Name:	Dr Swati Chakraborty
Photograph:	
Experience:	12 years teaching Experience
Awards and Recognition:	**2020:** Acting as Principal Investigator under the project of Environment Department, GOVT of West Bengal Development of Biological database of Microbes Diversity of East Kolkata Wetland Area. **2019:** • Acted as Principal Investigator under the project Identification of heavy metal chromium Cr(VI) & Ni Nickel tolerance bacteria to develop microbial biosensor and Role on Secondary Metabolic of medicinal plant *Bacoapa monnieri* in metal contaminated soil of East Kolkata wetland under Department of Science &Technology • Theme Speaker World Environment day Organized by BNCCI & NEERI on Air Pollution, 2019 **2018:** Invited as a Speaker in a Seminar on Beating the Plastic pollution on World Environment Day 2018 Under Swachhata Abhijan Awarness Drive organized by NSIC 2018

	2017: Organized as Convener one day National Seminar on Biodiversity Conservation and Sustainable use of Biological Resources jointly with **West Bengal Biodiversity Board.** **2015:** • Received Best Faculty Award 2015 in JIS SAMMAN • Organized as **Convener** National Science Day with **Department of Science & Technology,** Current Innovations in Biotechnology in Human welfare. **2014:** 1st prize awarded for the oral presentation in India Biodiversity Meet'2014, ISI Kolkata.
Books/ Chapter published:	**2018:** Developing Microbial whole cell Biosensor for detection of heavy metal pollution in water. December 2018. Biotechnology and Nature.Publisher- Kabitika, Page-260. ISBN No.:- 978-93-87602-66-3
Papers published:	**2020:** 1. Dutta S and Chakraborty S: Estimation of phytochemical characteristics and antioxidant property of secondary metabolites of a memory enhancing medicinal herb Baccopa monnieri of East Kolkata Wetland. *Int J Pharm Sci & Res* 2020; 11(6): 2860-67. doi: 10.13040/IJPSR. 0975-8232.11(6).2860-67 2. Swati Chakraborty, 2 Swagata Roy and 3 Subhayan Dutta (2020) Isolation, optimization and characterization of protease producing bacteria from soil collected from East Kolkata *International Journal of Multidisciplinary Educational Research* Wetland ISSN:2277-7881; IMPACT FACTOR :6.514(2020); IC VALUE:5.16; ISI VALUE:2.286 Peer

	Reviewed:VOLUME:9, ISSUE:5(8), MAY:2020
	2019:
	3. Ekta Bhattacharya , Rajashree Dutta , **Swati Chakraborty** , Suparna Mandal Biswas,. (2019)Phytochemical profiling of Artocarpus lakoocha Roxb. leaf methanol extract and its antioxidant, antimicrobial and antioxidative activities. *Asian Pacific Journal of Tropical Biomedicine* 2019; 9(11): 484-492
	2018
	4 Subhayan dutta, swati chakraborty, R. C. Srivastava, (2018) Environmental Impact Assesment & Incidence of occurrence of Disease among the public health in East Kolkata wetland area, International Journal of Bioinformatics and Biological Science(Volume:6 P-55-63) December 2018
	5.Firdous, K and Chakraborty, S.(2018). Correlation of different soil parameters and evaluation of its effect in a ramsar site East Kolkata Wetland. *International Journal of Scientific Research in Science and Technology*, 4:2 966-976.ISSN: 2395-6011
	.
	2017:
	6.Dutta, S and Chakraborty, S.(2017). The effect of pollution on hydrological parameters analysis of East Kolkata Wetland area. *International Journal of Development Research*, **7:9** 15452-15458.**Impact Factor 2017: 5.667; ORCID:orcid.org/0000-0002-3345-184X** ISSN 2230-9926 Thomson reuters research id:J-4025-2016
	7.Swati Chakraborty, Subhayan Dutta ,(2017) Review on Genetic Regulation Reduction and resistance Mechanism of Chromium. *International Journal of Multidisciplinary Research Review* Print ISSN: 2395-1877 Pg-82-87

	8. Swati Chakraborty, Khaleda firodus,(2017),A Review : Naturally available sources of chitosan and analysis of chitosan derivatives for its antimicrobial activity ,*International Journal of Recent Scientific Research* Pg:15773-15776 ISSN:0976-3031K-7356-2016 Volume:8, Issue:3 March-2017
	2016: 9. Swati Chakraborty, subhasree das ,(2016) The role of Osmotin Protein Tolerance to Biotic and Abiotic Stress in Plants, *International Journal of Bioinformatics and Biological Sciences*. Vol. 4 No.1, June 2016
	2015: 10. Chakraborty, Swati (2015) Environmental Sustainability in Waste Water Treatment by Phytoremediation With *Pistia Stratiotes*. (Water Lettuce) in East Kolkata Wetland. Int J Bioresource, Environment and Agricultural Sciences (IJBEAS) Vol. 1(4): 132-139 ISSN 2454-3551
	2013: 11.Nandi, Swati; Srivastava, R.C (2013) Heavy Metal Association in Waste Water Irrigated Crop . *Int J Polution Research*, 32(3):599-602 (Accredited By NAAS:Jrn.I.D.: A198; NAAS Rating:3.4, SCOPUS index 16.00). ISSN 0257-8050. 12.Nandi, Swati; Srivastava, R.C; Agarwal , K.M. (2013) Heavy Metal Concentration in Surface Water of East Kolkata Wetland. *Ind. J Public Health Research & Development.* 4:244-247.(ISSN-0976- 0245, Electronic ISSN-0976-5506, Accredited By Index Copernicus {Poland} Indian citation index, Google scholar, CINHA Hil, EBSCO

	host(USA):Jrn.I.D.: A198; NAAS Rating:3.4, SCOPUS index 16.00) 13.Nandi, Swati; Srivastava, R.C (2013) Health Hazard among the Fisherman and Farmers of East Kolkata Wetland. *J Advances in Medicine*.2,(1): 15-21; Print ISSN : 2277-9744. Online ISSN : 2319-4324 **2012** 14. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. (2012) Accumulation of Heavy Metals by *Solanum melongena* Irrigated with Waste Water. *Int J Agriculture, Environment & Biotechnology*, 5, 4 :329-332. (Accredited By NAAS: ISSN. NO.:0974-1712; NAAS Rating:3.9). 15. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. (2012) Bioaccumulation of Heavy Metal in *Brassica oleracea* Effects on Human Health. *Int. J. Medical Sciences*,5 : 21-23 (ISSN: 0974-2654, Online ISSN: 0976-7932,Accredited By NAAS:Jrn.I.D.: A198; NAAS Rating:3.1). 16. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. (2012) Lead Cadmium accumulation in fresh water fishes *Labeo rohita* and *Catla catla. J. Environment Research and Devlopment*, 6 ,3A: 748-752 (ISSN 0973-6921,Impact factor-0.157).
Conference Proceedings:	**2020** 1. P. Meghna Rao Swati Chakraborty "Compparative and efficacy study of Biodegradation of the petroleum diesel,and engine oil along with the

	production of Biosurfactants by the soil degrading bacteria isolated from oil contaminated soil"9th International Science Conference World Science Congress at Gandhi Bhawan, JU dated 28/2/2020 to29/2/2020 Stood 1st position in poster presentation 2. P.Meghna Rao, Swati chakraborty "Review on application of Rhamnolipid (Biosurfactant) in the formulation of Detergent"33rd Annual Convention of Indian Pharmacy graduates Association , Biswa bangla dated 17th August 2019 3. Ankita Dey, Swati chakraborty "Antibiofilm activity of ethanolic extract of betel leaf on oral biofilm"Algae, fungi, plant Systematics to application (AFPSA 2020) 24th January to 25th january 2020. 4. Rikparna Ghosh Dastidar, swati chakraborty "Heavy metal skin Diseas and its manifestations"International Conference on 'Present Scenario Of BIOAVAILABILITY and BIOEQUIVALENCE studies and its Regulatory Affairs"At Dr.Triguna sen Audirorium ,Jadavpur University 12th Feb 2020 5. Priyanka Singh, swati chakraborty "Household E waste management:A surveyReport"3rd international conference on waste management RECYCLE 2020 13th 14th feb 2020 **2019** 1. Ankita Dey. Swati chakraborty "A review on Antibiofilm Effect of Phytocompounds on bacterial biofilm"33rd Annual Convention of Indian Pharmacy graduates Association , Biswa bangla 17th august 2019 2. Chaiti Mukherjee , swati chakraborty "Encapsulation of probiotic microsphere with antioxidnt property

	for imparting drug delivery to the colon"33rd Annual Convention of Indian Pharmacy graduates Association , Biswa bangla17th august 2019 3. Chaiti Mukher jeee, swati chakraborty," Isolation of Different probiotic bacterial strains from human breast milk as well as from cow milk and to check there activity on human health"9th International Science Conference World Science Congress at Gandhi Bhawan, JU Stood 2nd position in poster presentation 4. Sumita saha , swati chakraborty, "Comparative study of silver nanoparticles from different sources on the biofilm bacteria"9th International Science Conference World Science Congress at Gandhi Bhawan, JU 28th to 29th Feb 2019 3rd position in poster presentation 5. Oral Presentation 2019 Applications of Microbial Biosensor for using analysis of environmental pollutant and it's seasonal impact. International conference on 6th Biodiversity Meet. Organized by ISI Kolkata 14th February to 16th February, 2019 6. Dutta, S and Chakraborty, S. 2019 Isolation of Endophytic Bacteria and it's interaction with plants secondary metabolites. International conference on 6th Biodiversity Meet. Organized by ISI Kolkata 14th February to 16th February, 2019 7. Firdous, K and Chakraborty, S. 2019 Plant Diversity of East Kolkata Wetland and formulation of Bio pesticide : An approach to ecological balance. . International conference on 6th Biodiversity Meet. Organized by ISI Kolkata 14th February to 16th February, 2019 .

	2018 1. Oral Presentation on In climate change Carbon Sequestration roles of Sunderban Mangrove.International conference Livelyhood Promotion, Biodiversity conservation and Social Security in Indian Sunderbans.Organized by Visva-Bharati Page-117, 7th December 2018. 2. .Dutta, S and Chakraborty, S. 2018 Determination of qualitative phytochemical properties of *Bacopamonnieri*leaves collected from a ramsar site, EKW, National seminar on 'Advancement in Green Technology for Controlling and Managing Current Environmental Pollution'. Organized by Kalayani University 22nd and 23rd March, 2018. 3. Firdous, K and Chakraborty, S. 2018 Optimization of Chitosan producing bacteria from the soil sample of East Kolkata Wetland area and it's antibacterial effect., National seminar on 'Advancement in Green Technology for Controlling and Managing Current Environmental Pollution'. Organized by Kalayani University 22nd and 23rd March, 2018. **2017** 1. Dutta, S and Chakraborty, S. 2017. Isolation and purification of chromium and nickel resistant endophytic bacteria. Frontiers in Biotechnology, Chapter II, Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata, **20** pp-17. 2. Firdous, K and Chakraborty, S. 2017. Cheap sources of chitosan

	from bacterial species. Frontiers in Biotechnology, Chapter II, Department of Biotechnology, St. Xavier's College (Autonomous), Kolkata, 4 pp-8. **2016** 1. Oral presentation **"**Bioremediation Approach of Agricultural Soil: Kolkata Wetland Area". International Conference on Emerging technologies in Agricultural and food engineering (ETAE2016) IIT kharagpur, IIT kharagpur 27th-30th December 2016 2. Khaleda firodus, swati chakraborty A Natural Polymer Chitosan Producing bacteria from plant Sources, International Conference on the Green Planet Past Present Future Organized by Department of Botany , University of Calcutta Dec 21st-23 2016 3. Subhayan dutta, Swati chakraborty Effect of Environmental Pollution on Chromium resistant Bacteria by Efflux Mechanism International Conference on the Green Planet Past Present Future, Organized by Department of Botany , University of Calcutta Dec 21st-23 2016 4. Chakraborty swati, " Rhizosphere Microbes interaction in medicinal plants of East Kolkata Wetland" National Seminar on Plant and Microbe: Diversity and Utilization, March 19-20th 2016, Department of Botany, Visva-Bharati.

	5. Chakraborty swati; Srivastava. R.C, Agarwal , K.M. " Threat on natural sustainability of the ecosystem and integrated management of resource recovery practice in east Kolkata wetland area" International Conference on Social Issues and Social Work: Public and private 29th January 2016 **2015** 1. Chakraborty Swati, " Effect & Toxicity Relationships to Fish Production and Human health: Implication of management Waste water in East Kolkata Wetland" International conference Frontiers in Modern Biology 2015 IISER Kolkata 2. Chakraborty Swati; " Effect of heavy metal & potentiality for the Production of rice: A sustainable Development of East Kolkata Wetland" International Conference 3rd India Biodiversity Meet Nov 16-18, 2015 3. Chakraborty Swati; " Effect & Toxicity relationships to fish production and human health: Implication for management Waste water in East Kolkata Wetland" Frontiers in Modern Biology Dec 5-6th, 2015 **2014** 1. Chakraborty swati; Srivastava. R.C, "Evaluation of heavy metal in toxicity on rice cultivation by sewage water in east kolkata wetland region". In International Conference: Mother Earth: save it to Achieve a Sustainable Future for All Dec-10-12,2014. 2. Nandi, Swati; Srivastava, R.C;" Assess the effects of heavy metal pollution on indian major carp

	species from waste water fed fish pond of east kolkata wetland. In Conference on India Biodiversity meet 2014 Nov 21-23 3. Nandi, Swati; Srivastava, R.C " Analysis and assessment of essential Toxic heavy metal in context of east kolkata wetland" in international Conference on Integrating "Agriculture & Allied research: Prioritizing Future potentials for secure livelihood " ISIAAR' Nov 2014 **2013** 1. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. "Approach of modeling to assess the long term effect of climate change ability on water quality and algae in east kolkata wetland" in National conference on Frontiers in Algology and Algal Biotechnology[NCFAAB] , on 15th -17th Nov 2013. 2. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. "Sustainable development and demographic assessment of east kolkata wetland ecosystem" in the 11th Seminar on Wetlands & Biodiversity Conservation and Role of Education for Sustainable Development by Indian Environmental Society. 2013 3. Nandi, Swati "Sustainability & productivity in thrust on natural ecosystem due to urbanization in the context of east kolkata wetland" in conference India Biodiversity Meet in Indian Stastical Institute, kolkata, on 14th-16th March 2013. 4. Nandi, Swati; Srivastava, R.C , Agriculture practice at east kolkata wetland: environmental

	assessment" National seminar on 'Echos of Silent Spring: Human Impact on Environment" to be held at Department of Environmental Studies, Visva – Bharati University, Santiniketan on 9th March, 2013. **2012** 1. Nandi, Swati; Srivastava, R.C; Agarwal , K.M. Heavy metal contamination in soils and paddy crop in &around east kolkata wetland: implication on human health" , Seminar of National academy of Sciences, Nov 2012 in 82nd Annual session & National symposium on Nano-Science & Technology, at BHU Varanasi. 2. Nandi, Swati; Sarkar, Amitava ,"Heavy metals accumulation in soil and distribution pattern in *Brassica Oleracea*" National Symposium attend on "Plant Microbe Interactions and Crop Health Management" at Visva Bharati on October 2012, **2011** 1. Nandi, Swati; Srivastava, R.C " Heavy metal accumulation in irrigation water, soil and bioaccumulation in human through vegetables as daily intake" in National Academy of Sciences.2011 2. Nandi, Swati "Prospect of waste water management by duckweed based fish pond system" 2nd International Conference on Soild Waste Management at Jadavpur University, Nov, 2011 3. Srivastava, R.C ; Nandi, Swati " Performance evaluation of certain STPs in kolkata metropolitan area & challenges in waste water management" at the National

	Seminar, IPHE&IWWA, Kolkata, 2011. **Eaelier:** 1. Nandi, Swati; Roy P "Endophytic association with plant and it's resistant to heavy metal", Department of Botany, UGC Centre for Advanced study. Burdwan University, March 19th – 20th, 2010, P-110 2. Nandi, S, "Bioremediation by aquatic macrophytes clean up the heavy metals in Water Ecosystems" International Conference, Department of Env Sc, Burdwan University, Gr VI, 6.11, P.127. 3. Nandi, Swati; Sarkar, Amitava "Reduction of hazardous substance of E-Waste resist ecological disaster", Recent Advances in Environmental Science & Technology, BHU, Pg-75, 2009 4. Nandi, Swati; Sarkar, Amitava ; Agarwal,K.M "E-Waste scenario : come up with biotechnological solution" – UGC Sponsored National Seminar on Biotechnology for the 21st Century : New Horizons, Bhopal, Pg-89, 2009 5. Nandi, Swati; Sarkar, Amitava "E-Waste a growing challenge to ecological and human health", ICONSWM, P-36, 2009 6. S Nandi, Swati; Sarkar, Amitava ; Agarwal,K.M ,"Phytoremediation of toxic metal of E-Waste clean up the environment", FOSET, DST, Govt. of West Bengal, Department of Higher Education, Department of IT, Govt. of West Bengal, Pg-63, 2009. 7. Nandi, S"Persistent organic pollutant consequences on biodiversity" – DBT Sponsored. National Conference Biodiversity &

	Agribiotechnology JIIT, Pg -56, 25th April, 2009. 8. Nandi, Swati; Sarkar, Amitava "E-Waste a emerging pollutants of present world" International conference – emerging Technologies in Environmental Science and Engineering, by A.M.U. and The University of Toledo Ohi O, U.S.A. 19 -21st October, 2009. 9. Nandi Swati, Trends in Cellular and Molecular Biology Journal, JNU: Compare the efficacy of different serological & serum protein profile study for diagnosis of viral disease peste des petitis ruminants (PPR) in goats 10. Chakraborty, j L; Nandi **S**.2007. Sustainable dairy development needs technology upgradation ICFOST Indian institute of Technology (IIT) 11. Nandi, Swati ; Agarwal K.M The E-waste: Threat to biodiversity ,Indian Stastical Institute,Kolkata2007 12. Published article on E-waste in Saturday Times Date: 24th March, 2007 13. Nandi, S**;**Agarwal K.M ;Sarkar A; Dutta K. Ashoke.2007.E-waste management-biotechnological
Any other details:	**Editorship:** Chief Editor of internationally renowned peer-reviewed journal International Journal of Bioinformatics and Biological Sciences (IJBBS) **Conference Chair:** Invited as an Adjudicator of the extempore competition held in occasion of the International Day of Biological Diversity celebration by West Bengal Biodiversity Board on 2018.

	Resource person: Life member of South Asian Forum of Environment, Executive committee member of Environment Committee of BNCCI etc, Acted as Member of Board of Studies in MAKAUT, Peptide society of India.