



**Dr. Ashis Saha**

**Senior scientist**

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| <b>Department</b>             | Fish Nutrition & Physiology Division  |
| <b>Institute/ University</b>  | Central Institute of Freshwater Aquaculture<br>( <i>Indian Council of Agricultural Research</i> )   |
| <b>Address</b>                | Central Institute of Freshwater Aquaculture<br>( <i>Indian Council of Agricultural Research</i> )<br><br>P.O. Kausalyaganga,<br>Bhubaneswar 751 002,<br>Odisha  |
| <b>Tel</b>                    | 91-674-2465446  |
| <b>Fax</b>                    | 91-674-2465407  |
| <b>Date of Birth</b>          | 19 <sup>th</sup> Jan 1973   |
| <b>Sex</b>                    | Male  |
| <b>Academic Qualification</b> | <ol style="list-style-type: none"> <li>1. Ph.D. (Animal Physiology) in 2005 from Indian Veterinary Research Institute, Izatnagar, UP, India</li> <li>2. M.Sc. (Animal Physiology) in 1997 from National Dairy Research Institute, Karnal, India</li> <li>3. B.V.Sc. &amp; A.H. in 1995 from Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, India.</li> </ol> |
| <b>Honors/ Awards</b>         | <ol style="list-style-type: none"> <li>1. ICAR Award for Outstanding Interdisciplinary Team Research 2007-2008</li> <li>2. BOYSCAST Fellowship of DST to carry out research in the area of reproduction technology for one year (May 2009 to May 2010)</li> </ol>   |

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|                                   | <ol style="list-style-type: none"> <li>3. CIFA Best Division Award 2012</li> <li>4. CIFA Best Division Award 2008</li> <li>5. Received CIFA Best Young Scientist Award for the Year 2007</li> <li>6. Special appreciation letter from Secretary DARE &amp; Director General ICAR for breakthrough in Early Breeding of Rohu during the year 2007 and 2008</li> <li>7. Special appreciation letter from Deputy Director General (FY) ICAR for the work on “Cloning of GTH and GnRH genes” during the year 2006-07</li> <li>8. Junior Research Fellowship during M. Sc. (Animal Physiology) course in 1995.</li> <li>9. Qualified in ICAR Net and ASRB examination 1997</li> </ol> |
| <b>Research Experiences</b>       | <ul style="list-style-type: none"> <li>• Molecular endocrinology</li> <li>• Reproductive biotechnology</li> <li>• Cell culture</li> </ul>  |
| <b>Current Research Interests</b> | <ul style="list-style-type: none"> <li>• Photothermal manipulation for gonadal maturation in carp.</li> <li>• Identification and characterization gonadotropin and gonadotropin receptor in Indian major carp.</li> <li>• Identification and characterization of Kisspeptin and GnRH in Indian major carp.</li> </ul>  |
| <b>Current Research Projects</b>  | <ol style="list-style-type: none"> <li>1. Molecular characterization of gonadotropin and gonadotropin receptors and their regulation during photothermal manipulation of reproduction in rohu (<i>Labeo rohita</i>)</li> <li>2. Up scaling of photothermal manipulation technique for off-season gonadal maturation in Indian major carp</li> <li>3. Screening and characterization of an efficient <math>\Delta</math>-6 Desaturase among warm freshwater fishes in India</li> </ol>  |
| <b>Completed Projects</b>         | <ol style="list-style-type: none"> <li>1. Photothermal manipulation on neuroendocrine regulated reproduction in carp, <i>Labeo rohita</i> under controlled environment.</li> <li>2. Construction and analysis of Expressed Sequence Tag libraries for rohu (<i>Labeo rohita</i>, Ham).</li> </ol>  |

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|                            | <p>3. Exploring <i>in vitro</i> culture and characterization of spermatogonial stem cells (SSCs) of Indian major carp, <i>Labeo rohita</i>.</p> <p>4. Differential hormonal gene expression during reproduction in Indian major carp, <i>Labeo rohita</i></p>   |
| <p><b>Publications</b></p> | <p><b>Saha A.</b>, Sambroni E., Bogerd J., Schulz R.W., Le Gac F., Lareyre J.J.2011. The cell context influences rainbow trout gonadotropin receptors selectivity. Proc.9<sup>th</sup> International symposium on reproductive physiology of fish during 9-14 August 2011 at Thrisur, India, pp 45-46</p> <p>S. K. Sarkar, <b>A. Saha</b>, S. Dasgupta, S. Nandi, D. K. Verma, P. Routray, C. Devaraj, J. Mohanty, N. Sarangi, A. E. Eknath and S. Ayyappan.2010. Phoothermal manipulation of reproduction in Indian major carp: a step forward for off-season breeding and seed production. Current Science, 99(7) 960-964</p> <p><b>Ashis Saha</b>, Elisabeth SAMBRONI, Florence Le Gac and Jean-Jacques LAREYRE.2009. Identification of a splice variant encoding a truncated and non functional FSH receptor in trout gonad. 3<sup>rd</sup> PHASE meeting from 7- 9 Oct.2009 at Tours, Nouzilly, France.</p> <p>S. Dasgupta, S. Nandi, <b>A. Saha</b>, D.R. Sahoo, N. Sarangi, A.E.Eknath and S.K. Sarkar. 2008. Cloning and characterization of cDNA encoding GtH beta subunits of rohu, <i>Labeo rohita</i>. Proc. 8th Indian Fisheries Forum from 22-26<sup>th</sup> Nov, 2008 at Kolkata, India, pp. 125.</p> <p>Kiruba Sankar, S. Nandi, S.K. Sarkar D.R. Sahoo, J.K.Jena and <b>Ashis Saha</b>.2008. Cloning of activin <math>\beta</math>B cDNA and it's expression in <i>Labeo rohita</i>. Proc. 8th Indian Fisheries Forum from 22-26<sup>th</sup> Nov, 2008 at Kolkata, India, pp. 135.</p> <p><b>A. Saha</b>, S. Nandi, D.R. Sahoo, A. Barat, S. Dasgupta, H.K.Barman, N. Sarangi and S.K. Sarkar . 2007. Cloning of activin encoding cDNA in Indian major carp, <i>Labeo rohita</i>. Proc. on hormone biotechnology and molecular signalling, 6th Congress of the Asia and Oceania Society for Comparative Endocrinology (AOSCE) from 10-14 Dec, 2007 at Siliguri, WB, India., pp. 158.</p> <p>S. Nandi, <b>A.Saha</b>, D.R.Sahoo, P.K.Nayak, S.K.sarkar, S.Dasgupta, P.Das, A.Barat, N.Sarangi and S.Ayyappan. 2007. Cloning and characterization of GnRH encoding cDNA in rohu. Proc. on Fisheries and aquaculture: Strategic outlook for Asia, 8th Asian</p> |

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|                                  | <p>Fisheries Forum from 20-23rd Nov, 2007 at Kochi, India, pp. 328.</p> <p>S. K. Sahoo, S.S.Giri, <b>A.Saha</b>, S.Chandra, A.K.sahu &amp; N.Sarangi.2007. Embryonic development of the spiny eel, <i>Mastacembelus aculeatus</i>(Bloch,1786). Indian J.Fish., 54(3);333-337.</p> <p>D.S.Arathy, <b>Saha Ashis</b>, G.T. Sharma, A.C.Majumdar and M.S.Chauhan.2004.Effect of specific gravity of cultured medium on <i>in vitro</i> embryo development in buffalo. <i>Reproduction, Fertility and Development</i>. 16(1-2):253 Impact factor 2.38</p> <p>Mahendra Singh, J.R.khan and <b>Ashis Saha</b>.2001. Circulatory levels of immunoglobulin in bromocryptine administered murrh buffaloes during early lactation. <i>Indian J.Anim.Res</i>.35 (1): 77-78.</p> <p><b>A.Saha</b> and M.Singh.1998.Plasma hormones, blood metabolites, milk yield and composition in early lactation of buffaloes treated with bromocryptine.<i>AJAS</i>.11 (4): 368-374. Impact factor 0.857</p> <p>Mahendra Singh, <b>Ashis Saha</b> and J.R.Khan. 1998. Metabolic hormones profile of bromocryptine treated buffaloes during early lactation.<i>Inter.J.Anim.sci</i>.13: 169-172</p> |
| <p><b><u>Lead Papers</u></b></p> | <p>Ashis Saha (2011). Photo thermal manipulation for gonadal maturation and hormonal gene expression in Indian Major Carp. In: International Brain storming meet on “Recent advances in fish reproductive physiology” on 16 August, 2011 at CIFA, Bhubaneswar.</p> <p>Ashis Saha (2011).Regulation of gonadal development in the Indian Major Carps. In: Regional Biochemical Symposium, held at NISER, Bhubaneswar on 3<sup>rd</sup> Sept. 2011</p>  |
| <p><b>Book Chapter</b></p>       | <p>P. Routray, S.N. Dash, C. Dash, P. Swain, S.D. Gupta, D.K. Verma, <b>A.Saha</b>, P. Das, N. Sarangi and B.C. Guru. (2005). Cryopreservation of embryonic stem like cells of <i>Labeo rohita</i> (Ham.) and their viability assessment. pp.182-188 In: C.Vasudevappa, Y. Basavaraju, D.Seenappa, S.Ayyappan &amp; S Ravichandra Reddy (eds.)The seventh Indian Fisheries Forum Proceedings, AFSIB Mangalore, ICAR, UAS(B),KVAFSU(B) &amp; FFT(B) India</p>  |
| <p><b>Review article</b></p>     | <p>Sukhbir Nain, <b>A.Saha</b>, A.K.Swain and A.C.Majumdar.2006. Present status of <i>in vitro</i> embryo production in buffaloes. Haryana Vet. 45:1-6</p>  |

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| <b>Popular News<br/>(published in<br/>national and local<br/>news paper)</b> | <ul style="list-style-type: none"> <li>i. Scientists breed rohu off- season. The New Indian Express, Bhubaneswar, January 30, 2008</li> <li>ii. Major breakthrough in the field of aquaculture. The Statesman, Bhubaneswar, January 26, 2008</li> <li>iii. CIFA achieves breakthrough in off-season breeding of carp. The Pioneer, Bhubaneswar, January 26, 2008</li> <li>iv. Pariksha safal shitaao janma nebe rohu . Ananda bazaar patrika, Kolkata, 2<sup>nd</sup> February 2008</li> <li>v. Dharitri, Bhubaneswar, February 13, 2008</li> </ul> |
| <b>Proceedings</b>   | <p><b>Saha, A.</b>, Rath, S.C., Mohonta, K.N., Debraj, C., Paul, B.N. and Giri, S.S. (2012). International Brainstorming Meet on Recent Advances in Fish Reproductive Physiology. Published by CIFA, Bhubaneswar</p> <p>Mohanta, K.N., Rath, S.C., <b>Saha, A.</b>, Paul, B.N., Sahoo, S.K. and Giri, S.S. (2012). Proceedings of National Workshop and Stakeholders meet on Fish Feeds. Published by ICAR, New Delhi and CIFA, Bhubaneswar.</p>  |
| <b>Patent</b>  | <p><b>Title of the Invention:</b> A method and an apparatus for developing gonadal maturity in carp (Indian Patent Application No.1689/DEL/2008 of 14.07.2008)</p>  |

