

Curriculum Vitae

Dr. Tapash Dasgupta

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Education

- Ph.D. , Bidhan Chandra Krishi Viswavidyalaya (State Agricultural University), West Bengal, India,1980-1984 (Genetics of *Vigna mungo*) awarded 1984
- M.Sc. (Ag.) , Bidhan Chandra Krishi Viswavidyalaya , 1977 (Genetics and Plant Breeding) , 1st class
- B.Sc(Agriculture) Hons, Bidhan Chandra Krishi Viswavidyalaya 1975 , 1st class.

Professional Experience

- Professor, Ramakrishna Mission Vivekananda University, 2017 (April)-continuing
- Professor, University of Calcutta 2012-2017 (March)
- Visiting Fellow , CIRAD, France 2010 for 3 months
- Marie-Curie International Incoming Fellow by European Commission to work at University of Aberdeen, Scotland , UK on molecular breeding 2009-2012.
- Director, Institute of Agricultural Science, CU, 2012-2015
- Professor and HOD, Genetics and Plant Breeding, University of Calcutta, 2003- 2009.
- Visiting Fellow in Plant Molecular Biology , University of Aberdeen , UK,2003-2004
- Reader of Genetics and Plant Breeding , University of Calcutta, April,1995-May,2003
- Senior Lecturer (Research) Bidhan Chandra Krishi Viswa vidyalaya (State Agricultural University), West Bengal, India 1993-1995
- Asst Wheat Breeder , Bidhan Chandra Krishi Viswa vidyalaya (State Agricultural University, West Bengal, India) 1985-1993
- Post-doctorate Fellow (In service) , International Crops Research Institute for semi-arid Tropics (ICRISAT) in 1988-89

- Junior Scientist , Orissa University of Agriculture and Technology, 1984
- Assistant Executive, NDDDB, Anand, Oil mission, 1984
- Research Officer (Rice), Department of Agriculture, Govt. of West Bengal, 1978-1979

Research Interests

- Breeding high yielding and good cooking quality rice variety and hybrid rice.
- Identifying submergence tolerant lines and submergence QTL utilizing local genetic resources in rice (CU-IRRI- Chinsurah Rice Research Institute)
- Development of export quality ,high yielding white seeded varieties in sesame (CU-ICAR)
- Breeding charcoal root rot tolerant high seed and oil yielding lines in sesame .
- Genetics of seed coat colour and tagging of molecular markers to seed colour through analysis of physiological path way of anthocyanin .
- Plants adaptation to stress environments (biotic and abiotic) in rice and sesame.
- Vegetable breeding and molecular characterization of genotypes, QTL mapping in horticultural crops
- Evolving mechanism and types tolerant to Arsenic in rice and sesame (CU-Aberdeen) .
- Tagging of DNA molecular markers in rice and sesame for character selection and breeding
- QTL mapping, linkage map construction and association mapping for desired traits in rice and sesame

Techniques known

- Plant Breeding methods including mutation breeding, selection, hybridization etc.
- Expertise in Biometrical Genetics
- Varietal development for agricultural and horticultural crops
- Genomic DNA library construction
- Statistical software Minitab, Mstat , R, Mapmaker, QTL cartographer etc.
- PCR and RT PCR, primer design, linkage map construction, QTL mapping
- Bioinformatics
- Gene silencing

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PhD students:

- Already supervised 15 scholars, who have been awarded Ph.D. degree
- One scholar is in the final phase of thesis submission.
- 7 scholars are working under me for Ph.D degree in different projects.

M.Sc. (Ag.) students

- Guided more than 50 students in M.Sc (Ag.) dissertation work.

Post-doctoral Fellow

- One under DST program, Govt. of India.

Current and recently completed projects

Directorate of Agriculture, Govt. of West Bengal funded project on” Screening of bread wheat varieties in boron deficient soil of North Bengal” (1991-1994) (Co-PI)

Dept. of Science & Technology, Govt. of West Bengal funded project with Prof. Pranab Hazra (BCKV) on” Adaptability and improvement of cowpea in West Bengal” (1993-1996) (PI)

ICAR funded project on “Screening of cotton germplasms for saline tracts of sunderban” (1994-1997) (Co-PI)

Dept. of Science & Technology, Govt. of West Bengal funded project on “Genetic Resources of Horse gram: Its collection, evaluation and Improvement” (2001-2004) (PI)

Permanent Project in Calcutta University funded by State Govt. on “ Crop Breeding Research Unit “ with 2 fellows and one scientist , 2001- (PI)

Dept. of Food Processing and Horticulture , Govt. of West Bengal funded project on “ Diversity of local germplasms and identification of pure hybrid seeds in okra, chilli, tomato by molecular markers “ (2007-2009) (PI)

BBSRC-DFID (UK) funded International Project with University of Aberdeen and Rothamsted Institute (UK)- Chinese Academy of Science- Bangladesh Agricultural University on” Arsenic Tolerance mechanism in rice” 2007-2011. (Co-PI)

Edible Agro,India funded project on “ Sesame Improvement” 2008-2011 (PI)

Department of Science and Technology (W.B.) funded project on” Collection, characterization and genetic improvement of indigenous short grained aromatic rice in west Bengal with special emphasis to cooking qualities and yield.”2009-2012. (PI)

RKVY , Govt. of India mission project, sponsored by Govt. of West Bengal “Screening low arsenic genotypes in paddy , mustard, sesame, lentil and role of phosphates, silica, selenium in arsenic tolerant mechanism “ 2009-12. (PI)

Department of Atomic energy- UGC consortium research funded project on "Radiation induced mutation of wheat seeded sesame for developing early duration high yielding lines adaptable to agro-climatic condition of West Bengal" 2009-2013. (PI)

University Grant Commission sponsored major project on "Genetic divergence among genotypes and linkage map construction in sesame" 2012-2016. (PI)

All India Coordinated Research Program on Sesame and Niger (ICAR), Net Work Program having 3 scientists positions and 3 technical staff. It has been allotted to us by ICAR in 2015 for our outstanding performance in sesame breeding . (Principal Investigator)

Hybrid Rice Consortium Partner , International Rice Research Institute, Manila, Philippines from 2015-onwards.

Department of Science and Technology , Govt of West Bengal sponsored project on " Restructuring rice genotypes for high yield, early duration, high iron and zinc content through advanced plant breeding techniques" 2015-18 (PI)

ICAR sponsored program project under Technology component entitled " Improving hybridization efficiency and seed set in paddy" along with Directorate of Rice Research, Hyderabad and University of Agricultural Science, Bangalore 2015- 2019 (Nodal Officer of the program and PI, CU).

External Activity

Expert, Tea Research Association , Tocklai , Assam, in Plant Breeding and Biotechnology
External Member, Board of Studies, Palli Shiksha Sadan, Srineketan, Viswa Bharati , West Bengal (2012-2016)

External Expert in central Sericulture Board, Behrampore, West Bengal

Ph. D. thesis Examiner, Bidhan Chandra Krishi Viswavidyalaya (West Bengal) , UBKV, (West Bengal) , Viswa Bharati , Shantiniketan, Banaras Hindu University .

Examiner, Dept. of Botany , University of Kalyani, BCKV, UBKV, OUAT .

Expert, Forestry genetics, in Forest Research Institute(Dehra Dun),India

Examiner, Ph.D. thesis evaluation, Rajshahi University,Dhaka University Bangladesh, and Universiti Putra Malaysia , Malaysia

Administrative responsibility at Calcutta University

Director, Institute of Agricultural Science (2012-15), CU

Member, Calcutta University Senate (2012-2015)

Head, Dept. of Genetics and Plant Breeding (2001- 2009,2011-2015) .

Head, Dept. of Agricultural chemistry and Dept of Plant Physiology (2012-2015) .

Convener , Ph.D. Committee , Dept. of Genetics and Plant Breeding (2004- 16)

Member, Ph.D. committee, Dept. of Seed Science and Technology (2004-)

Member, Advisory committee , Dept. of Genetics , Faculty of Science (2009-2013)

Achievements/Awards

A/ Developed varieties

- Two Vegetable cowpea varieties, **Bidhan Barbati 1** and **Bidhan Barbati 2** at BCKV in 1994
- Two newly developed sesame varieties, **CUMS 17** and **CUHY-57** with high yield (>1.5 t/ha) and high oil content (50%) have been identified for varietal release . The Variety **Suprova (CUMS17)** has ranked top in ICAR trials consistently in all Indian locations for 3 years and is in the process of release by Central Varietal Release Committee (ICAR) by May,2017.
- Three more varieties of sesame are in the process of testing and evaluation .
- The rice varieties **Gotra Bidhan Mutant** with high yield and lodging tolerance (125 duration) and **CU 48** , cold tolerant variety are in ICAR trial.
- One hybrid rice entry in International Hybrid Rice Trial (2017) of IRRI

C/ First report on arsenic tolerant gene in rice (Published in New Phytologist)

D/ **Marie-Curie** International Fellowship by **European commission** for “ Low Arsenic Grain Rice” (2009-12) at University of Aberdeen, Scotland, UK .

E/ Selected as **Local Secretary** of Sectional President (Agriculture and Forestry) in 100 years Celebration of Indian Science Congress Association held at Calcutta University, on 3rd January 2013

F/ **Fellow** , West Bengal Academy of Science and Technology (WAST), India in 2013 for significant contribution in Genetics and Plant Breeding.

G/ **Fellow**, Indian Society of Genetics and Plant Breeding , New Delhi ,1995

Publications

A/ Total publications in research journals

1. **T. Dasgupta** and P. K. Das .1980. Studies on selection for higher yield in durum wheat(*Triticum durum*) under late sown rainfed condition in of West Bengal . *Indian Agriculturist* , vol. 24(1) : 11 - 22 (NAAS rating : **4.11**;)
2. **T. Dasgupta** and P. K. Das.1982 . D² analysis, phenotypic stability and varietal adaptability in bread wheat . *Bangladesh Journal of Botany* , vol.11(2) : 124 - 131 (NAAS rating : **6.38** ; IF : **0.301**; citation : 1)

3. **T. Dasgupta** and P. K. Das.1984 . Yield component analysis and selection indices in blackgram. *Indian Agriculturist*, vol.28 (3) : 191 - 198 . (**NAAS rating : 4.11**)
4. **T. Dasgupta** and P. K. Das.1984. Genetic divergence in wheat .*Egyptian Journal of Genetics and Cytology*, vol. 13: 53-60 . (**Citation : 3**)
5. **T. Dasgupta** and P. K. Das.1984. Multivariate analysis and selection of parents for hybridization in blackgram . *Phillippine Agriculturist* , vol. 44(**1**): 86 -92 . (**Citation : 21**)
6. **T. Dasgupta** and P. K. Das . 1984 . Multivariate analysis in blackgram . *Indian Journal of Genetics and Plant Breeding* , vol.44 (**2**) : 241 -47 (**NAAS rating : 6.19; citation :)**)
7. **T. Dasgupta** and P. K. Das. 1985 .Gene pool divergence and selection of stable parents in blackgram .*Bangladesh Journal of Agricultural Research* , vol.101 (1) : 9 -15 .
8. **T. Dasgupta** , A. B. Mondal and T. G. Choudhury . 1986 . Combining ability and heterosis in similar leaf mutants in jute .*Phillippine Agriculturist* , vol.69 (1) : 107 –111.
9. **T. Dasgupta** and P. K. Das.1987 .Yield attributes and ideal plant type in blackgram . *Bangladesh Journal of Botany* , vol.15 (2) : 143 - 149 . (**NAAS rating : 6.38**)
10. **T. Dasgupta** and P. K. Das. 1987 . Inheritance of pod length and cluster number in blackgram .*Indian Journal of Agricultural Sciences* , vol.57 (1) : 50 -52 (**NAAS rating : 6.00 ; Citation : 1**)
11. **M. O. Islam** , T. Dasgupta ,P. Gayen and S. Sen. 1987 .Studies on seedling root characters in chickpea .*Annals of Agricultural Research* , vol.8 (2) : 280 - 284 .
12. **T. Dasgupta** and P. K. Das. 1987 . Genetics of yield in blackgram . *Indian Journal of Genetics and Plant Breeding* , vol.47 (3) : 265 -270 (**NAAS rating : 6.19 ; Citation : 5**)
13. M. O.Islam , S. Sen and **T. Dasgupta**.1987.Seedling root length and seedling root number in mungbean .*TVIS NEWS (AVRDC)* , vol. 2(2) : 17-18 .
14. **T. Dasgupta** and P. K. Das. 1987 . Inheritance of grain filling in bread wheat . *Annals of Agricultural Research* , vol.10 (3) : 237 -242 .
15. **T. Dasgupta** and A. B. Mondal . 1988 . Diallel analysis in wheat . *Indian Journal of Genetics and Plant Breeding* , vol.48 (2) : 167 -170 . (**NAAS rating : 6.19; citation : 12**)
16. **T. Dasgupta** , O. Islam K . Sarkar and P . Gayen.1987 . Genetic divergence in chickpea . *Experimental Genetics* , vol.3 : 15-21 . (**Citation : 9**)

17. **T. Dasgupta** and A. B. Mondal.1988 .Combining ability for kernel weight in bread wheat under acid soil . *Bangladesh Journal of Botany* , vol.17 (2) : 201-203 . (**NAAS rating : 6.38; IF : 0.301**)
18. H. A. van Rheenen and **T. Dasgupta**.1990. Efficiency of duplicated augmented design in International Chickpea Screening Nurseries . *Indian Journal of Pulses Research* , vol.3 (2) : 103-106 .
19. **T. Dasgupta** and P. K. Das.1991.Genetic divergence in blackgram *Indian Journal of Agricultural Research* , vol.25 (1) : 7-13 .
20. **T. Dasgupta** and P. K. Das. 1991 .Combining ability for branch number and seed per pod in blackgram . *Indian Journal of Pulses Research* , vol.4 (2) : 141 -145 .
21. P. Gayen , P. Roychowdhury , **T. Dasgupta** and S. Dana.1991.Variability and correlation studies of some characters of pod and seed in mungbean . *Annals of Agricultural Research* , vol.12 (3) : 255-258 .
22. O. Singh , C. L. L. Gowda ,S.C. Sethi and **T. Dasgupta**.1992. Genetic analysis of agronomic characters in chickpea .I. Estimates of genetic variances from diallel mating designs. *Theoretical and Applied Genetics*, vol.83: 956-962 . (**NAAS Rating : 9.51 ; IF : 3.90 ;Citation : 25**)
23. **T. Dasgupta** M. O. Islam , and P. Gayen. 1992. Genetic variability and yield component analysis in chickpea . *Annals of Agricultural Research* , vol.13: 157-160 (**Citation : 31**).
24. P. Gayen , P. Roychowdhury , **T. Dasgupta** and S. Dana. 1992 . Studies on some physical characters of primary leaf in mungbean .*Crop Research*, vol.5 (3) : 579 -588 .
25. **T. Dasgupta** , G. Dey , P. Gayen , S.K. Mondal and S. Dutta. 1992 . Combining ability for harvest index in mungbean . *Experimental Genetics*, vol.8: 1-4 .
26. O. Singh , C. L. L. Gowda ,S.C. Sethi , **T. Dasgupta** , J. Kumar and J. B. Smithson.1993.Genetic analysis of characters in chickpea .II.Estimates of genetic agronomic variance from line x tester mating design .*Theoretical and Applied Genetics*, vol.85 : 1010-1016 (**NAAS Rating : 9.51 ; IF: 3.90 ; Citation : 9**).
27. H. A. van Rheenen ,**T. Dasgupta** , G. Swaminathan and J.H. Miranda.1994. The use of duplicated augmented design in chickpea line trials . *Annals of Agricultural Research* , vol.15 (1) : 1 - 7 .
28. N. Kar , **T. Dasgupta** , P. Hazra and M.G. Som. 1995. Association of pod yield and its components in vegetable cowpea . *Indian Agriculturist* , vol. 39(4) : 231 -238 . (**NAAS rating : 4.11; Citation : 6**)

29. N. Kar , **T. Dasgupta** , P. Hazra and M.G. Som. 1995.Study on ideal picking date in vegetable cowpea .*Vegetable Science*, vol.22 (2) : 92-94 .
30. J.Kumar , K.B. Singh , R.S. Malhotra, J.H. Miranda and **T. Dasgupta**.1996.Genotype environment interaction for seed yield in chickpea .*Indian Journal of Genetics and Plant Breeding* , vol.56 (1) : 69-78 . (NAAS rating: 6.19; citation : 12)
31. A.Chattopadhyay , K. Chacraborty , **T. Dasgupta** and M.G. Som . 1996 .Evaluation of genotypes for agronomic and morphological characters in vegetable cowpea. *Indian Journal of Horticulture* , vol.53 (4) : 304-8 . (NAAS rating : 6.11 ; Citation : 3)
32. A.Chattopadhyay , K. Chacraborty , **T. Dasgupta** and M.G. Som.1996. Genetic analysis of pod yield and its three important components employing a diallel cross in cowpea . *Vegetable Science* , vol.23 (1) : 69-74 .
33. A.Chattopadhyay , K. Chacraborty , **T. Dasgupta** and M.G. Som.1997. character association and path analysis in vegetable cowpea . *Madras Agricultural Journal* , vol. 84(3) : 153-56. (Citation : 12)
34. A.Chattopadhyay , K. Chacraborty , **T. Dasgupta** and M.G. Som.1997. Estimation of genetic parameters in parental , F₁ and F₂ generations of cowpea (*Vigna unguiculata* L.). *Indian Agriculturist* , vol.41: 49-53. (NAAS rating 4.11)
35. S. Das and **T. Dasgupta**.1997 . *In vitro* callus induction and its maintenance in *Sesamum indicum* L. var. RT-4, *Indian Biologist* vol. 29 (2) : 21-24 .
- 36 **T. Dasgupta** and S.Das.1998. Combining ability in mungbean .*Indian Journal Of Pulses Research* , vol.11 (1) .
37. T. Dasgupta , S.Biswas and S.Das.1998. Character association of yield in chickpea. *Indian Agriculturist* , vol.42 (3) : 147-153 . (NAAS rating 4.11).
38. S. Das and **T. Dasgupta** . 1999. Combining ability in sesame . *Indian Journal of Genetics and Plant Breeding* vol. 59(1) : 69-75 . (NAAS rating : 6.19).
- 39 J. Mandal, A. Chattopadhyaya, P. Hazra, **T. Dasgupta** and M.G. Som. 1999. Genetic variability for three biological nitrogen fixation components in Cowpea .*Crop Research* , vol 18(2) : 222-225. (Citation : 5).
- 40 A. Chattopadhyaya, P. Hazra, **T. Dasgupta** and M.G. Som.1999. Nodulating behaviour of Cowpea_ A Review. *Journal Interacademicia* , Vol 3: 385-90.
- 41 A.Chattopadhyay, **T. Dasgupta**, P. Hazra and M.G. Som.2000. Nodulation characters and their relationship with pod yield and pod protein content in cowpea. *Annals of Agriculture Research* vol 21(1): 140-42.

- 42 Indrani Dana and Tapash Dasgupta.2001. Combining ability in blackgram. *Indian J of Genetics and Plant Breeding* 61(2): 170-171 (NAAS rating : 6.28; citation : 6).
- 43 Basumita Roychoudhury and **T. Dasgupta** 2002. Yield component analysis in Mungbean *Indian Agriculturist* vol.46(1&2) : 73-78 (NAAS rating : 4.11).
44. N. Moitra, B. Roychoudhury, N. Mondal and **T. Dasgupta**. 2003. The pattern of accumulation of storage protein during the development of urdbean (*Vigna mungo*) seeds . *Indian Biologist* , vol.35(1) : 29-32.
45. A. Chattopadhyaya, P. Hazra, **T. Dasgupta** and Subhadeep Nath. 2003. Heterosis studies in cowpea cultigroup. *The Horticulture Journal*, vol.16(2): 49-54.
46. **T.Dasgupta** and M.Singh 2003. Diversity in advanced breeding lines of Chickpea. *International Chickpea and Pigeonpea Newsletter (ICRISAT) ICPN* 10: 38-41 (Citation : 7).
47. **Tapash Dasgupta**, S. Hossain, Andrew Meharg and Adam Price. 2004. An arsenate tolerance gene on chromosome 6 of rice. *New Phytologist* 163: 45-49. (NAAS Rating : 12.37 ; IF : 7.21 ;Citation : 63, NCBI Pubmed). DOI: [10.1111/J.1469-8137.2004.01109.X](https://doi.org/10.1111/J.1469-8137.2004.01109.X)
48. **T. Dasgupta**, K. Mukherjee, Basumita Roychoudhury and D. Nath. 2004.Genetic divergence in horsegram. *Legume Research* Vol. 28(3): 166-171. (NAAS rating : 6.15 ; Citation : 1).
- 49 Tamina Begum and **T. Dasgupta** .2005. Character association in sesame. *Indian Agriculturist* 47: 253-258. (NAAS rating : 4.11 ; citation :9)
- 50 D. Nath, B. Roychoudhury and **T.Dasgupta**.2005. Genetic Divergence in some cultivated and wild species of *Vigna*. *Indian Agriculturist* Vol: 49 : 27-32 (NAAS rating 4.11)
- 51 T. Begum and **T.Dasgupta**.2005. Gamma ray and EMS induced chlorophyll mutation in sesame. *Sesame and Safflower Newsletter* (FAO) . No. 20: 48-52.
- 52 T. Begum, B. Roychowdhury and **T. Dasgupta**.2005. Study of Genetic divergence of some varieties of sesame by SDS PAGE for seed storage protein. *Bangladesh Journal of Genetics and. Biotechnol.* Vol.6 : 11-14.
53. B. RoyChowdhury, D. Nath, K. Bagchi, N. Mondal and **T. Dasgupta** . *In-vitro* screening of some germplasms of *Vigna* under salinity condition. *Bangladesh Journal of Genetics and Biotechnol.* Vol.6 : 37-40.
- 54 T.Begum and **T. Dasgupta** .2006. Effect of Ethyl Methane Sulphonate in segregating population in sesame (*Sesame indicum L.*) *Bangladesh Journal of Genetics and Biotechnol.* Vol6:1-3.

55. D. Nath, B. RoyChowdhury, **T. Dasgupta** and N. Mondal. 2005. Diversity of mungbean germplasms through seed protein polymorphism by SDS PAGE. *Bangladesh Journal of Genetics and Biotechnol.* Vol. 6 : 15-17.
- 55 M. Das, A.K. Das and **T. Dasgupta**. 2007. Association between yield and yield components in short duration Pigeonpea. *Indian Agriculturist.* Vol: 51(3&4) : 173-176.
57. Gareth Norton, Meher Nigar, Paul Williams, **Tapash Dasgupta**, Andy Meharg and Adam H Price. 2008. A three gene model for arsenate tolerance in rice. *Journal of Experimental Botany*, Vol.59 , No. 8 : 2277-2284. (**NAAS rating : 11.79 ; IF : 5.36; citation : 21: NCBI Pubmed**). DOI: [10.1093/JXB/ERN098](https://doi.org/10.1093/JXB/ERN098)
58. Rakshit, S. Rakshit, A. Deokar and **T. Dasgupta**. 2008. Effect of different explant and hormones on *in vitro* callus induction and regeneration of Pepper (*Capsicum annuum L.*). *Asian Journal of Biological Science.* 3(1): 180-183.
59. S. Chakraborty, D. Mukherjee and **T. Dasgupta** . 2008. Cytological study on chromosome behaviour and new report on nature of mode of pollination of *Swertia chirayita* , a high value endangered medicinal plant of North Eastern Himalayan region. *Caryologia* , 61 (4): 1-10 . (**NAAS rating : 6.85**).
60. Gareth J Norton, Guilan Duan, **Tapash Dasgupta**, M Rafiqul Islam, Ming Lei, Yongguan Zhu, Claire M Deacon, Annette C Moran, Shofiqul Islam, Fang-Jie Zhao, Jacqueline L Stroud, Steve P McGrath, Joerg Feldmann, Adam H Price and Andrew A Meharg. 2009. Environmental and Genetic Control of Arsenic Accumulation and Speciation in Rice Grain: Comparing a Range of Common Cultivars Grown in Contaminated Sites Across Bangladesh, China, and India. *Environmental Science and Technology.* **43**(21):8381-8386. (**NAAS Rating : 11.48 ; IF : 5.39; Citation : 109 ; NCBI Pubmed**). DOI: [10.1021/ES901844Q](https://doi.org/10.1021/ES901844Q)
61. Gareth Norton, **Tapash Dasgupta**, M. Rafiqul Islam, Shofiqul Islam, Claire M. Deacon, Fang-jie Zhao, Jacqueline L. Stroud, Steve P. Mcgrath, Joerg Fieldman, Adam H. Price and Andrew A. Meharg. 2010. Arsenic influence on genetic variation in grain trace- elements nutrient content in Bengal delta grown rice. *Environmental Science and Technology.* **44** : 8284-8288. (**NAAS Rating : 11.48 ; IF : 5.39; Citation : 19; NCBI Pubmed**). DOI: [10.1021/ES101487X](https://doi.org/10.1021/ES101487X)
62. Tamina Begum and Tapash Dasgupta .2010. A comparison of the effects of physical and chemical mutagens in sesame (*Sesamum indicum L.*). *Genetics and Molecular Biology* , **33 (4) :761-66**. (NAAS Rating : 6.88 ; IF : 1.341; Citation : 13 ; NCBI Pubmed).
63. Tamina Begum and Tapash Dasgupta. 2011. Effect of mutagens on character association in sesame (*sesamum indicum l.*) *Pakistan Journal of Botany* , 43(1) : 243-251(**NAAS Rating :7.21; IF : 0.658; Citation : 10**).

64. JL Stroud,, AM Khan, GJ Norton, MR Islam, **Tapash Dasgupta**, YG Zhu, AH Price, AA Meharg, SP McGrath, FJ Zhao. 2011. Assessing the labile arsenic pool in contaminated paddy soils by isotopic dilution techniques and simple extractions. *Environmental Science and Technology* 45 : 4262-4269 (**NAAS Rating : 11.48 ; IF: 5.39; Citation : 39 ; NCBI Pubmed**).
65. JL. Stroud, G, Norton,, MR Islam, **T Dasgupta**, RP White, AH Price, AA Meharg, SP McGrath and F-J. Zhao 2011. The dynamics of arsenic in four paddy fields in the Bengal delta. *Environmental Pollution* 159 : 947-953 (**NAAS Rating : 9.90 ; IF: 5.00; Citation : 54; NCBI Pubmed**).
66. A Rakshit, S Rakshit and **Tapash Dasgupta** .2011. Differential Callusing response in Chilli (*Capsicum annum L.*). *Journal of Plant Science Research* 27(2) : 117-122.
67. A H Price, G Noton, D Salt, O Ebenhoeh, A A Meharg, C Meharg, M Rafiqul Islam, R N Sarma, **T Dasgupta**, A M Ismail, K L McNally, H Zhang, I C Dodd and W J Davies.2013. Alternate wetting and drying irrigation for rice in Bangladesh : Is it sustainable and has plant breeding something to offer ? *Food and Energy Security (UK) Wiley publn*, 2 (2) : 120-29 (**IF : NA; Google Citation: 16**) DOI: [10.1002/FES3.29](https://doi.org/10.1002/FES3.29)
68. A A Meharg, G Norton, C Deacon, P William, E Adomako, A Price, Y Zhu, G Li, S Mcgrath, A Villada, A Sommella, P Mangala, CS De Silva, H Brammer, **T Dasgupta**. 2013. Variation in rice cadmium related to human exposure. *Environmental Science and Technology* 47 : 5613-5616. (**NAAS Rating : 11.48 ; IF: 5.39 ;Citation : 73; NCBI Pubmed**) DOI: [10.1021/ES400521H](https://doi.org/10.1021/ES400521H)
69. Biswarup Mukherjee, Pritam Das, Qadir Alam, Disharee Nath and **Tapash Dasgupta** . 2013 . Molecular characterization of rice genotypes using microsatellite markers. *Oryza* 50(1) : 35-40.
70. Pritam Das, Chand Kumar Santra, Sankar Mukhopadhyay, Biswarup Mukherjee and **Tapash Dasgupta** .2013 .Genetic variability of cytoplasmic male sterile lines in rice (*Oryza sativa L.*). *Journal of Agriculture and Veterinary Science* 3 (5) : 95-100. (**Citation : 1**) .
71. Biswarup Mukherjee, Pritam Das, Tathagata Roy Chaudhuri and **Tapash Dasgupta** .2013. Characetrization of arsenic contaminated rice (*Oryza sativa L*) through RAPD markers. *Journal of Agriculture and Veterinary Science* 5 (1) : 10-14.
72. Disharee Nath and **Tapash Dasgupta**. 2013. Genotype x environment interaction and stability analysis in mungbean. *Journal of Agriculture and Veterinary Science* 5 (1) : 67-70.
73. Pritam Das, Biswarup Mukherjee, Chand Kumar Santra, Sankar Mukhopadhyay and **Tapash Dasgupta** . 2013. Evaluation of genotypes for fertility restoring and maintain

- behavior in rice (*Oryza sativa* L.). *International Journal of Scientific and Technology Research* 2 (11) : 228-232. (Citation: 9)
74. Sarita Kumari Pandey , Arna Das and **Tapash Dasgupta**. 2013. Genetics of seed coat colour in sesame (*Sesamum indicum* L.) . *African Journal of Biotechnology* 12(42): 6061-6067. (**Citation : 6**).
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NCBI gene-expression repository

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- Gene Bank accession no. **KT 727967 - KT727972** of sesame genomes (2015)
- Submitted Whole Genome sequence in sesame in NCBI (May,2017)

Member of Society

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- Life member, Indian Science Congress Association, Kolkata
- Member, Society of Breeding Research for Asia and Oceania
- Life member, The Agricultural Society of India
- Founder Vice-President, Association of Plant Breeding and Improvement, West Bengal

Editorial Service

- Editor, Advances in Plants and Agriculture Research (Medcrave Publications)
- Technical Editor, International journal of Agriculture, Environment and Biotechnology
- Reviewer, Acta Physiologiae Plantarum
- Reviewer, National Academy Science Newsletter (Springer), India
- Reviewer, Nucleus Journal (Springer), Legume Research, Journal of Environmental Biology, African journal of biotechnology, Jordan Journal of Biology, Spanish Journal of Agricultural Science

Research Collaboration

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- Chinsurah Rice Research Station, Directorate of Agriculture, Govt. of West Bengal
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