



1. Name: SAPTARSHI KONAR
2. Designation: State Aided College Teacher
3. Department : Molecular Biology & Biotechnology
4. Date Of joining: 21.08.2018
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7. Academic Qualifications:

Degree	Stream	College / University	Year of Passing
Ph.D.	Molecular Biology and Biotechnology	University of Kalyani , West Bengal	2019
M. Sc.	Molecular Biology & Biotechnology	University of Kalyani , West Bengal	2009
B. Sc.	Botany (Hons.)	University of Calcutta, West Bengal	2007

8. Total Experience:
 - 8 a) Teaching Experience: 5yrs
 - 8b) Research Experience: 10yrs

9. Experience Details:

Research Experiences:

- Ph.D. research in Molecular Biology & Biotechnology from University of Kalyani. (September 2012–March 2019). (Thesis title: A study on *in vitro* plant regeneration and amelioration of drought tolerance by gamma irradiation and β -aminobutyric acid elicitation in *Hibiscus sabdariffa* L.)
- CSIR-Project fellow in the CSIR sponsored project entitled, “Pathway engineering and system biology approach towards homologous and heterologous expression of high value phytochemicals” at Indian Institute of Chemical Biology (IICB), Kolkata. (April 2011–August 2012).
- Senior Research Fellow in the externally funded NFBSRA research project entitled “Rumen microbial manipulation for mitigation of methane emission and productivity enhancement of dairy animals” at National Dairy Research Institute (N.D.R.I., Eastern Regional Station, ICAR), Kalyani . (January 2010–April 2011).
- Summer trainee in the project entitled “Molecular diagnosis of multidrug resistant tuberculosis: a rapid detection tool”, at Dept. of Biochemistry, Institute of Postgraduate Medical Education & Research (IPGMER), Kolkata. (May – June 2008).
- Two weeks (June 2009) in-plant Industrial training mainly emphasized on various techniques of processing of milk and milk products, chemical as well as microbiological quality control, ETP and instrumentation involved in Dairy industry, at Central Dairy, Belgachia, Kolkata. (Under the Directorate of Dairy Development, Government of West Bengal).

Teaching Experiences:

- 1st Jan. 2020 to cont.: State Aided College teacher in Molecular Biology & Biotechnology at Kanchrapara College, W.B.
- 1st Nov. 2018 to 31st Dec. 2019: Assistant Professor (contractual) in Biotechnology (B.Sc. & M.Sc.) at Institute of Genetic Engineering, Kolkata, West Bengal.
- 21st Aug. 2018 to 31st Dec. 2019: Guest lecturer in Molecular Biology & Biotechnology at Kanchrapara College, W.B.

10. Area of Research: Plant molecular biology, Plant tissue culture, Plant stress biology, *in vitro* mutagenesis and Plant Genetic transformation.

11. Publications:

- 11 a) Number of Publication in International Journal: 3
 11 b) Number of Publication in National Journal: 6
 11 c) Number of Publication in International Conference Proceedings: 4
 11 d) Number of Publication in National Conference Proceedings: 5
 11 e) Number of Books / Books chapters: 2

12. List of Publication:

12a) International Journal:

Author(s)	Title of the Paper	Details of Journal	Publishers
Konar, S., Adhikari, S., Karmakar, J., Ray, A., Bandyopadhyay, T K.	Evaluation of subculture ages on organogenic response from root callus and SPAR based genetic fidelity assessment in the regenerants of <i>Hibiscus sabdariffa</i> L.	Industrial Crops and Products	Elsevier
Konar, S., Karmakar, J., Ray, A., Adhikari, S., Bandyopadhyay, T. K.	Regeneration of plantlets through somatic embryogenesis from root derived calli of <i>Hibiscus sabdariffa</i> L.(Roselle) and assessment of genetic stability by flow cytometry and ISSR analysis.	PloS one	PLOS
Adhikari, S., Ghosh, S., Azahar, I., Adhikari, A., Shaw, A. K., Konar, S., Roy, S., Hossain, Z.	Sulfate improves cadmium tolerance by limiting cadmium accumulation, modulation of sulfur metabolism and antioxidant defense system in maize	Environmental and Experimental Botany	Elsevier

12b) National Journal:

Author(s)	Title of the Paper	Details of Journal	Publishers
Santra, A., Konar, S., Mondal, A., Das, S.K.	Rumen fermentation pattern, enzyme profile and ciliate protozoal population in betel (<i>Piper betle</i>) leaves fed lactating crossbred cows	Indian journal of Animal Sciences	Indian Council of Agricultural Research
Santra, A., Konar, S., Banerjee, A., Mondal, A., Das, S.K.	Effect of increasing level of barley distillers dried grains with soluble on ruminal methanogenesis, enzyme profile and ciliate protozoal population <i>in vitro</i> .	Animal Nutrition and Feed Technology	Animal Nutrition Association
Santra, A., Mondal, A., Konar, S., Banerjee, A., Chatterjee, A., Das, S.K., Ghosh, M.K.	Influence of graded replacement of paddy straw with brewer's spent grain on rumen protozoa, enzyme profile and feed fermentation under <i>in vitro</i> .	Indian journal of Animal Sciences	Indian Council of Agricultural Research
Santra, A., Konar, S., Banerjee, A., Das, S.K.	Effect of betel (<i>Piper betle</i>) leaves supplementation on nutrient utilization, milk yield and its quality in lactating crossbred cows	Animal Nutrition and Feed Technology	Animal Nutrition Association
Santra, A., Konar, S., Banerjee, A., Chatterjee, A., Das, S.K.	Effect of sunflower oil supplementation on utilization and growth performances of crossbred calves.	Indian journal of Animal Sciences	Indian Council of Agricultural Research
Santra, A., Konar, S., Chatterjee, A., Das, S.K.	Effect of dietary sunflower oil on rumen protozoal population and fermentation characteristics in growing crossbred calves	Animal Nutrition and Feed Technology	Animal Nutrition Association

12c) International Conference

Author(s)	Title of the Paper	Details of Conference
Konar, S. ,Karmakar, J., Dam, A.,Ghosh, T.,Bandyopadhyay, T.K.	Eco-friendly synthesis of silver nanoparticles leaf extract of <i>Melaleuca bracteata</i> and its antibacterial activity against clinically isolated pathogens	7th Bangalore India Nano International Conference
Konar, S. , Ojha,D., Dam, A.,Bandyopadhyay, T.K.	Green synthesis of silver nanoparticles from leaf extract of <i>Peperomia pellucida</i> for enhanced antibacterial activity against clinically isolated human pathogens.	6th Bangalore India Nano International Conference
Ojha,D., Konar, S. ,Dam, A.,Bandyopadhyay, M., Bandyopadhyay, T.K.	Rapid <i>in vitro</i> propagation of Aloe vera L.: A miracle medicinal plant.	International Conference on Environment, Health and Industrial Biotechnology, organized by Department of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad.
Konar, S. , Dam, A.,Ojha,D.,Bandyopadhyay, T.K.	Green synthesis of silver nanoparticles using <i>Hygrophila auriculata</i> leaf extract and its antibacterial activity against clinically isolated pathogens.	Indraprastha International Conference on Biotechnology, organized by University School of Biotechnology,Guru Govind Singh Indraprastha University, New Delhi

12d) National Conference

Author(s)	Title of the Paper	Details of Conference
Konar, S. ,Karmakar, J., Bose, S.,Bandyopadhyay, T.K.	In vitro culture of <i>Dendrobium</i> : an alternate strategy for ex situ conservation.	National symposium on Environment Impact on Biodiversity and Plant Development , organized by Department of Biological Sciences, Presidency University.
Konar, S. , Ojha,D., Karmakar, J., Dam, A., Bose, S., Bandyopadhyay, T.K.	Microwave assisted green synthesis of silver nanoparticles from leaf extract of <i>Alocasia indica</i> for enhanced antibacterial activity against clinically isolated human pathogens.	National Conference on Nanoscience and Nanotechnology at Centre for Research in Nanoscience and Nanotechnology (CRNN), University of Calcutta.
Santra, A., Konar, S. , Ghosh, Chatterjee, A., Mandal, A., Das, S.K., Roy, P.K., Dey, R.A.	Effect of dietary supplementation of betel leaves on nutrient utilization, milk composition and milk yield in dairy cattle	39th Dairy Industry Conference at Eastern Zonal Cultural Centre, Salt Lake City, Kolkata.
Santra, A., Konar, S. , Chatterjee, A.,Ghosh, M.K., Das,S.K., Mondal, A.	Effect of dried brewer's spent grain on rumen fermentation, enzyme profile and ciliate protozoal population in vitro.	7th biennial animal nutrition conference at College Veterinary Science and Animal Husbandry, Orissa University of Agriculture and Technology, Bhubaneswar
Santra, A., Konar, S. , Ghosh, M.K., Chatterjee, A.	Effect of supplementation of betel leaves on enzyme profile and ciliate protozoal population in dairy cattle.	7th biennial animal nutrition conference at College Veterinary Science and Animal Husbandry, Orissa University of Agriculture and Technology, Bhubaneswar

12e) Book/ Book chapters:

Author(s)	Title of the Book/Book Chapter	Publishers
Paul, A., Ghosh, S., Konar, S. , Ray, A.	Biorefinery: A Future Key of Potential Energy	Wiley Online Library
Paul, A., Konar, S. , Ghosh, S., Ray, A.	Biogas Production and Uses	Wiley Online Library

13. Awards / Academic Accolades:

- Qualified Graduate Aptitude Test in Engineering (GATE) in Biotechnology (BT)
- Qualified ICAR NET in Agriculture Biotechnology

14. Area of Specialization: Plant Biotechnology