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Date of Birth	1 st February, 1968
Sex	Male

Academic qualifications

1.	PhD (2006) from F/O Medical Sciences, University of Miyazaki, Miyazaki, Japan.
2.	M.Sc in Animal Biotechnology (1992) from NDRI, Karnal, Haryana, India.
3.	B.Sc. in Veterinary Science & Animal Husbandry (1990) from India.

Academic awards	<ul style="list-style-type: none"> • ICAR (India) Junior Research Fellow for M.Sc. degree program. • Japanese Government (Monbukagakusho) Scholarship for PhD degree program.
Research Experiences	<ul style="list-style-type: none"> • Cell Culture • Molecular Genetics • Chromatin Organization: Epigenetic regulations
Current Research Interests	<ul style="list-style-type: none"> • Spermatogonial stem cell (SSC) culture, characterization and gene manipulation in <i>Labeo rohita</i>, a commercially important farmed carp. • Ornamental fish transgenesis. • Identification and characterization of salinity tolerant transcripts in <i>Macrobrachium rosenbergii</i>.
Current Research Projects	<ol style="list-style-type: none"> 1. Improvement of culture conditions, characterization and elucidating underlining Oct4 mediated networking pathways for spermatogonial stem cells of <i>Labeo rohita</i>. 2. Bioprospecting of genes for anoxia tolerance in <i>Channa striatus</i> and salinity tolerance in <i>M. rosenbergii</i>.
Completed Projects	<ol style="list-style-type: none"> 1. Exploring <i>in vitro</i> culture and characterization of spermatogonial stem cells (SSCs) of Indian major carp, <i>Labeo rohita</i>.
Publications	<ol style="list-style-type: none"> 1. Robinson N., Sahoo P. K., Baranski M., Mahapatra K. D., Saha J. N., Das S., Mishra Y., Das P., Barman H. K., Eknath A. E. (2012) Expressed Sequences and Polymorphisms in Rohu Carp (<i>Labeo rohita</i>, Hamilton) Revealed by mRNA-seq. <i>Marine Biotechnology</i>, DOI 10.1007/s10126-012-9433-8. 2. Barman H. K., Patra S. K., Das V., Mohapatra S. D., Jayasankar P., Mohapatra M., Mohanta R., Panda R. P., and Rath S. N. (2012) Identification and characterization of differentially expressed transcripts in the gills of freshwater prawn (<i>Macrobrachium rosenbergii</i>) under salt stress. <i>The Scientific World Journal</i>, 2012: Article ID 149361, 11 pages. 3. Panda R. P., Barman H. K. and Mohapatra C. (2011) Isolation of enriched carp spermatogonial stem cells from <i>Labeo rohita</i> testis for <i>in vitro</i> propagation. <i>Theriogenology</i>, 76: 241-251.

4. **Barman H. K.**, Panda R. P., Mohapatra C., Swain A. & Eknath A. E. (2011) Identification of genes preferentially expressed in testis and spermatogonial cells of *Labeo rohita* by subtractive and suppressive hybridization. *Aquaculture Research* **42**:1196-1205.
5. Mohapatra C., **Barman H. K.**, Panda R. P., Kumar S., Das V., Mohanta R., Mohapatra S. D., Jayasankar P. (2010) Cloning of cDNA and prediction of peptide structure of Plzf expressed in the spermatogonial cells of *Labeo rohita*. *Marine Genomics*, **3**: 157-163.
6. **Barman H. K.**, Das V., Mohanta R., Mohapatra C., Panda R. and Jayasankar P. (2010) Expression analysis of β -actin promoter of rohu (*Labeo rohita*) by direct injection into muscle. *Current Science*, **99**: 1030-1032.
7. **Barman H. K.**, Takami Y., Ono T., Nishijima H., Shibahara K., Sanematsu F. and Nakayama T. (2008) Histone acetyltransferase-1 regulates integrity of cytosolic histone H3-H4 containing complex. *Biochem. Biophys. Res. Commn.* **373**: 624-630.
8. Anil T., Das B. K., **Barman H. K.**, Samal S. K. (2008) Genetic fingerprinting of *Aeromonas hydrophila* isolated from diseased freshwater fishes of eastern India. *E-planet* **6**: 1-6.
9. Nakayama M., Suzuki H., Yamamoto-Nagamatsu, N., **Barman H.K.**, Kikuchi H., Takami Y., Toyonaga K., Yamashita K. and Nakayama T. (2007) HDAC2 controls IgM and L-chain gene expressions via EBF1, Pax5, Ikaros, Aiolos and E2A gene expressions. *Genes to Cells* **12**: 359-373.
10. **Barman H. K.**, Takami Y., Ono T., Nishijima H., Sanematsu F., Shibahara K. and Nakayama T. (2006) Histone acetyltransferase 1 is dispensible for replication-coupled chromatin assembly but contributes to recover DNA damages created following replication blockage in vertebrate cells. *Biochem. Biophys. Res. Commn.* **345**: 1547-1557.
11. Sanematsu F, Takami Y., **Barman H. K.**, Fukagawa T., Ono T., Shibahara K. and Nakayama T. (2006) Asf1 Is Required for Viability and Chromatin Assembly during DNA Replication in Vertebrate Cells. *J. Biol Chem.* **218**: 13817-13827.

	<p>12. Barman H. K., Barat A., Yadav B. M., Banerjee S., Meher P. K., Reddy P. V. G. K. and Jana R. K. (2003) Genetic variation between four species of Indian major carps as revealed by random amplified polymorphic DNA assay. <i>Aquaculture</i> 217: 115-123.</p> <p>13. Barman H. K. and Rajput Y. S. (1994) Inhibition of mouse x mouse hybridoma growth by milk and colostrums. <i>Lait</i> 74: 473-478.</p>
<p>Book-chapters/ reviews</p>	<p>1. Kikuchi H., Barman H. K., Nakayama M., Takami Y., and Nakayama T. (2006) Participation of histones, histone modifying enzymes and histone chaperones in vertebrate cell functions. In: <i>Reviews and Protocols in DT40 Research</i>, Series: Subcellular Biochemistry, Vol. 40, Buerstedde, Jean-Marie & Takeda, Sunichi (Eds.), Springer-Verlag, Berlin.</p> <p>2. Kikuchi H., Barman H. K., Nakayama M., Takami Y. and Nakayama T. (2008) Studies on epigenetic control of B cell functions using the DT40 cell line. <i>Immunogenetics</i>, Nova Publications, (<i>In Press</i>).</p> <p>3. Barman H. K. (2004) Hybridoma Technology. In: <i>Text book of Fish Genetics & Biotechnology</i>, Reddy, P.V.G.K.; Ayyapan, S.; Thampy, D.M. & Krishna, G. (Eds.), Indian Council of Agricultural Research, New Delhi, India.</p> <p>4. Barman H. K. and Rajput Y. S. (1993) Serum-free and serum-containing media for hybridoma culture. <i>J. Sci. Industr. Res.</i> 52: 803-807.</p>

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