

BIO-DATA

NAME: DR.ARUP KUMAR MITRA

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

ADDRESS

A. **REIDENCE:** 62B Alipore Road, Kolkata 700 027.

E-mail: drakmitra01@sxccal.edu, drakmitra01@gmail.com

Mobile: 098310 41051

COLLEGE: St.Xavier's College, 30 Park Street, Kolkata 700 016.

Tel.: 91-33-22551276, 91-33-22551295

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, in 1st 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 the 21st 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:

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

Ph.D Awarded:

1. Dr. Saurav Sett, Department of Marine Science, University of Calcutta in August, 2019. Title of the Thesis: Study on In vitro Antibacterial and anti-fungal activity of selected mangrove plant extracts from Indian Sundarbans.

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 2002 and 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 December 8-11, 2010.
- Served as a resource person in a seminar entitled Journey of Microbiology: Evolution to its modern age application, organized by TDHCK 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 (mmyaseen@ksu.edu.sa) elseviersciences 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 in UGC 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 “Re-looking 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 to 11th, 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.
- Selected as a Resource Faculty by MHRD in the SAYAM program to deliver an e course on Advanced Microbiology through the SAYAM portal in August to October, 2018.
- Serving as Assistant Controller of Examinations since April, 2018, St. Xavier’s College (Autonomous) under University of Calcutta.
- Selected as a Resource Faculty by MHRD in the SAYAM program to deliver an e course on Food Microbiology through the SAYAM portal in February to April, 2019.
- Acted as a resource person in a National Seminar entitled “Recent Trends in Plant Disease Management “ organized by the Department of Botany, LN. Mithila University, Darbhanga, Bihar in March, 2019.
- Acted as a resource person in the International Seminar entitled ‘Climate Change, Precision Agriculture and innovative disease control strategies for sustainable agriculture at Bhagalpur University in February 2020.
- Assistant Controller of Examinations, St Xavier’s College, Kolkata since April, 2018 to April, 27th 2021.
- Controller of Examinations, St. Xavier’s College, Kolkata since May 10th till date.

SEQUENCES SUBMITTED:

1. *Exiguobacterium indicum* Strain DSAM 62 NCBI Accession Number MH819520 Date of Submission 01.09.2018 (S6C2).
2. *Bacillus cereus* Strain DSAM01 NCBI Accession Number MH915673 Date of Submission 16.09.2018 (C-7).
3. *Bacillus subtilis* Strain DSAM 02 NCBI Accession Number MH978625 Date of Submission 26.09.2018 (A-2).

4. *Bacillus* sp NCBI Accession Number MH819519. Date of Submission: 07.09.2018.
5. *Bacillus cereus*. NCBI Accession Number SUB5434081 P1 MK774799. Date of Submission: 15.04.2019
6. *Enterobacter* sp.NCBI Accession Number SUB5434081 P2 MK774800. Date of Submission: 15.04.2019.
7. *Enterobacter tabaci*. NCBI Accession Number SUB5434081 P3 MK774801. Date of Submission: 15.04.2019.
8. Whole Genome Sequence submitted and published *Exiguobacterium indicum* Str. DSAM62; SRA SRS5131771. Accession No. PRJNA555453. ID 555453. Published on 19.07.2019.
9. *Exerohilum rostratum* BDAM_SXC. NCBI Accession Number SUB190421seq_48287 MN337265 Date of Publication: 26.08.2019.
10. *Bacillus zhangzhouensis* MMAM strain S3consensusseq 16S ribosomal RNA gene, partial sequence. GenBank: MT185655.1.Date of Publication: 17.03.2020.
11. *Enterobacter hormaechei* strain. NCBI. GenBank Accession No.: MT672707.1. Date of Publication: 03.07.2020
12. *Bacillus vallismortis* strain TR01K 16S ribosomal RNA gene, partial sequence. GenBank: MT672714.1. Date of Publication: 03.07.2020.
13. *Bacillus subtilis* strain BRAM_G1 16S ribosomal RNA gene, partial sequence GenBank: MW006633.1. Date of Publication 20.9.2020.
14. *Bacillus subtilis* strain BRAM_G2F 16S ribosomal RNA gene, partial sequence GenBank: MT998278.1. Date of Publication: 19.9.2020
15. *Bacillus subtilis* strain BRAM_G3 16S ribosomal RNA gene, partial sequence GenBank: MT998617. Date of Publication: 20.9.2020
16. *Mesobacillus subterraneus* strain BRAM_Y2 16S ribosomal RNA gene, partial sequence. GenBank: MW002419.1Date of Publication:20.9.2020.
17. *Brevibacillus parabrevis* strain BRAM_Y3 16S ribosomal RNA gene, partial sequence. GenBank: MW081864.1. Date of Publication: 13.10.2020.
18. *Bacillus paramycoides* strain BDBA_SXCM4 16S ribosomal RNA gene, partial sequence.Gene Bank: MW917244.1. Date of Publication: 13.04.2021.
19. *Bacillus paramycoides* strain DBBA_P1,16S ribosomal RNA gene, partial sequence.Gene Bank: MZ227489.1. Date of Publication: 24.05.2021.
20. *Bacillus paramycoides* strain DBBA_K1,16S ribosomal RNA gene, partial sequence.Gene Bank: MZ227495.1. Date of Publication: 24.05.2021.
21. *Bacillus wiedmannii* bv.*thuringiensis* strain BDBA_BM1,16S ribosomal RNA gene, partial sequence.Gene Bank: MZ229894.1. Date of Publication: 24.05.2021.
22. *Bacillus LUTI*strain DBBA_BT,16S ribosomal RNA gene, partial sequence.Gene Bank: MZ229975.1. Date of Publication: 24.05.2021.

PATENTS FILED:

1. PATENT APPLICATION PUBLICATION (21) Application No.201931008079 A, INDIA
Date of filing of Application :01/03/2019 (43) Publication Date : 29/03/2019
Title of the invention : HUMECTANT HAND AND SURFACE SANITIZER AND PROCESS OF PREPARING THE SAME
International classification :A01N25/22
Name of Applicant : Satwik Majumder, Arup Kumar Mitra
Name Of Inventor : Satwik Majumder, Arup Kumar Mitra, Aditi Das, Anish Pyne, Anwit Sadhukhan, Twisha Chatterjee, Vidhi Agarwal.
2. PATENT FILED: No. 202031029308.Dated 10.07.2020. Subject : Exocaria agallocha is a natural important source of Bergenin.
Name of the Inventor: Tamanna Sultana, Arup Kumar Mitra and Satadal Das.

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/-, completed
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.
11. WBDBT sponsored project on 2018 entitled Mangrove plants: A solution to bacterial, fungal and cancerous growth. No.71(Sanc.)-BT/ST/P/S&T/2G-45/2017 Sanctioned amount: 14 lakhs 44 thousand.
12. DBT Star College Grant: 2019-2022. Rs.62 Lakhs for the Department of Physics, Chemistry and Microbiology, St Xavier's College.
13. DBT, GOI, Development of Biological Control Technology for invasive species, *Polyalthia suberosa*, Hamjam, in Wild Life Sanctuary of Bethuadahari, West Bengal-(BT/PR39375/FCB/125/51/2020) as Co-investigator.
14. DBT,GOI: Biology and Applications of Polyextremophilic Micro-organisms under the DBT Builder –St. Xavier's College (Autonomous). Kolkata,

Department of Microbiology & Biotechnology-Interdisciplinary Life Science Programme for Advanced Research and Education” Duration 5 years from 2021. Total Amount Sanctioned. Rs. 2 Crore 67 lakhs 26 thousand 826 only. Sanction No. BT/INF/22/SP41296/2020.

15. DST-GOI: Estimation of the potential impact on human health of cyanobacteria..... a comparative assessment between India and Poland". **Indo Polish Call for Proposal 2019 reg.**

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.
6. 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.
9. 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.
10. 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.
16. 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.

17. 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.
18. 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., Bhattacharya, 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. In UGC 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.
 30. 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 Taj Mahal. 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. Mitra, A.K (2017) Plant –fungi interaction in the removal of heavy metal from contaminated site. Invited speech in the Section of Environmental Science at the 104th Session of the Indian Science Congress Association held at Tirupati University, Tirupati.
43. 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.

44. 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.
45. Mitra, A.K (2018) Treatment of tannery effluents by residual bacterial microflora. Invited speech in the Section of Environmental Science at the 105th Session of the Indian Science Congress Association held at Manipur University, Imphal.
46. 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.
47. Mitra, A.K and Tamanna Sultana (2019) Multifaceted role of PGPR in reducing pollution and augmenting plant productivity. Invited speech in the Section of Environmental Science at the 106th Session of the Indian Science Congress Association held at Lovely Professional University, Jalandhar.
48. Mitra,A.K. (2020) Water quality and natural protective microbes in a holy water body in Punjab. Invited speech in the Section of Environmental Science at the 107th Session of the Indian Science Congress Association held at University of Agriculture, GKVK campus, Bangalore.
49. Mitra, A.K (2020) Multidimensional Role of Mycorrhizae in preventing soil degradation. Invited lecture in the International Conference entitled Climate Change, Precision Agriculture & Innovative Disease Control Strategies for Sustainable Agriculture at the Department of Botany, T.M. Bhagalpur University, Bhagalpur, Bihar.

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 Science Vol 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.
10. 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.
16. 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.
26. Mitra, A.K (2014) Better Orientation for Undergraduate Students. In Science Education Beyond High School, CARE publication, SINP, Kolkata.Pp.56.
27. Mitra,A.K. (2014) Applied Plant Physiology.Book Syndicate Pvt.Ltd, Kolkata. Pp.358. ISBN978-81-89019-79-2.
28. Mitra,A.K and Chattopadhyay,D (2014) Life Science and Environment for Class IX. New Book Syndicate Pvt.Ltd. Pg.144.
29. Dutta,S.C; Rath,N.R and Mitra, A.K. (2015) Jib Bigyan Parichay, Volume I Book Syndicate Pvt. Ltd. Kolkata, Pp.1438.ISBN978-81-89019-61-7.
30. Mitra,A.K, Chattopadhyay,Chandra,S.(2015) A Text Book of Biology,Volume II. Book Syndicate Pvt. Ltd. Kolkata, Pp.594.ISBN 978-81-89019-84-6.
31. Mitra,A.K and Chattopadhyay,D (2015) Life Science and Environment for Class X. New Book Syndicate Pvt.Ltd. Pp.135.
32. Mitra,A.K and Chattopadhyay,D (2016) Fundamentals of Life Science Life Science. New Book Syndicate Pvt.Ltd. Pp.285.
33. Sett,S; De,T.K; Mitra,A. K and Mondal, N. B (2016) Antifungal activity of purified *Aegialitis rotundifolia* extract against pathogenic fungi *Mycovellosiella*. In "Conservation, cultivation, diseases and therapeutic importance of medicinal and aromatic plants" Ed. H.K.Chourasia and A.K.Roy, published by Today &

Tomorrow's Printers and Publishers, New Delhi. Pp510. ISBN81-7019-554-X (India); ISBN1-55528-409-4(USA).

34. Sultana,T and Mitra, A.K. (2018) PGPR in plant development: A biotechnological approach. In Plant Systematics and Biotechnology: Challenges and Opportunities. Ed.H.K Chourasia and D.P.Mishra, published by Today & Tomorrow's Printers and Publishers, New Delhi.Pp.604.ISBN 81-7019-608-9.
35. Mitra,A.K, Dutta, D and Roy, L (2018) Comprehensive Microbiology. Current Books International, Kolkata. Pp.822. ISBN: 978-93-85274-05-3.
36. Mitra A.K., Arpan Chatterjee Ujjyani Ghosh, Ishani Banerjee, Sreeja Saha, Monalisa Barman, Debjani Dutta (2018) On line 2019 Petroleum Biodegrading Property of Microbial Consortia from a Contaminated Site. In: Kumar V., Kumar M., Prasad R. (eds) Microbial Action on Hydrocarbons. Springer, Singapore DOI https://doi.org/10.1007/978-981-13-1840-5_24.
37. Mitra, A.K and Chattopadhyay , D (2020) Fundamentals of Life Science. Ed. J. Dasgupta . New Book Syndicate. Kolkata. Pp.372
38. Mukhopadhyay, M, Biswas, S, Ghosal,M, Basu, S, Ghosh,S.K, Shyamchowdhury,S and Mitra,A.K. (2020) Improvement of Soybean production in low productive soil by the utilization of native microbial flora. In Precision Agriculture and Sustainable Crop Production. Eds. H.K.Chourasia, K.Acharya and V.K.Singh.Today and Tomorrow's Printers and Publishers, New Delhi. Pp.631. ISBN 9788170196679.
39. Maitra, D, Dhara, B, Sultana, S, Chakraborty, Mitra, A.K and Shyamchowdhury, S. (2020) Mycorrhizal Association in Agriculture and their role in preventing climate change. In Precision Agriculture and Sustainable Crop Production. Eds. H.K.Chourasia, K.Acharya and V.K.Singh.Today and Tomorrow's Printers and Publishers, New Delhi. Pp.631. ISBN 9788170196679.
40. Dipankar Roy and Arup Kumar Mitra (2020) Bacterial Remediation of chromium from industrial sludge. Chapter 6; 97-125. In Recent Advancements of Bioremediation of Metal Contaminants. Ed. Satarupa Dey and Biswaranjan Acharya. IGI Global Pennsylvania. Pp.363. ISBN13: 9781799848882, ISBN10: 1799848884, EISBN13: 9781799848899, DOI: 10.4018/978-1-7998-4888-2.
41. Mitra, A.K., Das, S., Saha, T., Biswas, S., Datta, D., Sau, S., and Das, S.(2020) Study and Characterisation of Microenvironment of Prawn Culture Tanks and its Importance in Productivity. Pp.139 -147.In Current Status of Researches In Fish and Fisheries. Ed. P.C Joshi,A.K.Saxena,V.LSaxena and V.D. Joshi. Today and Tomorrow's Printers and Publishers, New Delhi. ISBN 10: 81-7019-659-3 ISBN 13: 9788170196594.Pp.299.

42. Mitra, A.K and Chakraborty, R (2021) An Introduction to Mycology and Phytopathology. Pp.320. Taurean Publications, New Delhi.ISBN 978-93-5062-371-8

LIST OF PUBLICATIONS:

1. R.P.Purkayastha and A.K.Mitra (1992) Metal uptake by mycelia during submerged growth and by sporocarps of an edible fungus *Volvariella volvacea*. Ind.J.Exp.Biol **302**: 1184-1187.
2. R.P.Purakayastha, A.K.Mitra and B.Bhattacharyya (1994) Uptake and toxicological effects of some heavy metals on *Pleurotus sajor-caju* (Fr.) Singer. Ecotoxicol. & Environ.Safe.**27** (1): 7-13. (Academic Press.USA).
3. R.P.Purkayastha and A.K.Mitra (1994) Uptake and transport of heavy metal pollutants by edible fungi and its impact on mammalian system. Proc. Natl. Symp.of mushrooms, Solan, H.P. in Mushroom Res.**3** (2): 97.
4. A.K.Mitra and R.P.Purkayastha (1995) Uptake of heavy metals by edible mushrooms and its impact on mammalian system after oral exposure.J.Natl.Bot.Soc.**49**: 27-33.
5. A.K.Mitra, R.P.Purkayastha, N.B.Chatterjee and B.Bhattacharyya (1995) Uptake and tissue distribution of cadmium contaminated edible mushrooms and its effect on blood.Curr.Sc.**68** (10): 1050-1053.
6. A.K.Mitra and R.P.Purkayastha (1995) Recent improvement in biological efficiency of an edible mushroom *Calocybe indica* P&C for commercial cultivation in the plains of India. Indian Farming.**45** (8): 25-26.
7. A.K.Mitra and R.P.Purkayastha (1995) Heavy metals and mushrooms. Mush.Res.4 (2): 43-48.
8. A.K.Mitra and R.P.Purkayastha (1998) Metal uptake by edible mushrooms and its impact on growth and cellular proteins. Fronteirs in Mushroom Research Eds. T.K.Abraham, N.S.Pradeep and P.Pushpangadan. TBGRI.Pp.40-55.
9. M.Basu and A.K.Mitra (2002) Concentration of industrial effluents on the polluted sites of Damodar River in Burdwan and its impact on pH and C.O.D level.Nat.Environ and Poll.Tech.1 (4) 397-399.

10. Mitra, A.K. (2004) Effect of zinc on biological efficiency of oyster mushrooms, *Jour.Mycopath.Res.***42** (1): 101-103.
11. Pore, D and Mitra, A.K. (2005) Effect of Interaction of heavy metals on pathogenic fungi of *Oryza sativa* L.in “Pollution in Urban Industrial Environment” Ed.S.N.Das, Y.V.Swamy, K.K.Rao, V.N.Misra.Allied Publishers Pvt.Ltd. Pp.296
12. Mitra.A.K. (2005) Uptake and subsequent displacement of lead in lead-tolerant fungal species from Kent, U.K. in “Applied Botany”, Ed.P.C.Trivedi, Aavishkar Publishers, Rajasthan, India Pp.360.
13. Nath,A.,Sen,S.,Nath,C.,Ghosh,E.,Agarwal,P and Mitra,A.K.(2008) Use of low calorific fast food from fruit pulp and Betel leaf extract in the treatment of Diabetes Mellitus. *The ICFAI Jour.Life Sc.***2** (1):15-23.
14. Sett,S.,Bhattacharjee,D.,Mookerji,R.,Rakib,T.,Sarkar,K and Mitra, A.K.(2008) Effect of heavy metal contaminated maize on mammalian system. *Nature Environ. and pollution tech.***7** (2):345-350.
15. Mitra, A.K. and Calcuttawala, F (2009) Effect of Heavy Metal Contamination on Rice Pathogenic Fungi in Reclaimed wetland of East Kolkata. In “Phytoremediation and Environmental Biotechnology”, Ed.P.C.Trivedi Pointer Publisher, Jaipur. Pp.214.
16. R.Sen, Dattaroy, Gupta, R, Barman, P, Basu, Bhattacharya, S and Mitra, A.K. (2009) Antiglycemic and antioxidant effect of mushroom diet. *Aviskaar: A Xav.Jour.Res.* **1**: 68-74.
17. Mitra Arup (2009) Ecofeminism in U.S.A: Its past, present and future. In *Ecofeminism: An Overview*. Ed. Debamitra Mitra and Kasturi Basu. ICFAI University Press. Hyderabad, Pp.230.
18. Bal, J., Rai, R., Chang, V; Banerjee; Malakar, D and Mitra, A.K. (2010) Characterization of pathogenic bacteria isolated from rust infected coffee leaves. *Aviskaar: A Xav.Jour.Res.* **2**: 95-99.
19. Mitra,A.K.,Banerjee,P.,Saha, G, Lahiri,P,Mukherjee,I,Bhattacharya,A(2010) Agonistic association of Lepidoptera and fungus in the development of leaf spot disease in high altitude mango and its control. *Jour.of Phytology*, **2**(7):28-36.
20. Soumi Sinha Roy, Anwasha Saha, Gaurav Saha, Pritam Naskar, Arindam Ghatak and Arup Kumar Mitra (2011) Role of saline tolerant *Aspergillus* spp. in calcium recycling from sea urchin shell. *Aviskaar: A Xav.Jour.Res.* **3**: 17-27.
21. Ganguly,S,Sinharoy,S,Acharya,D,Sengupta,M,Shome,D,Baidya,M and Mitra,A.K. (2011) Possible invasion of terrestrial bacteria into marine algal consortium. *The IUP Journal of Life Sciences.* **5**(2):7-14.

22. Acharya, D, Baishya, R, Saha, S, Sil, P, Majumdar, S and Mitra, A.K. (2011) Agonistic phyllosphere consortium of microbes in the development of leaf spot disease of high altitude fern. In "Plant diseases and their biological control" Ed. A. Singh. Avishkar Publishers, Jaipur, India Pp.276.
23. Chandra, A, Saha, G, Goswami, S, Saha, A, Sinha Roy, S, Ganguly, P, Ghosh, A, Banerjee, K, Saraf, R, Banerjee and Mitra, A.K. (2011) Effectivity of vehicular banning and its reflection in Disease incidence in Kolkata. Nature Environment and Pollution Technology. **10** (3):491-496.
24. Mandal, A., Ali, A., Mitra, A.K., Ghosh., and Chandra, A. (2011) Effect of Sponge iron effluent on common roadside weeds in Durgapur, West Bengal. Proceedings of the 3rd International Conference on Ecotoxicology and Environmental Sciences. Organized by IIES in Panaji, Goa Ed. B. Bhattacharya, A. Ghosh and S.K. Majumdar. Mudrakar, Kolkata Pp.292.
25. J. Bal, Rai, R., Chang, V and Mitra, A.K. (2011) Suppression of leaf blight infection by *Hemileia vastatrix* in roadside coffee plantations. In Environmental Pollution and Ecological Impacts, Health Issues and Management. Ed. B. Bhattacharya, A. Ghosh and S.K. Majumdar. Mudrakar, Kolkata Pp.152.
26. Mukherjee, A., Islam, R., Bhattacharya, A., Bose, S, Matharu, S.K., Mukherjee, S. and Mitra, A.K. (2011) Identification and characterization of zinc solubilizing bacteria isolated from mixed sewage of East Kolkata wetlands. Nature Environment and Pollution Technology **10** (4):657-660.
27. Datta, R, Ghosh, A., Sengupta, D, Ghosh, M, Mal, A., Dey, S and Mitra, A.K. (2011) Molecular Identification of a bacterial pathogen reducing shelf life of *Agaricus bisporus* and its prevention. Jour. Mycopathol. Res. **49**(2):301-307
28. Mitra, A.K., Banerjee, A., Sinha, S. and Chakraborty (2012) Characterization of a Cyanobacterial colony from an artificially illuminated speleothem cave in Andhra Pradesh. Plant Sciences Feed. **2**(2):11-14.
29. Mitra, A.K., Majumder, R, Adhikari, A, Banerjee, K, Sen, N, Barman, P and Datta, R (2012) Possible threat to sandbinders from dual action of airborne pathogen and pollutant. . Plant Sciences Feed. **2**(8):112-115.
30. Sen, S, Mandal, S, Mullick, A, Kundu, S, Goswamy, D, Mukerjee, S, Das, M and Mitra, A.K (2012) Isolation of unique Gram positive rods from diseased rice leaves. Int. Jour. Scientific and Res. Pub. **2**(10):1-7.
31. Mukherjee, S, Saha, A, Ram, A.K, Roy Chowdhury, A and Mitra, A.K. (2012) Identification and Characterization of a green pigment producing bacteria isolated

from Bakreshwar Hot Spring, West Bengal, India. International Journal of Environmental Science and Research. **2**(1):126-129.



32. Chakraborty, R, Mitra, A.K., Sinharoy, K, Mukherjee, S and Kumar, S. (2012) Isolation and Characterization of Cr (VI) Tolerant bacteria from tannery waste and its bioremediation potential. J. Environ. Sc and Engg. **54** (2): 294-305. (I.F:0.9)
33. Ray, S, Datta, R, Bhadra, P, Chowdhury, B and Mitra, A.K (2012) From Space to Earth: *Bacillus aryabhatai* found in the Indian sub-continent. Bioscience Discovery. **3**(1):138-145. (I.F.0.388)
34. Saha, I, Mitra, A.K. Shyam Chowdhury, S and Mitra, B (2013) Chromium uptake by a bacteria isolated from *Lemna* rhizosphere in a lentic ecosystem. International Multidisciplinary e-Journal **2**(1):67-73.
35. Nandy, D, Chowdhury, P, Poddar, S, Jha, S and Mitra, A.K (2013) Interactive effect of Phyllosphere organism on disease development in *Syzygium samarangense*. International Journal of Advanced and Innovative Research. Feb. 133—138.
36. Mal, A; Sengupta, D; Ghosh, M; Dasgupta, P; Dey, P; Shyamchowdhury, S and Mitra, A.K. (2013) Protective algal consortium in the sporocarp of wood rotting fungus from bacterial chitinase activity. J. Mycopathol. Res. **51**(1): 145-149. (I.F.0.4)
37. Sengupta, D; Mitra, A.K and Shyamchowdhury, S (2013) Identification and Characterization of effectively arsenic tolerant bacterial strains from the potential arsenic contaminated site in 24-Parganas (North) District of West Bengal, India. Nature Environment and Pollution Technology. **12**(2):303-308. (I.F:0.45)
38. Chakraborty, R, Mitra, A.K. and Mukherjee, S (2013) Synergistic chromium bioremediation by water lettuce (*Pistia*) and bacteria (*Bacillus cereus* GXBC-1) interaction. J. Biol. Chem. Research. **30** (2): 421-431. (I.F:0.58)
39. Anirban Mullick, Arunima Seal, Sreejata Bandopadhyay, Durba Mukherjee, Mithun Das, Arup Kumar Mitra (2013) In Vitro Antibiotic Susceptibility Of Gram Positive Rod Isolated From Soil In The Vicinity Of A Dumping Site .Int. Jour. Curr. Res. Review. **5**(13):1-13. (Pending)
40. P. Dasgupta, Bishnu, A, Talukdar, P, Daw, S, Maitra, M and Mitra, A.K, Chandra, A, Mitra, D and Banerjee, M. (2013) Microbial diversity in specific areas of skin and their antibiotic sensitivity. Aviskaar: A Xaverian Jour. of Research. **5**: 11-22.
41. Sharmistha Biswas^{1,2}, Nivya Thomas^{1,2}, Anamika Mandal^{1,2}, Anirban Mullick^{1,2}, Deepanwita Chandra², Swati Mukherjee², Saurav Sett and Arup Kumar Mitra* (2013) *In Vitro* Analysis Of Antibacterial Activity Of Vitamin C Alone And In Combination With Antibiotics On Gram Positive Rod Isolated From Soil Of A

Dumping Site Of Kolkata Int.Jour. Of Pharmacy and Biological Sciences. **3** (3): 101-110. (I.F:0.4)

42. Anumeha Saha*, Chandan Mahish, Indrajit Poirah, Atreyee Ghosh, Arkajyoti Mukherjee, Arup Kumar Mitra (2013) Antagonistic Relationship between *Bacillus cereus* And *Bipolaris* sp in the Leaf Spot Disease of *Basella alba*: A Novel Finding. International Journal of Pharmacy and Biological Sciences. **3**(4):30-41.(IF:0.4)
43. Sett,S, Mahish,C,Poirah,I, Dutta,D, Mitra,A and Mitra,A.K(2014) Antifungal activity of *Aegialitis rotundifolia* extract against pathogenic fungi *Mycovellosiella*. World Journal of Pharmaceutical Research. **3**(1):403-417. (IF:0.652) .
44. Banerjee, V.,Mandal,A,Thomas,N,Mandal,S,Biswas,SGhosh,S and Mitra,A.K.(2014) Gall formation in Mango leaf in presence of associated pathogen.Aviskaar:A Xaverian Journal of Research.**6**: 11-17.
45. Sett,S, Kundu,S, Das,S, Mitra,A, Banerjee,A and Mitra,A.K. (2014) Screening for the total phenolic content of selected mangrove species collected from Sundarban mangrove forest. International Journal of Pharma and Bio Sciences. **5**(1):(B)1157-1163. I.F.0.67.
46. Sengupta, D, Mitra, A.K, Shyam Choudhury, S and Chandra, A (2014) Isotherm Study in Arsenic tolerant bacteria isolated from Arsenic affected area in West Bengal. IOSR Journal of Environmental Science, Toxicology and Food Technology.**8** (1) Ver.II: 08-19.I.F.1.325.
47. Saha,A, Chakraborty,S,Dutta,S, Chakraborty,S, Pal,S, Mitra,A.K.(2014) Isolation and Characterization of Pathogenic fungi from *Vitis vinifera* from the historical site Agra Fort. Jour.Applied and Environmental Microbiology. **2**(1):28-30.
48. Saurov Sett1*, Jaylakshmi Hazra2, Suhana Datta3, Abhijit Mitra1, Arup Kumar Mitra4 (2014) Screening The Indian Sundarban Mangrove For Antimicrobial Activity.Int.Jour.Sc. Inovations and Discoveries.**4**(1): 1-9.
49. Sutapa Som Chaudhury*, Tamalika Sen, Anasuya Moitra, Soumi Chaudhuri, Sudeshna Shyam Choudhury, Arup Kr Mitra.(2014) Induction of Productivity in *Cicer arietinum* By Phosphate Solubilizing *Pseudomonas*.World Journal of Pharmacy And Pharmaceutical Sciences. **3**(4):1481-1493. (I.F.Pending).
50. Nilanjana Chakrabarti and Arup Kumar Mitra (2014) Possible Pollution Threat to the Green Buffer Zone around TAJ MAHAL. IOSR. Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) **8** (4) Ver. I : 68-72 (I.F.1.325)
51. Choudhury,S.S and Mitra,A.K (2014) Oxidative stress and its protection in rice (*Oryza sativa*) seed during storage.International Journal of Biology and Allied Sciences(IJBPAS) **3** (5): 740-760. (Impact Factor-1.09).

52. Sharma,J, Gurung,T, Upadhyay,A,Nandy,K, Agnihotri,P and Mitra, A.K.(2014) Isolation and Characterization of plastic degrading bacteria from soil collected from the dumping grounds of an industrial area. *International Journal of Advanced and Innovative Research*. **3**(3):225-232.(I.F-0.349).
53. Hazra,J and Mitra,A.K (2014) Dynamism of Rhizosphere organism in the enhancement of Agricultural Productivity. *WJPR*.**3**(6):1156-1165.(I.F:5.045)
54. S.Datta*, S.Shyam Choudhuri and A.K.Mitra (2014) Increased Biomedical Potential of *Pleurotus ostreatus* through the usage of Effective Substrate. *Int J Pharm Bio Sci*. **5**(4): (B) 882 – 894.(I.F.2.958).
55. Saha,A,Das,R,Dasgupta,M,Dutta,S,Haque,G and Mitra,A.K. (2014)Isolation and Characterization of Multidrug resistant pathogen from soil samples collected from Hospital Disposal site. *IOSR Jour. Of Env.Sc.Toxicol. and Food Tech.(IOSR-JESTFT)*.**8**(5)Ver.IV:74-80.(I.F.1.325)
56. Adrika Raybarman, Kazi Atikur Rahman, Russel Miranda Vincent, Sayantani Chatterjee, Upasana Sen, Arup Kumar Mitra, SudeshnaShyam Choudhury, Riddhi Majumder (2014) Isolation and characterisation of lignin-degrading fungus from coir. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*.*Volume 8, Issue 10 Ver. II PP 07-11*(I.F.1.325).
57. Nilika Bhattacharya, Apala Pal, Preeti Khan, Moumita Basu , Sohini Chakraborty, Nayanika Sengupta and Dr. Arup Kumar Mitra (2014) Heavy Metal Leaching By A Novel *Aspergillus* sp. isolated from a Polluted Site. *World Journal of Pharmaceutical Research*. Volume 3, Issue 8, 597-611. (I.F.5.045).
58. Sharma,J, Gurung,T, Nandy,K, Mitra, A.K. (2014)Efficiency of different nitrogen fixing bacteria with respect to growth and development of legumes. *Int.Jour.Curr.Microbiol. App.Sc.* **3** (10):799-809. (I.F.1.5)
59. B. Mitra*,A. Chaterjee, T. Mookherjee, M. Basu, S. Das, A. K. Mitra. (2014) Study of Host (*Michelia champaca*) and Pathogen (*Phomopsis micheliae*) interaction. *International Journal of Advances in Pharmacy, Biology and Chemistry (IJAPBC)* **3** (4): 884-900.
60. A.Mitra,Roy,D, Roy,P, Bor,A.M, Sarkar,B and Mitra,A.K. (2014) Sustainability of *Aspergillus* spp.in metal enriched substrate aiming towards increasing bioremediation potential. *World Jour.of Pharmacy and Pharmaceutical Sciences (WJPPS)* **3** (11): 864-878.
61. Dasgupta,M, Das,R,Haque,G, Banerjee,I,Nandy,S, Mitra,A.K and Roy,L (2014) Modification of Asphalt texture by heavy metal tolerant bacteria isolated from industrial effluent. *Nature Environment and Pollution Technology*. **13** (4): 787-790.

62. Das,A, Chattopadhyay, Kundu,D, Mandal,R,Roy,P and Mitra,A.K. (2014) Isolation and Characterization of a dye degrading bacteria from textile effluents. World Journal of Pharmaceutical Research. Volume 3, Issue 10, 570-582. (I.F.5.045).
63. Roy,P, Afrin,S, Mitra, A, Nazar,R, Nandi, T and Mitra, A.K.(2014) Enterobacter mediated chromium remediation from tannery effluent in East Kolkata. Jour. Bot.Soc.Bengal 68(2):105-110.ISSN 0971-2976.
64. Sett, S, Kundu,S, Das, S and Mitra, A.K. (2014) Sundarban mangroves: Study of phytochemistry,antioxidant and antimicrobial properties of selected species from the Indian Deltaic region. Jour. Bot.Soc.Bengal 68(2):111-116.ISSN 0971-2976.
65. Pramita Chowdhury, Saheli Podder, Debdyuti Nandy, Sushmita Jha, Anuradha Roy, Nilika Bhattacharya, Soumanetra Chandra, Arup Kumar Mitra (2015) Bio remedial Activity of a Moderate Extremophile from Pharmaceutical Effluent. Aviskaar-A Xaverian Journal of Research. Vol.VII : 42-49.
66. Islam,S, Mullick,A,Sarkar,R,Das,A,Halder,S and Mitra,A.K. (2015) Microbial Bioremediation and tolerance of copper from gold plating effluent.Proceedings of the International Conference on Climate Change and the Developing World, Kottayam.Edition 1 Vidyanikshepam,CMS College.Pp.384-392.
67. Prateeka Borar¹, Kushan Chowdhury¹, Neeraja Marathe¹, Parijat Das¹, Sowptika Pal¹, Arup Kumar Mitra¹, Sudeshna Shyam Choudhury¹(2015) Isolation and characterization of *Aeromonas aquariorum* from a dye effluent and its effect in bioaugmentation. IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 9, Issue 2 Ver. III (Feb 2015), PP 10-16.(I.F. 1.325)
68. Mrinalini Ghoshal, Debarpan Dhar, Sanjit Chakraborty, Sayanti Majumdar, Swagata Majumder, Dr. Arup Kr. Mitra (2015) Modifications in the biochemical properties of *Helianthus annuus* due to infection by *Pseudomonas syringae*, *Alternaria* spp and *Cercospora* spp.IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 9, Issue 4 Ver. I (Apr. 2015), PP 44-50.(I.F.1.325).
69. Datta,S, Mullick, A, Paul, S, Kundu,R, and Mitra,A.K.(2015) Evaluation of antimicrobial, antioxidant and anticancerous activity of *Calocybe indica* P&C. . J.Botan.Soc.Bengal **69** (1):19-25
70. Mullick,A, Shah,A, Datta,S, Shyam Choudhury and Mitra, A.K (2015) Antimicrobial activity of cell free extract of *Pseudomonas aeruginosa* MTCC741 towards human pathogens. J.Botan.Soc.Bengal **69** (2):153-157.
71. Ranita Dutta and Arup Kumar Mitra (2016) Induced Biological changes in *Channa* sp. Aviskaar: A Xaverian Journal of Research. Vol.8: Pg.61-66.

72. Sarkar,B; Ghosal,M; Das,A and Mitra,A.K.(2016)Bioremediation of arsenic by athree tier composite system and characterization of Gram negative short rods from pesticide contaminated wastewater. *Int. J. of Engineering Associates*.5 (1):61-66. (I.F.0.23).
73. Chakraborty, A, Varghese,J.M, Gaine, R, Upadhyay,R, Marathe,N, Pan,S and Mitra, A.K. (2017) RIsolation and Characterisation of a potential dye degrading microbe. *Aviskaar,A Xaverian Journal of Research*. Vol.IX.Pp.69-85.
74. Chatterjee,A, Ghosh,U, Bannerjee I, Saha,S, Barman,M,Haque,A and Mitra A.K. (2017) A study on the biodegradation of Petroleum by a novel microbial consortia. *IOSR Journal of Environmental Science, Toxicology and Food Technology(IOSR-JESTFT)* e-ISSN 2319-2402, p-ISSN2319-2399. Vol.11 (3).Ver.III:50-58.(DOI: 10.9790/2402-1103035058. (I.F.1.03)
75. Chatterjee,A, Bhattacharjee,A and Mitra A.K. (2017) A study on the bioremediation ability of the common microflora isolated from tannery effluents. *IOSR Journal of Environmental Science, Toxicology and Food Technology(IOSR-JESTFT)* e-ISSN 2319-2402, p-ISSN2319-2399. Vol.11 (3).Ver.III:104-114.(DOI:10.9790/2402-110303104114.(I.F.1.03)
76. Bharitkar,Y.P, Datta,S, Sett,S, Marathe,N, Khan,P, Hazra,A, Singh,M,Sahoo,A, Ghosh,S, Mondal,S, Mitra,A.K, Ravichandran,V and Mondal,N.B. (2017) In vitro antimicrobial, antiproliferative and antioxidant activities of Bis pyrrolizidine fused dispiro oxindolo curcuminoids. *Chemistry and Biology Interface*. 7(1): 19-31.(I.F.2.8).
77. Shuvam Pramanik,^a Suhana Dutta,^b Sima Roy,^a Soumitra Dinda,^{ab} Tapas Ghorui,^a Arup Kumar Mitra,^b Kausikisankar Pramanik  ^{*a} and Sanjib Ganguly  ^{*b} (2017) Luminescent closed shell nickel(II) pyridyl-azo-oximates and the open shell anion radical congener: molecular and electronic structure, ligand redox behaviour and biological activity *New J. Chem.*,**41**, 4157-4164.
<https://doi.org/10.1039/C7NJ00402H>. I.F. 3.07
78. Arghyadeep Bhattacharjee1* , Maitrayee Mondal1 , Krishanu Dutta1 , Krittika Rao1 Monmita Bhar2 , Nafizul Haque Kazi2 , Aritra Dutta2 , Vinayak Ghosh,Arup Kumar Mitra (2017) Role of Common Primer as an Antifungal Agent in Timber. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)* e-ISSN: 2319-2402,p- ISSN: 2319-2399.Volume 11, Issue 3 Ver. III (Mar. 2017), PP 96-103. DOI: 10.9790/2402-11030396103. (I.F.1.03).
79. Jakubowski H¹, Xie J², Kumar Mitra A³, Ghooi R⁴, Hosseinkhani S⁵, Alipour M⁶, Hajipour B⁷, Obiero G⁸.(2017) The Global Ethics Corner: foundations, beliefs,

and the teaching of biomedical and scientific ethics around the world. *Biochem Mol Biol Educ.* **45** (5) : 385-395. doi: 10.1002/bmb.21059.

80. Ranjana Shee1*, Adrija Chakraborty1, Ankita Chakraborty1, Kritika Rao1, Ritu Upadhyay1, Arup Kumar Mitra (2017) Differential Resistance of Soil Borne Microbes to Commonly Used Antibiotics. *International Journal of Pharmaceutical Research and Applications* www.ijprajournal.com ISSN: 2456-4494 Volume 2, Issue2, PP. 01-10.
81. A.Bhattacharyya, Chatterjee,A and Mitra, A.K. (2017) Tannery effluents as a source of effective bio-remediation. In *Recent Advances In Biological Sciences* Ed. Dr.K. Sau and P.R.Ghosh. Pp. 140-154. Power Publishers. Kolkata. Pp.180.
82. Sultana,T, Sarkhel, S, Mitra,P,Ghosh,T,Bose,A,Das,A and Mitra,A.K. (2017) Role of Plant Growth Promoting Rhizobacteria(PGPR) in the reduction of heavy metal contamination and bio-augmentation of legume productivity. *J. Bot. Soc.Bengal.* 71 (1&2):23-31. ISSN0971-2976.
83. Tamanna Sultana, Sayanti Majumdar and Arup Kumar Mitra (2018) Phytoremediation potential of nickel by *Cyperus rotundus* along with its rhizospheric fungi. *J. Mycopathol. Res.* **55(4)** : 383-389, 2018; (ISSN 0971-3719).
84. Tamojit Chatterjee, Purban Ganguly and Arup Kumar Mitra (2018) A community based study to assess the microbiological profile and antibiotic sensitivity pattern of conjunctival flora among street children in a city in Eastern India. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS)* e-ISSN: 2279-0853, p-ISSN: 2279-0861. Volume 17, Issue 5 Ver. 5 (May. 2018), PP 01-04. DOI: 10.9790/0853-1705050104.
85. Arnab Kundu, Deyasini Chakraborty, Shivranjani Baruah, Aditi Mukherjee, Ankita Bose, Arup Kumar Mitra (2018) Development of a Novel Microbial Consortia to Preserve and Protect the Rhizosphere of Soil and Facilitate Organic Agriculture. *IJCRT* Volume 6, Issue 1, ISSN: 2320-2882. I.F. 5.97.
86. Nilanjan Bose*, Rajarshi Chaudhuri , Sourik Dey and Arup Kumar Mitra (2018) Extra-terrestrial Phosphate: the sole source of nourishment for Terrestrial Microbes. *Bioscience Discovery*, 9(3):371-380, ISSN: 2229-3469 (Print); ISSN: 2231-024X (Online) I.F.0.092.
87. Arghyadeep Bhattacharjee, Abhishek Pal and Arup Kumar Mitra (2018) Effect of Plant growth Regulator fungicide and Abscisic acid on the growth and biochemical properties of *Basella alba* as a model system. *JETIR* November 2018, Volume 5, Issue 11. (ISSN-2349-5162). I.F.4.14. **JETIR1811189**

88. Angela Perris, Anindita Bhattacharya, Monika Naskar, Tulika Biswas, 1Noyonika Mukherjee, Subhankhi Pal, Arup Kumar Mitra (2019) An Analytical Study of the Air Quality, Microbial Index And Metal-Microbial Interactions Using Leaf as an Assessment Tool. *JETIR* 6(3): 241-249. (ISSN-2349-5162). I.F.5.87. **JETIR1903739**
89. Tamanna Sultana, Arup Kumar Mitra and Satadal Das (2019) A Preliminary Observation On An Explicit Antimicrobial Action Of Mangrove Plants On *Pseudomonas aeruginosa*. *Asian Jour. Pharma. and Clinical Res.* 12(5): 226-230. Online - 2455-3891 , Print - 0974-2441. I.F 0.588.
90. Arpita Dutta, 1Sayani Kundu, 1 Anjali Yadav, 1Arighnee Mitra, 1Aparajita Dutta, 2Arup Kumar Mitra (2019) Detection of coliforms from drinking water sources, their characterisation and checking their susceptibility against different common drinking water disinfectants. **JETIR 6(4):494-507**(ISSN-2349-5162). I.F.5.87. **JETIR1903739**
91. Aishita Chakraborty¹, Debmalya Banerjee¹, Sameer¹, Anirban Chakrabarty¹ Meghna Majumder¹, Sayan Dey, Arup Kumar Mitra(2019) Comparative efficacy between Branded and Generic antibiotics against common pathogenic bacteria. *JETIR* 6(6):219-221. (ISSN-2349-5162). I.F.5.87. **JETIR1903739**.
92. S. Datta*, G. Banerjee and A.K. Mitra (2019) Effect of Different Agricultural Waste Substrates on the Biological Efficiency and Therapeutic Value of *Calocybe indica* (P and C) *International Journal of Pharmacy and Biological Sciences-IJPBSTM* (2019) 9 (2): 1157-1168 Online ISSN: 2230-7605, Print ISSN: 2321-3272. [IC value : 4.72] [Doi No:10.21276/ijpbs.2019.9.2.139]
93. Debapriya Roy*, Srijan Bhattacharya, Antara Biswas, Arpan Banerjee, Shinjini Ghosh and Arup Kumar Mitra (2019) In vitro synergism between algae and bacteria isolated from bio-diversity hotspot for better environmental sustainability. **Bioscience Discovery** 10(3): 134-141. I. F. 0.09. (ISSN-2231-024X).
94. B. Roy, Bhattacharya,S, Chakraborty,S,Banerjee,S, Ekram.S, Chakraborty, A and Mitra, A.K. (2019) Isolation and characterization of extremophilic organisms from a hot spring at Yamunotri, Uttarakhand. *Indian J.Aerbiology.* 32 (1&2): 25-32. ISSN No. 0971-146.
95. Nandy, D., Maity, A. & Mitra, A.K. (2020) Target-specific gene delivery in plant systems and their expression: Insights into recent developments. *Journal of Biosciences* 45: 30. <https://doi.org/10.1007/s12038-020-0008-y> (Impact Factor-1.82)
96. Bikram Dhara¹ & Amrita Maity¹ & Poushali Mondal¹ & Arup Kumar Mitra¹(2020) First report of Exserohilum leaf spot: a unique halophilic pathogen in *Cucumis sativus* in the South Bengal area of India. *Australasian Plant Pathology* . 49:257–266. <https://doi.org/10.1007/s13313-020-00705-9>.(Impact Factor: 0.9).
97. Suhana Datta,* Jyoti Dubey, Shweta Gupta, Ayoshi Paul, Payel Gupta, & Arup Kumar Mitra (2020) Tropical Milky White Mushroom, *Calocybe indica* (Agaricomycetes): An Effective Antimicrobial Agent Working in Synergism with Standard Antibiotics. *International Journal of Medicinal Mushrooms*, 22(4):335 – 346. (Impact Factor: 1.39).
98. Soumitra Dinda, Tamanna Sultana, Suhana Sultana, Sarat Chandra Patra, Arup Kumar Mitra, Subhadip Roy, Kausikisankar Pramanik and Sanjib Ganguly (2020) Ruthenocycles of benzothiazolyl and pyridyl hydrazones with ancillary PAHs: synthesis,

- structure, electrochemistry and antimicrobial activity. *New J. Chem.*, **44**, 11022-11034
<https://doi.org/10.1039/D0NJ01447H> Impact Factor: 3.288
99. Debanjana Sengupta^{1,*}, Siddhartha Chakraborty¹, Sudeshna Shyam Choudhury¹, Sayak Ganguli², Arup Kumar Mitra (2020) Isolation and Identification of Unique Arsenotolerant Exiguobacterium indicum DSAM62 from Arsenic Rich Environment. *Advances in Zoology and Botany* 8(4): 298-325, <http://www.hrpub.org> DOI: 10.13189/azb.2020.080403.
100. Sharan Sarawgi^{1*}, Shrey Sarawgi¹, Jyoti Dubey¹, Shweta Gupta¹, Anish Chakraborty¹, Tamanna Sultana¹ and Arup Kumar Mitra¹ (2020) Isolation, Identification and Resistance of *Salmonella* spp. in Eggs for Human Consumption. *Asian Food Science Journal* 18(3): Article no.AFSJ.61255 ISSN: 2581-7752.
101. Soumi Chatterjee¹, Bikram Dhara^{2*}, Dattatreya Mukherjee³, Debraj Mukhopadhyay⁴, Arup Kumar Mitra² (2021) A Review on the SARS-CoV-2 Mediated Global Pandemic: Proximal Origin, Pathogenicity and Therapeutic Approaches. *J Antivir Antiretrovir*, Vol.13 Iss.3 No:1000220. Pg.1-9. ISSN: 1948-5964. Impact Factor 1.17.