th to11th, 2016 at Bose institute, Kolkata.
- Delivered a lecture entitled Plant fungi interaction..... from contaminated site as an invited speaker in the Environmental Science section of the 104th session of the Indian Science Congress Association at S.V. University, Tirupati in January, 2017.
- Delivered an invited talk in the UGC sponsored National level seminar on 'Biotechnology: A remedy for Ecorestoration' entitled "Industrial effluent as a repository for bio-remediating bacteria" organized by the PG.Dept.of Zoology, Raja N.L.Khan Women's College and SBSS Mahavidyalaya, Paschim Medinipur, West Bengal on January 18th and 19th, 2017.

- Chaired a technical session in the National Seminar on Plant and Microbial Resources: Utilization and Conservation held at Visva Bharati University on March 15-16, 2017.
- Delivered an invited talk entitled "Microbial degradation of common industrial dye" and chaired a technical session in a national seminar entitled "National conference on progresses in bioengineering and environmental management"(NCEPBM) organized by Techno University, Kolkata on April 20th and 21st, 2017.
- Selected as a Resource Faculty by MHRD in the SAYAM program to deliver an e course on Introductory Microbiology through the SAYAM portal in September to November, 2017.
- Chaired a session on Microbial Biotechnology, in an international seminar entitled BIOSPECTRUM organized by University of Engineering and Management on 25th August, 2017.
- Delivered a lecture on Mushroom as Nutraceuticals in Mushroom Cultivation Workshop in Scottish Church College during Feb.2018.
- Selected as a Resource Faculty by MHRD in the SAYAM program to deliver an e course on Medical Microbiology through the SAYAM portal in March to May, 2018.
- Serving as Assistant Controller of Examinations since April, 2018, St. Xavier's College (Autonomous) under University of Calcutta

PROJECTS:

- 1. Studies on Substrate... Polluted Mushroom, 1994-95, CSIR, Rs. 1, 00,000/-, completed.
- 2. Cultivation and Popularization...Edible Mushroom, 2003-04, UGC, Rs. 50,000/-, completed.
- 3. Metal Interaction, Disease Development... Control, 2006-08, UGC, Rs. 95,000/-, completed.
- 4. Skill set Training in Advanced Lab. Technology and other Fields of Science and Technology,2007-09, DST NIMAT,Rs. 4,91,000/-,completed.
- 5. Disease Development in Leafy Vegetable and its Control (as a Co-Investigator), 2009-10, UGC, Rs. 1, 00,000/-, completed.
- 6. Impact of Sponge Iron Effluents... Statistical Modeling, 2011-2013, UGC, Rs. 1, 32,000/-, Running.
- 7. EDI Grant (For running EAC) Rs 54,000/-
- 8. Skill set training in Science and Technology Grant. DST, Rs.5, 00,000/- DST. 2011-2013.
- 9. DBT star college grant for interdisciplinary research and project Rs.36 Lakhs 2015-2018.
- 10. WBDST sponsored project on 2017, on plant microbe interaction on arsenic remediation (No.794 (Sanc.)ST/P/S&T/1G-7/2015), Rs.19 lakh six thousand.

MEMBERSHIP & FELLOWSHIP:

- Member and Past President Rotary Club of Calcutta South West, R.I.District 3290 since 1994.
- Life Member Indian Science Congress Association since 1992.
- Life Member Indian Mycological Society since 1993.
- Life Member National Botanical Society since 1994.
- Life Member Indian Mushroom Society since 1995.
- Life Member Indian Botanical Society since 1996.
- Life Member International Society for conservation of Nature since 1998.
- Fellow of the INDIAN BOTANICAL SOCIETY (F.B.S) since 1998.
- Fellow of the INTERNATIONAL SOCIETY FOR CONSERVATION OF NATURE (F.N.R.S) since 2000.
- Fellow of the Society of Applied Biotechnology, Mangalore, Karnataka University (FSAB) since 2011.

Consultant:

- 1. Rasoi Vanaspatis Ltd.
- 2. Chemico Process Ltd.
- 3. Analytics India Ltd.
- 4. Organic Agro India Ltd.

PAPERS PRESENTED IN SEMINARS (ABSTRACTS PUBLISHED):

- 1. A.K.Mitra and R.P.Purkayastha (1993) Impact of heavy metal toxicity on edible mushroom. Proc. 80th session of ISCA, Goa.
- 2. A.K.Mitra and R.P.Purkayastha (1994) pH dependent Cd uptake by edible fungi under submerged growth. Proc. 81st session ISCA, Jaipur.
- 3. A.K.Mitra and R.P.Purkayastha (1995) Uptake and toxicity of metal contaminated edible mushrooms after oral administration to albino rats. Proc. 82nd session of ISCA, Kolkata.
- 4. A.K.Mitra (1996) Uptake of heavy metals and production of sporocarps by *Calocybe indica*-edible milk white mushroom.Proc.83rd session of ISCA, Patiala.
- 5. A.K.Mitra (1998) Uptake and subsequent displacement of lead in a Pb-tolerant fungal species from Kent, U.K.Proc. of the 85th session of ISCA,Hyderabad.
- R.Chakraborti and A.K.Mitra (1998) Displacement of mycelial lead by other heavy metals in a lead tolerant fungal species from U.K. Proc.21st I.B.S conference, Ujjain.

- 7. A.K.Mitra (1999) Uptake and displacement of lead by other metals in *Poa annua* L. Proc.Natl.Symp. on Frontiers of research in Plant Sc. Natl Bot.Soc.Kolkata.
- 8. A.K.Mitra (2000) Perils of lead exposure to human beings.Proc.87th session of ISCA, Pune.
- D.Banerjee and A.K.Mitra (2000) Impact of industrialization on the agricultural fields around Falta free export zone, West Bengal.Proc.23rd Botanical Conference of I.B.S, Meerut.
- A.K.Mitra (2001) Comparison of industrial effluent and mixed sewage in the agricultural fields of South 24 Paraganas, West Bengal.Proc. 88th session of ISCA, New Delhi.
- 11. A.K.Mitra (2002) Uptake and subsequent displacement of lead in lead tolerant fungal species from Kent, U.K. Natl.Seminar cum workshop on Env.Pollution and its management, J.U. and I.E.E.S Kolkata.
- 12. A.K.Mitra (2003) Enhancement of biological efficiency of oyster mushrooms using non-conventional additives Proc. 90th session of ISCA, Bangalore.
- 13. A.K.Mitra (2003) Effect of zinc on uptake and biological efficiency of oyster mushrooms. Natl Symp.Current trends in res.on microorganism. Ind Mycol.Soc.
- 14. Mitra, A.K and Banerjee, D (2003) Impact of Industrial pollution in the agricultural fields around Falta Industrial Zone, West Bengal.Natl. Seminar on Pollution in Urban Industrial Environment organized by IEES and NML, Jamsedhpur.
- 15. A.K.Mitra (2005) Uptake of calcium and its interaction with other heavy metals on growth and productivity of *Pleurotus sajar-caju*. Proc. 92nd session of ISCA, Ahmedabad.
- Himani, D, Chaudhuri, Chakrabarti, A, Saraogi, N, Banerjee, S.K and Mitra, A.K. (2007) Effect of Nicotine on the micro-organisms of the buccal cavity. 94th Session of the Indian Science Congress Association. Annamalainagar.
- Basu,H.,Nath,C.,Ghosh,E.,Ganguly,S,Agarwal,P.and Mitra,A.K.(2008) Synergistic action of *Alternaria solani* and *Ralstonia solanacearum* in *Solanum tuberosum*. 95th Session of the Indian Science Congress Association, Vizag.
- Chakraborty, A., Burman, S., Sinha, P. and Mitra, A.K (2008) Effect of PAHs and BTEX on petrol pump workers in Kolkata. National Conference on Environmental Pollution of Biosphere and its Management, Kolkata.

- 19. Saha, D and Mitra,A.K.(2008) Isolation and characterization of a metal tolerant bacteria growing in urban backdrop.31st All India Botanical Conference and International Symposium on Plant Biology and Environment: Changing Scenario. Organized by I.B.S and University of Allahabad Allahabad.
- 20. Pal,J, Lahiri,M,Mundhra,S,Basu,H and Mitra A.K.(2009) Novel water filtration units for removal of heavy metals and microbial contaminants. 96th Session of the Indian Science Congress Association at North Eastern Hill University, Shillong.
- 21. Bal, J., Rai, R., Chang, V and Mitra, A.K. (2009) Suppression of leaf blight infection by rust pathogen in roadside coffee plantations.2nd International Conference on Ecotoxicology and Environmental Sciences. at Jadavpur University, Kolkata.
- 22. Mukherjee; Das,B;Nandi,S;Saha,A;Sinharoy,S; Islam,R and Mitra, A.K.(2010)Impact of Banning old vehicles from the streets of Kolkata.97th Session of the Indian Science congress Association at Kerala University, Tiruvananthapuram.
- 23. Upadhyay,S.K;Mukherjee,I;Saha,G; Goswami,S;Naskar,P;Ghosh;A;Basu,S.M and Mitra,A.K. (2010) Isolation and Characterization of metal tolerant bacteria from heavy metal contaminated soil in the vicinity of a sponge iron plant 97th Session of the Indian Science congress Association at Kerala University, Tiruvananthapuram.
- 24. Sil,P,Dutta,S,Baishya,R,Basu,D,Saha,S and Mitra, A.K. (2011) Microbial removal of Hexavalent chromium from railway locomotive effluents in Liluah, West Bengal. 98th Session of Indian Science Congress Association at SRM University, Chennai.
- 25. De, P., Dhar, S., Vasan, V., and Mitra, A.K. (2011) Isolation and characterization of food grown contaminants isolated from packed food. UGC sponsored National Seminar on Advances in Environmental Science and Technology, Vivekananda College, Kolkata.
- 26. Halder,G.,Adhikari,A.,Gupta,A.K.,Dey,R.,Dhar,S. and Mitra,A.K.(2011) Sulphur dioxide sensitivity and antimicrobial role of a crustose lichen isolated from the bark of *Mangifera indica* L.In 3rd International conference on Ecotoxicology and Environmental Sciences, Goa .
- 27. Mukherjee,S.,Paul,I.,Mandal,S.,Chandra,D.,Shadhukhan,S.,Chatterjee,G.,Bhattac harya,A,Das,T.,Sen,P. and Mitra,A.K.(2011)Antagonistic action between phyllosphere organisms leading to the reduction of leaf spot disease in rice.InUGC sponsored National Seminar on Organic Agriculture and Bio-safety, organized by Gurudas College in collaboration with Bidhan Chandra Krishi Viswa vidyalaya, Kalyani.

- 28. Basu,A.,Bhattacharya,P.,Mishra,R.,Chatterjee,A.,Chatterjee,S.,Majumdar,T and Mitra,A.K.(2011)Microbial reduction of toxicity of sponge iron effluents from unorganized sector. In National Symposium on Plant diversity and resources: evolution, analyses, stress and challenges and paleophytodiversity: its aspects and prospects. Organized by Botanical Society of Bengal in collaboration with Department of Botany and CAS in Botany, University of Calcutta.
- 29. Mitra Arup Kumar (2012) Co-ordinated action of macrophytes and microbes on bio-remediation of industrial effluents. Invited speech in the Section of Environmental Science at the 99th Session of the Indian Science Congress Association held at Bhubaneswar, Odisha.
- Bannerjee, V, Mandal, A, Thomas, N, Mandal, S, Biswas, S, Ghosh, S and Mitra, A.K. (2013) Gall formation in Mango leaf in presence of associated pathogen. Proceedings of Environmental Science Section of the 100th session of the Indian Science Congress Association, Kolkata.
- 31. Sengupta,D, Shyamchoudhury,S and Mitra,A.K.(2013) Utilization of Microbes in mitigating arsenic menace. In a UGC sponsored National Conference on "Inclusive Growth, Business and Environment in India's Emerging Economy". Organized by St.Xavier's College (Autonomous) and Shri Shikshayatan College.
- 32. Sett,S, Kundu,S, Das,S,Mitra,A,Banerjee,A and Mitra,A.K.(2013)Phytochemical importance of some potential mangrove plants from the Indian Sundarbans. In a UGC sponsored State level seminar on "Biochemical diversity encompassing advanced sustainable development". Organized by Vivekananda College and Asutosh College.
- 33. Mitra, A.K.(2014) Impact of environmental stress on urban extremophilic bacteria. Invited speech in the Section of Environmental Science at the 101st Session of the Indian Science Congress Association held at Jammu, Jammu and Kashmir.
- 34. Chakrabarti,N, Kaur,P and Mitra,A.K (2014) Anthropogenic factors affecting the vegetation in and around the TajMahal. In the 4th International Conference on Ecotoxicology and Environmental Sciences. Organized by the Institute of Ecotoxicology and Environmental Sciences.
- 35. Mitra, A.K. and Chakraborty, R. (2014) Organic farming: A pathway towards environmental sustainability. Confluence: Master Minds Meet – 2014. Organized by Gaeddu College of Business Studies, Royal University of Bhutan in June, 2014.
- 36. Mitra,A.K (2015) Dynamism of airborne Aspergillus sp. Invited speech in the Section of Environmental Science at the 102nd Session of the Indian Science Congress Association held at Mumbai University, Mumbai.

- 37. Mitra, A.K. (2015) Calocybe indica: A journey towards prominence. In the National Symposium "Advances in Phytopathological Research in Globalized Era with reference to Eastern Region" organized jointly by Department of Botany, University of Ranchi and Indian Phytopathological Society.
- 38. Upadhyay,R;Varghese,J.M; Chakraborty,A;Marathe,N;Pan.S;Gaine,R and Mitra,A.K. (2015) A unique phyllosphere interaction resulting in the control of lemon scab pathogen. 3rd India Biodiversity Meet: An International Conference organized by Agricultural and Ecological Research Unit, I.S.I, Kolkata and Biomathematical Society of India.
- 39. Mitra, A.K (2016) Decolourization of Azo dye by potential bacteria from industrial effluent Invited speech in the Section of Environmental Science at the 103rd Session of the Indian Science Congress Association held at Mysore University, Mysore.
- 40. Kar,D;Chakraborty,R;Maity,T;Datta,A;Kundu,S and Mitra,A.K.(2016)Study of phyllosphere interaction in disease incidence of Raphanus sativus. National Symposium on Microbial diversity and its impact. Organized by Indian Mycological Society and Department of Botany, University of Calcutta, Kolkata.
- 41. Nambier,A; Joshi,S; Datta,S; Ganguly, S and Mitra,A.K (2016) Antimicrobial activity of a unique synthetic Ni(II) Hydrazone complex and its ligand.National Symposium on Facets of Chemistry in Biology organized by Department of Chemistry, St. Xavier's College, Kolkata.
- 42. Giri, M, Mitra, M, Ghosh, A, Chakraborty, D, Angrish, R, Mal, S and Mitra, A.K. (2017) Study of phyllosphere interaction of microbes isolated from infected Taro leaves. RUSA funded International Level Seminar on Recent trends in Microbiology organized by Department of Microbiology, Ramakrishna Mission Vidyamandira, Belur math, Howrah, West Bengal.
- 43. Sengupta, D, Mitra, A.K and Shyamchowdhury,S (2017) Isolation, characterization and bio-sorption study of arsenophilic microbes from its contaminated zone at a two day national seminar on Scientific devices, Technology applications and community linkage organized by Centre for research in nanoscience and nanotechnology, University of Calcutta on March 18 and 19, 2017.
- 44. Puja Agnihotri, Debanjana Sengupta, Bikram Dhara,Sudeshna Shyam Chowdhury, Madhumita Maitra and Arup Kumar Mitra (2018) Arsenic (As) tolerant bacteria isolated from the rhizosphere of *Azolla microphylla*. International Conference entitled, Frontiers in Biological Sciences organized by Post Graduate Department of Microbiology, St. Xavier's College, Kolkata.

BOOKS WRITTEN/EDITED:

- 1. A.K.Mitra (1999) Ed. Environmental Science-Question and Answers by S.Sanyal.Paramount Publishing, Calcutta.Pp.55.
- 2. A.K.Mitra, S.Guha and S.Chanda (2000) Higher Secondary Biology Vol-I Book Syndicate Pvt.Ltd, Kolkata Pp.1056.
- 3. A.K.Mitra and A.Chowdhury (2001) Eds.Sure Success in Life Science by Ten Teachers East west Publishing Pvt.Ltd.Kolkata.Pp.230.
- 4. A.K.Mitra and D.Mitra (2001) I.S.C Environmental ScienceVol I Books and Allied Pvt.Ltd.Kolkata Pp.181.
- 5. A.K.Mitra (2001) Bastumukhi Udvidbidya.Book Syndicate Pvt.Ltd.KolkataPp.235.
- 6. A.K.Mitra, S.Guha and S.chanda (2001) Higher Secondary Biology Vol.II Book Syndicate Pvt.Ltd.Kolkata.Pp1384.
- 7. A.K.Mitra, D.Mitra and R.Sen (2002) I.S.C.Environmental Science Vol.II Books and Allied Pvt.Ltd.Kolkata.Pp.286.
- 8. A.K.Mitra and D.Chattopadhyay (2002) Joint Entrance Biology. Book Syndicate Pvt.Ltd.Kolkata Pp.1130.
- 9. Datta,S.K; Mitra, A.K and Chattopadhyay,D (2003) Elements of General Science, Vol. I (For Class VI). Bengal Book Syndicate Pvt.Ltd. Pp.114.
- Mitra, A.K. and Chattopadhyay, D (2003) Elements of Life Science. Vol. II(For Class VII). Bengal Book Syndicate Pvt.Ltd. Pp. 88.
- 11. Mitra, A.K. and Chattopadhyay, D (2003) Elements of Life Science. Vol. III (For Class VIII). Bengal Book Syndicate Pvt.Ltd. Pp. 89.
- 12. Mitra, A.K., Guha, S and Chanda, S (2004) A textbook of Biology (Vol.I). Book Syndicate Pvt.Ltd.Kolkata. Pp.638.
- 13. Mitra, A.K., Dutta, S and Rath, N.R. (2004). Elements of Life Science for Classes IX and X. Bengal Book Syndicate Pvt. Ltd., Kolkata. Pp. 294.

- 14. Dutta, S and Rath, N.R. and Mitra, A.K. (2004). Jiban Vigyan for Classes IX and X New Book Syndicate Pvt. Ltd., Kolkata. Pp. 294.
- 15. Mitra, A.K., Guha, S. and Chanda, S (2005) A Text Book of Biology (Vol.II). Book Syndicate Pvt.Ltd. Pp.1379.
- Dutta, S., Rath, N.R and Mitra, A.K. (2005) Jiban Bigyan for Tripura Board of Secondary Education. (Class IX). New Book Syndicate.Kolkata. Pp.211
- 17. Mitra, A. K. (2006) Perils of Urban Pollution(Ed) St Xavier's College, Kolkata, Pp.202.
- 18. Mitra, A.K., Chattopadhyay, D and Datta, D (2007) Joint Entrance Biology. Book Syndicate, Kolkata. Pp.571.
- 19. Mitra, A.K., Chattopadhyay, D and Datta, D (2007) Joint Entrance Biology (In Bengali). Book Syndicate, Kolkata. Pp.590.
- 20. Mitra, A. K., Bhattacharya, S. and Saha, D (2007) Environmental Studies St. Xavier's College and Edutech Solutions Pvt. Ltd, Kolkata Pp.304.
- 21. Mitra, D and Mitra A.K. (2009) Environmental pollution on biosphere and its management. (Ed) Volume I. ICFAI University Press, Hyderabad. Pp.241.
- 22. Mitra, D and Mitra A.K. (2009) Environmental pollution on biosphere and its management. (Ed) Volume II. ICFAI University Press, Hyderabad. Pp.256.
- 23. Dutta, S.C, Rath, N.R. and Mitra, A.K. (2011) Jib Bigyan Parichay, Volume I Book Syndicate Pvt. Ltd. Kolkata, Pp.1450.
- 24. Mitra, A.K., Chattopadhyay, D and Chanda, S (2013) A Text Book of Biology. Book Syndicate Private Limited, Kolkata. Pp.2016.
- 25. Mitra, A.K. and Sarkar, K (2013) Practical Manual of Modern Microbiology. Himalaya Publishing House. New Delhi. Pp.221.
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