


NAME	Sofia Priyadarsani Das		
DESIGNATION	Assistant Professor (II)		
EMAIL ID	spdas@amity.edu		
CONTACT NUMBER	+91-9439797848		
RESEARCH INTERESTS	Molecular Genetics, Population Genetics, Whole genome sequencing, Molecular Breeding, Marker Discovery		
EDUCATIONAL QUALIFICATIONS:			
Name of College / University		Degree	
Utkal University, Odisha		Ph.D.	
Utkal University, Odisha		M.F. Sc.	
Stewart Sc. College, Cuttack		B.Sc.	
Title of Ph.D. thesis: Stock Identification of <i>Cirrhinus mrigala</i>, Mrigal (Hamilton,1822) (Pisces, Cyprinidae) using morphometrics and molecular approaches			
EXPERIENCE (in chronological order): Total 13 Years Research & Teaching			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Research Associate	Research	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha	2013-2017
DBT-BioCARE Scientist	Research	ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha	2017-2019
Assistant Professor (Grade-II)	Academics/Research	Amity Institute of Marine Science and Technology, Amity University Uttar Pradesh	2019- Continuing
No. of Ph.D. students supervised		NA	
No. of Post-Doc		NA	
No. of M.Sc. Students supervised:		Nil	
No. of B.Sc. Students supervised:		Four	
PUBLICATIONS (24)	<ol style="list-style-type: none"> Das, S.P., Swain, S.K., Sahoo, L., Jena, J.K., & Das, P. (2021). Single Genetic Stock Revealed by Microsatellite Markers among Wild Populations of <i>Cirrhinus mrigala</i> from Peninsular India. Turkish Journal of Fisheries and Aquatic Sciences, 21, 425-433. http://doi.org/10.4194/1303-2712-v21_9_01. (Impact Factor – 0.957) (Nass rating: 6.87) Basdeo Kushwaha, Manmohan Pandey, Paramananda Das, Chaitanya G Joshi, Naresh S Nagpure, Ravindra Kumar, Dinesh Kumar, Suyash Agarwal, Shreya Srivastava, Mahender Singh, Lakshman Sahoo, Pallipuram Jayasankar, Prem K Meher, Tejas M Shah, 		

Ankit T Hinsu, Namrata Patel, Prakash G. Koringa, **Sofia P. Das**, Siddhi Patnaik, Amrita Bit, Mir A. Iquebal, Sarika Jaiswal, Joykrushna Jena. (2021) The genome of walking catfish *Clarias magur* (Hamilton, 1822) unveils the genetic basis that may have facilitated the development of environmental and terrestrial adaptation systems in air-breathing catfishes, *DNA Research*, , dsaa031, <https://doi.org/10.1093/dnares/dsaa031>.

(Impact Factor – 5.281) (Nass rating: 10.01)

3. **Das S. P.**, Das R. R. (2020) Genomic variation studies of COVID-19 sequences from India. *International journal of creative research thoughts* 8: 6, 2320-2882.
4. Das P., Sahoo L., **Das S. P.**, Bit A., Joshi C. G., Kushwaha B., Kumar D., Shah T. M., Hinsu A.T., Patel N., Patnaik S., Agarwal S., Pandey M., Srivastava S., Meher P.K., Jayasankar P., Koringa P.G., Nagpure N.S., Kumar R., Singh M., Iquebal M. A., Jaiswal S., Kumar N., Raza M., Das M. K., Jena J.K. (2020) De novo Assembly and Genome-Wide SNP Discovery in Rohu Carp, *Labeo rohita*. *Frontiers in Genetics*. DOI=10.3389/fgene.2020.00386. **(Impact Factor – 3.517) (Nass rating: 9.52)**
5. C. Haldar, **S. P. Das**, B. R. Pillai, A. Pavan-Kumar, P. Gireesh-Babu, P. Das, A. Chaudhary (2019). Single-nucleotide polymorphisms linked to body weight revealed in growth selected *M. rosenbergii*. *Aquaculture International*. DOI: 10.1007/s10499-018-0334-3 **(Impact Factor- 1.455) (NAAS rating- 7.46)**
6. **Das, S. P.**, Swain, S., Jena, J. K. & Das, P. (2017). Genetic diversity and population structure of *Cirrhinus mrigala* revealed by mitochondrial ATPase 6 gene. *Mitochondrial DNA Part A* 29:4, 495-500. **(Impact**

Factor- 0.566) (NAAS rating- 7.07)

7. **Sofia P. Das**, Subrat K. Swain and Paramananda Das (2016). Application of traditional and molecular markers for stock identification. *Pranikee- Journal of Zoological society of Orissa*, XXVIII: 01-20 (NAAS rating- NIL)
8. Sudip K. Mohanta, Subrat K. Swain, **Sofia P. Das**, Amrita Bit, Gargee Das, Sanghamitra Pradhan, Jitendra K. Sundaray, P. Jayasankar, A. S. Ninawe and P. Das (2016) Complete mitochondrial genome sequence of *E. suratensis* revealed by next generation sequencing. *Mitochondrial DNA Part B: Resources* 1(1): 746-747. **(Impact Factor- 0.561) (NAAS rating- 6.89)**
9. **Sofia P. Das**, Amrita Bit, Siddhi Patnaik, L. Sahoo, P. K. Meher, P. Jayasankar, T. M. Saha, A. B. Patel, Namrata Patel, P. Koringa, C. G. Joshi, Suyash Agarwal, Manmohan Pandey, Shreya Srivastava, B. Kuushwaha, Ravindra Kumar, N. S. Nagpure, M. A. Iquebal, Sarika Jaiswal, Dinesh Kumar, J. K. Jena and P. Das (2015) Low-depth shotgun sequencing resolves complete mitochondrial genome sequence of *Labeo rohita*. *Mitochondrial DNA* 27(5):3517-8. **(Impact Factor- 0.561) (NAAS rating- 6.89)**
10. B. Kushwaha, R. Kumar, S. Agarwal, M. Pandey, N.S. Nagpure, M. Singh, S. Srivastava, C.G. Joshi, P. Das, L. Sahoo, P. Jayasankar, P.K. Meher, T.M. Shah, A.B. Patel, N. Patel, P. Koringa, **S. P. Das**, S. Patnaik, A. Bit, Sarika, M.A. Iquebal, D. Kumar and J.K. Jena (2015) Assembly and variation analyses of *Clarias batrachus* mitogenome retrieved from WGS data and its phylogenetic relationship with other catfishes. *Meta Gene*. 5:105–114. **(Impact Factor- 0.625) (NAAS rating- NIL)**
11. L. Sahoo, S. Kumar, **S. P. Das**, S. Patnaik, A. Bit, J. K.

Sundaray, P. Jayasankar and P. Das (2015) Complete mitochondrial genome sequence of *Heteropneustes fossilis* obtained by paired end next generation sequencing. Mitochondrial DNA 27(4): 2485-2486. **(Impact Factor- 0.561) (NAAS rating- 6.89)**

12. S. P. Das, S. Swain, D. Bej, P. Jayasankar, J. K. Jena and P. Das (2015) Length–weight relationships of four Cyprinid species in India. Journal of Applied Ichthyology 31:583–584. **(Impact Factor- 0.877) (NAAS rating- 6.61)**

13. L. Sahoo, B. P. Sahu, S. P. Das, S. Swain, D. Bej, A. Patel, P. Jayasankar and P. Das (2014) Limited genetic differentiation in *Labeo rohita* (Hamilton1822) populations as revealed by microsatellite markers. Biochemical Systematics and Ecology 57: 427–431. **(Impact Factor- 1.127) (NAAS rating- 7.09)**

14. L. Sahoo, S. K. Swain, D. Bej, S. P. Das, P. Jayasankar and P. Das (2014) Complete mitochondrial genome sequence of *L. fimbriatus*. Mitochondrial DNA. 27 (6):4019-4020. . **(Impact Factor- 0.561) (NAAS rating- 6.89)**

15. S. Swain, S. P. Das, D. Bej, L. Sahoo, P. Jayasankar and P. Das (2014) Genetic variation in *Labeo fimbriatus* (Cypriniformes: Cyprinidae) populations as revealed by partial cytochrome *b* sequences of mitochondrial DNA. Mitochondrial DNA, 27(3):1986-1990. **(Impact Factor- 0.566) (NAAS rating- 7.07)**

16. S. P. Das, D. Bej, S. Swain, C. K. Mishra, L. Sahoo, J. K. Jena , P. Jayasankar and P. Das (2013) Population divergence and structure of *Cirrhinus mrigala* from peninsular rivers of India, revealed by mitochondrial cytochrome *b* gene and truss morphometric analysis. Mitochondrial DNA, 25(2): 157-164. **(Impact Factor-**

0.566) (NAAS rating- 7.07)

17. **S. P. Das**, D. Bej, S. Swain, P. Das, B. K. Chaudhary, J. K. Jena, P. Routray, S. K. Swain, P. C. Das and P. Jayasankar (2013) Comparative and evolutionary analysis of mitochondrial genes in Indian major carps. *Biochemical Systematics and Ecology* 47:56–73. **(Impact Factor- 1.127) (NAAS rating- 7.09)**
18. D. Bej, **S. P. Das**, S. Swain, P. Jayasankar and P. Das (2013). Utility of mitochondrial ATPase 8 gene sequence in identification of carps. *Journal of Aquaculture*. 21: 9-17. (NAAS rating- NIL)
19. S. Swain, **S. P. Das**, D. Bej, A. Patel, P. Jayasankar, B. K. Chaudhary, J. K. Jena, P. Routray, S. K. Swain, P. C. Das, W. S. Lakra and P. Das (2013) Genetic variation of *labeo fimbriatus* populations using heterologous primers. *Indian Journal of Fisheries.*, 60: 29-35. **(Impact Factor- 0.497) (NAAS rating- 6.29)**
20. **S. P. Das**, D. Bej, S. Swain, J. K. Jena and P. Das (2012). Relative age and growth of Indian major carp, *Cirrhinus mrigala*, from Peninsular rivers of India. *Journal of Aquaculture* 20: 35-43. (NAAS rating- NIL)
21. S. Swain, **S. P. Das**, D. Bej, A. Patel, P. Jayasankar, P. C. Das and P. Das (2012) Isolation and characterization of sixteen microsatellite loci for fringe-lipped carp, *Labeo fimbriatus*. *Conservation Genetics Resources* 4:913–915. **(Impact Factor- 1.154) (NAAS rating- 7.11)**
22. D. Bej, L. Sahoo, **S. P. Das**, S. Swain, P. Jayasankar, P. C. Das, P. Routray, S. K. Swain, J.K. Jena and P. Das (2012) Complete mitochondrial genome sequence of *Catla catla* and its phylogenetic consideration. *Molecular Biology Reports* 39:10347-

	<p>10354. (Impact Factor- 2.107) (NAAS rating- 7.40)</p> <p>23. D. Bej, L. Sahoo, S. P. Das, S. Swain, P. Jayasankar and P. Das (2012) Complete mitochondrial genome sequence of <i>Cirrhinus mrigala</i> (Hamilton, 1822). Mitochondrial DNA 24(2): 91-93. (Impact Factor- 0.561) (NAAS rating- 6.89)</p> <p>24. D. Bej, L. Sahoo, S. P. Das, S. Swain, P. Jayasankar, P. C. Das, P. Routray, S. K. Swain, J. K. Jena and P. Das (2012) Complete mitochondrial genome of <i>Labeo rohita</i>. Mitochondrial DNA 23(6):441-3. (Impact Factor- 0.561) (NAAS rating- 6.89)</p>
PATENTS (NA)	<i>Details:</i>
<p>RESEARCH PROJECTS Completed: (<i>1</i>) Ongoing: (<i>total no.</i>)</p>	<p>“Development of genomic resources in <i>A. testudineus</i> for breed improvement and understanding molecular mechanisms involved in hypoxia tolerance” funded by Department of Biotechnology, Govt. of India.</p>
<p>AWARDS & HONOURS/ DISTINCTIONS</p>	<ol style="list-style-type: none"> 1. Got the Young Scientist Award from Society of Fisheries and Life Sciences on 2021 2. Got the DBT-Biocare Early Career Scientist scheme on 2016. 3. Got the Dr. T. Ramaprabhu memorial Award for Best Research Scholar for the year 2015 from ICAR- Central Institute of Freshwater Aquaculture. 4. Got the AFSIB Young Scientist Award presented during the 10th Indian Fisheries and Aquaculture Forum (10ifaf) held at ICAR - NBFGR, Lucknow, India during November 12-15, 2014. 5. Best research Scholar awards for the year 2013 of ICAR - Central Institute of Freshwater Aquaculture. 6. Dr. Bikash Ranjan Mohanty memorial award for Best Research Scholar for the year 2013 in ICAR - Central Institute of Freshwater Aquaculture.

<p>GENBANK SUBMISSIONS – (More than 1585 nos.)</p>	<p>Whole Genome Sequences (2 no.s) ➤ Whole genome of <i>Labeo rohita</i> and <i>Clarias magur</i></p> <p>Whole Mitogenome Sequences (20 No.s) ➤ <i>L. rohita</i>(2), <i>C. catla</i>, <i>C. mrigala</i>, <i>L. fimbriatus</i>, <i>A. testudineus</i>, <i>C. reba</i>, <i>L. bata</i>, <i>M. aral</i>, <i>M. armatus</i>, <i>M. cavasius</i>, <i>M. seenghala</i>, <i>P. pangasius</i>, <i>P. puchellus</i>, <i>T. khudree</i>, <i>T. mosal mahanadicus</i>, <i>M. vittatus</i>, <i>H. hypophthalmus</i>, <i>H. fossilis</i>, <i>C. hircus</i></p> <p>Nucleotide Sequences (more than 1500no.s) SRA submission (3 accessions)</p>
<p>MEMBERSHIP with Professional/ Academic bodies</p>	<p>Life Member of</p> <p>Journal of Fisheries and Life Sciences</p> <p>International Peer-Reviewed Biannual Journal www.fishlifesciencejournal.com Membership code: DKM/S-47/SFLS/JFLS/579/2021</p>