



ICAR-National Bureau of Fish Genetic Resources

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Name Sullip Kumar Majhi, Ph.D.
Designation Senior Scientist
Date of birth 14.05.1976
Professional experience 13 years
Qualification **Ph.D.** (Reproductive Biotechnology)
Post Doc. (Stem Cell & Regenerative Medicines)



Current area of Research

1. Surrogate Propagation of Fish Germlines Through Stem Cell Biotechnology.
2. Stem Cell Therapy in Teleosts.
3. Induced Pluripotent Stem Cells Application in Fish Conservation.

Area of Research

Expertise

Awards/ Recognitions

- 9 years
- Young Scientist Award
- Bharat Jyoti Award
- DBT-CREST Award on Stem Cell Research by Ministry of Science & Technology, Govt. of India
- Best Scientific Abstract Award by World Aquaculture Society (WAS), USA
- Honorary Fellowship by Indian Society for Science
- Editorial Board Member of Journal of Biology and Life Science, USA
- Editorial Board Member of International J fisheries and Aquaculture
- Editorial Board Member of International J Applied Sciences
- Editorial Board Member of IIOAB Journal
- Editorial Board Member of Theriogenology Insight
- Editorial Board Member of International J Pure and Applied Science and Technology

Publication (no.)

- Research papers : 35
- Books : 02
- Book Chapters: 10
- Popular articles : 10
- Others : 05

Important Research Publications

Sullip Kumar Majhi, Avinash Rambhau Rasal, Basdeo Kushwaha, Sudhir Raizada (2017) Heat and chemical treatments in adult *Cyprinus carpio* (Pisces cypriniformes) rapidly produce sterile gonads. Animal Reproduction Science, <http://dx.doi.org/10.1016/j.anireprosci.2017.05.015>

Sheikh Mustafizur Rahman, Carlos Augusto Strüssmann, Toru Suzuki, **Sullip Kumar Majhi**, Ricardo Shohei Hattori, Md. Ariful Alam (2017) Effects of ultrasound on permeation of cryoprotectants into Japanese whiting *Sillago japonica* embryos. Cryobiology, <http://dx.doi.org/10.1016/j.cryobiol.2017.06.003>

Majhi SK, Hattori RS, Rahman SM, Strüssmann CA (2014) Surrogate Production of Eggs and Sperm by Intrapapillary Transplantation of Germ Cells in Cytoablated Adult Fish. PLoS ONE 9(4): e95294.

Das SK, **Majhi SK** (2015) Low water temperature induces physiological stress and influence somatic growth in teleost *Channa stewartii* (Perciformes). Aquaculture Research (doi:10.1111/are.12448).

Majhi SK (2014) Surrogate fish moms and dads. Nature (Doi: 10. 1038/nindia.2014.60); Published online 28 April 2014.

Majhi SK, Chaudhary BK (2014) Elevated water temperature induce germ cell proliferation in Loach *Lepidocephalus guntea* (Hamilton): Implication for brood stock development. National Academy Science Letters 37:107-11 (DOI 10.1007/s40009-013-0208-1).

Majhi SK and Das SK (2014) Feed utilization, gonadal maturation, carcass composition and stress of the catfish, *Heteropneustes fossilis*, fed with animal viscera-based diets at varied temperatures. Proceeding of the National Academy of Sciences India Section-B. 84:83-89 (DOI: 10.1007/s40011-013-0177-7).

Majhi SK, Das SK, Rajkhowa DJ (2013) Effects of elevated water temperature on tolerance and stress in Chocolate mahseer *Neolissochilus hexagonolepis*: Implications for habitat restoration and conservation. Current Science 105:379-383.

Majhi SK and Das SK (2013) Thermal tolerance, oxygen consumption and stress response in *Brachydanio rerio* (Hamilton) and *Danio dangila* (Hamilton) acclimated to four temperatures. Turkish Journal of Fisheries and Aquatic Science 13:359-365.

Hattori RS, Murai Y, Oura M, Masuda S, **Majhi SK**, Sakamoto T, Fernandino JI, Somoza GM,

Yokota M, Strüssmann CA (2012) Y-linked amh: a TGF- β Superfamily member takes over a critical role in sex determination. *Proceeding of the National Academy of Sciences USA* 109(8): 2955-2959.

Das SK, Murmu K, Das A, Shakuntala I, Das RK, Ngachan SV and **Majhi SK** (2012) Studies on the identification and control of pathogen *Saprolegnia* in selected Indian major carp fingerlings at mid hill altitude. *J. Environ. Biol.*, 33: 545-549.

Rahman SM, Strüssmann CA, **Majhi SK**, Suzuki T, Watanabe M (2010) Efficiency of osmotic and chemical treatments to improve the permeation of the cryoprotectant dimethyl sulfoxide to Japanese whiting (*Sillago japonica*) embryos. *Theriogenology* 75(2):248-255.

Majhi SK, Hattori RS, Yokota A, Watanabe S and Strüssmann CA (2009) Germ cell transplantation using sexually competent fish: an approach for rapid propagation of endangered and valuable germline. *PLoS ONE* 4 (7): e6132.

Majhi SK, Hattori RS, Rahman SM, Suzuki T, Strüssmann CA (2009) Experimentally-induced depletion of germ cells in sub-adult Patagonian pejerrey (*Odontesthes hatcheri*). *Theriogenology* 71: 1162-1172.

Majhi SK, Hattori RS, Strüssmann CA (2009) Transplanted germ cells can colonize the gonads of sexually competent fish and produce functional gametes. *Reproduction, Fertility and development* 21 (5293): 24-26.

Rahman SM, **Majhi SK**, Suzuki T, Matsukawa S, Strüssmann CA, Takai R (2008) Suitability of cryoprotectants and impregnation protocols for embryos of Japanese whiting (*Sillago japonica*). *Cryobiology* 57: 170-174.

Rahman SM, **Majhi SK**, Suzuki T, Strüssmann CA, Watanabe M (2008) Effect of calcium chloride on the permeation of the cryoprotectant dimethyl sulfoxide to Japanese whiting *Sillago japonica* embryos. *Trans of the JSRAE* 25(3): 271-277.

Majhi SK, Das A, Mandal BK (2006) Growth performance of organically cultured grass carp *C. idella* (Val.) under mid-hill conditions of Meghalaya: North Eastern India. *Turkish Journal of Fisheries and Aquatic Science* 6: 105-108.