

Dr. Shiba Shankar Giri

Fish Nutrition and Physiology
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Education

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| Ph.D. (Animal Nutrition) 1991-1996 | Indian Veterinary Research Institute (http://www.ivri.nic.in/), Izatnagar, Bareilly, India. |
| M.V.Sc. (Animal Nutrition) 1989-1989 | Indian Veterinary Research Institute (http://www.ivri.nic.in/), Izatnagar, Bareilly, India. |
| B.V.Sc. & A.H. 1984-1989 | Orissa University of Agriculture and Technology, Bhubaneswar, India |

Professional Experience

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| Scientist Fish Nutrition and Physiology (1993 – 2001) | Fish Nutrition and Physiology Division, Indian Council of Agricultural Research (ICAR)-Central Institute of Freshwater Aquaculture (CIFA), Ministry of Agriculture and Farmers Welfare, Govt. of India, Kausalyaganga, Bhubaneswar, Odisha, India |
| Senior Scientist Fish Nutrition and Physiology (2002 – 2008) | Fish Nutrition and Physiology Division, ICAR-Central Institute of Freshwater Aquaculture (CIFA), Kausalyaganga, Bhubaneswar, Odisha, India |
| Principal Scientist Fish Nutrition and Physiology (2009 – onwards) | Fish Nutrition and Physiology Division, ICAR-Central Institute of Freshwater Aquaculture (CIFA), Kausalyaganga, Bhubaneswar, Odisha, India |
| Head of Division (2011 – 2016) | Fish Nutrition and Physiology Division, ICAR-Central Institute of Freshwater Aquaculture (CIFA), Kausalyaganga, Bhubaneswar, Odisha, India |

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| Senior Program Specialist (Fisheries) (2016-2019) | South Asian Association for Regional Cooperation- SAARC Agriculture Centre, Bangladesh Agricultural Research Campus, Dhaka, Bangladesh |
| Head of KVK (2021) | Farmers Science Centre (Krishi Vigyan Kendra), Khordha, Indian Council of Agricultural Research (ICAR)-Central Institute of Freshwater Aquaculture (CIFA), Ministry of Agriculture and Farmers Welfare, Govt. of India, Kausalyaganga, Bhubaneswar, Odisha, India |
| Head of Division (2019 - onwards) | Fish Nutrition and Physiology Division, ICAR-Central Institute of Freshwater Aquaculture (CIFA), Kausalyaganga, Bhubaneswar, Odisha, India |

Honours and Awards

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| 2021 | <i>FELLOW</i> of the National Academy of Veterinary Sciences (India) |
| 2021 | Member of Board of Editors of <i>Reviews in Aquaculture</i> (Wiley) |
| 2020 | Member of Academic Council of Bihar Animal Sciences University (BASU), Bihar, India |
| 2019 | Citation of Honour of South Asian Association for Regional Cooperation (SAARC), SAARC Secretariat, Kathmandu, Nepal |
| 2019 | Certificate of Appreciation of National Aquaculture Development Authority of Sri Lanka (NAQDA), Ministry of Agriculture, Rural Economic Affair, Livestock Development, Irrigation and Fisheries & Aquatic Resources Development, Sri Lanka |
| 2018 | Certificate of Appreciation of Pakistan Agricultural Research Council (PARC), Islamabad, Pakistan |
| 2018 | Certificate of Appreciation of Department of Livestock, Ministry of Agriculture and Forests, Royal Government of Bhutan |
| 2018 | Certificate of Appreciation of Central Fisheries Promotion and Conservation Centre, Department of Livestock Services, Ministry of Agriculture and Livestock Development, Government of Nepal |
| 2017 | Certificate of Appreciation of Bangladesh Agricultural Research Council (BARC), Government of the People's Republic of Bangladesh |
| 2016 | Managing Editor of SAARC Journal of Agriculture (SAARC) |
| 2012 | Australia Government Endeavour Award for Post-doctoral Research Fellowship recipient and worked in the laboratory of Prof. Giovanni Turchini at Deakin University, Warrnambool, Victoria, Australia |
| 2012 | ICAR-CIFA Best Division Award 2011 recipient |
| 2003 | ICAR-CIFA Best Young Scientist Award 2003 recipient |

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| 2002 | Indian National Science Academy (INSA) - Deutsche Forschungsgemeinschaft (DFG) visiting Scientist Fellowship recipient and worked under Prof. Dr. E. Pfeffer, University of Bonn, Germany |
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Personal Statement

Dr Shiba Shankar Giri (PhD) is Principal Scientist and Head of Fish Nutrition and Physiology Division and is based at the ICAR-Central Institute of Freshwater Aquaculture (CIFA), Kausalyaganga, Bhubaneswar, Odisha, India, where he earlier also held the positions of Scientist and Senior Scientist.

From 2016 to 2019, Shiba led the Fisheries Division of South Asian Association for Regional Cooperation (SAARC) as Senior Program Specialist (Fisheries) at SAARC Agriculture Centre, Dhaka, Bangladesh and has coordinated the fisheries programmes and developed policies for the South Asia regional fisheries and aquaculture. Then, from 2011 to 2016, Shiba was the Head of Fish Nutrition and Physiology Division at the ICAR-CIFA and his leadership focused on the coordination, support and facilitation of the various research activities of the division and establishment of several new facilities, National Feed Testing Referral Laboratory, Climatology Laboratory, Nutrient digestibility study wet lab facility, Laboratory of Nutrigenomics and many more, with particular focus on industry engagement, initiation of innovative projects, Trade Mark, commercialisation of research products, high quality publications and HRD (PhD and M.Sc. students supervision and administration). Also, from 2011-2016, Shiba was the Coordinator of the ICAR's Outreach Project 'Fish Feeds', and guided research in farm-made fish feeds among six ICAR research institutes across India, and under his leadership over ten feed formulae and technologies are being commercialized. Currently, since January 2019, Shiba is Head of Fish Nutrition and Physiology Division, extending his leadership in research management of fish nutrition and physiology.

As an animal nutritionist, with key interest on food quality and sustainability, Shiba's research interests span from fish to human nutrition, fatty acid metabolism, fishmeal and fish oil replacement, aquaculture, and low-cost farm-made fish feeds for aquaculture sectors. Throughout his career, Shiba has been awarded as the Fellow of the National Academy of Veterinary Sciences (India), Australian Government Endeavour Research Fellowships, INSA-DFG visiting scientist fellowship, honour and recognitions of National Governments and Academies of India, Pakistan, Bangladesh, Bhutan, Nepal and Sri Lanka, developed a series of significant industry collaborations, published extensively, including nine books, a monograph, nine policy papers and several book chapters, and his work is highly influential.

BOOKS

- ❖ S.S. Giri, S.M. Bokhtiar, S.K. Sahoo, B.N. Paul and S. Mohanty, Eds. 2019. Aquaculture of Commercially Important Finfishes in South Asia. SAARC Agriculture Centre, SAARC, Dhaka, Bangladesh, 196p. ISBN: 978-984-34-6740-9.

- ❖ S.S. Giri, S.M. Bokhtiar, B.N. Paul and S.K. Sahoo, eds., 2019. Diversification in Aquaculture: Towards achieving sustainability. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 192p. ISBN: 978-984-34-6739-3.
- ❖ S.S. Giri, ed. 2018. Small-scale fisheries in South Asia. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 137p. ISBN: 978-984-34-6007-3.
- ❖ S.S. Giri, ed. 2018. Policy Framing for Control of Transboundary Aquatic Animal Diseases. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 150p. ISBN: 978-984-34-6008-0.
- ❖ S. S. Giri, ed. 2017. Best Management Practices in Aquaculture Capacity Building and Policy Development. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 154p. ISBN: 978-984-34-341-2.
- ❖ S.S. Giri, ed. 2017. Farm-made Aquafeeds: Opportunities, Challenges and Policy Intervention. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 228 p. ISBN: 978-984-34-3448-7.
- ❖ S.S. Giri, ed. 2016. Policy Framing on Fish Biodiversity Management in Transboundary Rivers of South Asia. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 161p. ISBN:978-984-34-1771-8.
- ❖ S.S. Giri, ed. 2016. Climate Change Impact on Coastal Fisheries and Aquaculture. SAARC Agriculture Centre, South Asian Association for Regional Cooperation (SAARC), Dhaka, Bangladesh, 170p. ISBN:978-984-34-1970-5.
- ❖ S.N. Mohanty, S.C. Rath, K.N. Mohanta, S.A. Ali and S.S. Giri. 2013. Fish Feed Resources and Farm made feed. Published by Fisheries Division, Indian Council of Agricultural Research and CIFA, 112p. ISBN:978-81-924918-3-7.

MONOGRAPH

- ❖ S.S. Giri, ed., 2017. Monograph of Threatened Freshwater Fishes of South Asia. SAARC Agriculture Centre, Dhaka, Bangladesh, 305p. ISBN: 978-984-34-3454-8.

POLICY PAPERS

- ❖ Giri, S.S. and Bokhtiar, S.M. 2019. SAC Policy Brief 9. Stronger policies for growing aquaculture of commercially important finfishes. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202009.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2019. SAC Policy Brief 8. Policy paths for sustainability of aquaculture diversification in South Asia. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202008.pdf

- ❖ Giri, S.S. and Bokhtiar, S.M. 2019. SAC Policy Brief 7. Policy paths for tackling transboundary aquatic animal diseases: Action needed for prevention and control. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202007.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2019. SAC Policy Brief 6. Towards better focused and more effective small-scale fisheries policy in South Asia. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202006.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2018. SAC Policy Brief 5. Do Best Management Practices in Aquaculture Matter for Sustaining Production and Trade. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202005.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2018. SAC Policy Brief 4. Why farm-made feed makes economic sense in South Asian Aquaculture. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202004.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2018. SAC Policy Brief 3. Actions Needed to Prevent Fish Biodiversity Loss in Transboundary Rivers. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202003.pdf
- ❖ Giri, S.S. and Bokhtiar, S.M. 2018. SAC Policy Brief 2. Fisheries and Aquaculture in Changing Climate of South Asia. SAARC Agriculture Centre, South Asian Association for Regional Cooperation, Dhaka, Bangladesh.
http://www.sac.org.bd/archives/Policy_Brief/SAC%20Policy%20Brief%20-%202002.pdf
- ❖ Gurung, T.R., Joshi, P.K., Bokhtiar, S.M. and Giri, S.S. 2017. Agricultural Research in SAARC Region: Common Challenges and Shared Priorities. SAARC Agriculture Centre, Dhaka, Bangladesh, 48 p. ISBN: 978-984-34-3142-4

PATENTS/TRADE MARK

- ❖ Trade Mark “*CIFABROOD*” the brood carp feed for early gonadal maturation and increasing fecundity of Indian Major Carps. Government of India Trade Mark No. 1792420 Date 05.03.2009.

RESEARCH PAPAERS

2021

- Ferosekhan, S., Giri, A.K., Sahoo, S.K., Radhakrishnan, K., Pillai, B.R., Giri, S.S., Swain, S.K. 2021. Maternal size on reproductive performance, egg and larval quality in the endangered Asian catfish, *Clarias magur*. Aquaculture Research, 50: 1431-1436. DOI: 10.1111/are.15385.

Pradhan, C., Giri, S.S., Mohanty, S.N. and Nayak, K.C. 2021. Influence of fishmeal-replaced diet on nutrient digestibility, digestive enzyme activity, and whole-body fatty acid profile of Indian major carp, *Cirrhinus mrigala*. The Journal of Basic and Applied Zoology, 82:1-10.

Paul, B.N., Chaudhury, D., Das, A., Mandal, R.N., Singh, P., Adhikari, S., Chakrabarti, P.P., Giri, S.S., Ghosh, K. 2021. Effect of dietary lipid levels on growth, body composition, and enzyme activities of larvae of butter catfish, *Ompok bimaculatus* (Actinopterygii: Siluriformes: Siluridae). Acta Ichthyologica et Piscatoria, 51(3): 289-298 | DOI 10.3897/aiep.51.67079.

2020

Ferosekhan, S., Sahoo, S.K., K. Radhakrishnan, K., Velmurugan, P., Shamna, N., Giri, S.S. and Pillai, B.R. 2020. Influence of rearing tank colour on Asian catfish, magur (*Clarias magur*) and pangas (Pangasius pangasius) larval growth and survival. Aquaculture, 521: (2020) 735080.

diet containing plant ingredients at different levels on growth performance, carcass biochemical composition, and blood parameters in Indian major carps grown in polyculture earthen ponds. Tropical Animal Health and Production, 52: 1769-1777.

Pradhan, C., Das, D.R., Mohanty, T.K. and Giri, S.S. 2020. Evaluation of nutritive value, fatty acid composition and lipid quality indices of freshwater catfishes and murels. J Aquac Mar Biol, 9(3):80-85.

2019

Pradhan, C., Giri, S.S., Mohanty, S. N. 2019. Effect of Different Feeding Levels of Plant-ingredient-based Feed on Fillet Fatty Acid Profile, Carcass Trait, and Sensory Characteristics of Indian Major Carps in Earthen Pond Polyculture. Journal of the World Aquaculture Society, 50(2): 374-389.

Nayak, M., Giri, S.S., Pradhan, A., Samanta, M. and Saha, A. 2019. Effects of dietary α -linolenic acid/linoleic acid ratio on growth performance, tissue fatty acid profile, serum metabolites and $\Delta 6$ *fad* and *elov15* gene expression in silver barb (*Puntius gonionotus*). Journal of the Science of Food and Agriculture, 100: 1643-1652.

Ferosekhan, S., Sahoo, S.K., Giri, S.S., Dash, B.K., Pillai, B.R. and Das, P.C. 2019. Broodstock development, captive breeding and seed production of bagrid catfish, Mahanadi rita, *Rita chrysea* (Day, 1877). Aquaculture 503: 339-346.

Sahoo, S.K., Ferosekhan, S., Giri, S.S., Radhakrishnan, K., Panda, D., Sri Hari, M. and Pillai, B.R. 2019. Length-weight relationship and growth performance of different life stages of hatchery-produced magur, *Clarias magur* (Hamilton, 1822). Aquaculture Research, 50: 1431-1436.

Paul, B.N., Bhowmick, S., Singh, P., Chanda, S., Sridhar, N. and Giri, S.S. 2019. Seasonal Variations in Proximate Composition of Nine Freshwater Fish. Indian J. Anim. Nutr. 36 (1): 65-72.

2018

Nayak, K.C., Rath, S.C., Giri, S.S. and Mohanta, K.N. 2018. Evaluation of Dhaincha seed (*Sesbania aculeata*) as a Non-conventional feed ingredient for *Labeo rohita* (Ham.) fry. International Journal of Fisheries and Aquatic Studies, 6(2):272-279.

Nayaka, M., Saha, A., Pradhan, A., Samanta, M., Mohantya, T.K., Giri, S.S. 2018. Influence of dietary lipid levels on growth, nutrient utilization, tissue fatty acid composition and desaturase gene expression in silver barb (*Puntius gonionotus*) fingerlings. Comparative Biochemistry and Physiology, Part B 226: 18–25.

Paul, B.N., Bhowmick, S., Chanda, S., Sridhar, N. and Giri, S.S. 2018. Nutritional Values of Minor carps. SAARC J Agri. 16(1): 215-231.

Paul, B.N., Bhowmick, S., Chanda, S., Sridhar, N. and Giri, S.S. 2018. Nutrient Profile of five Freshwater Fish Species. SAARC J Agri. 16(2): 25-41.

Pradhan, A. Nayak, M., Samanta, M., Panda, R.P., Rath, S.C., Giri, S.S., Saha, A. 2018. Gonadotropin receptors of *Labeo rohita*: Cloning and characterization of full length cDNAs and their expression analysis during annual reproductive cycle. General and Comparative Endocrinology, 263: 21–31.

Sahoo, S.K., Ferosekhan, S., Giri, S.S., Paramanik, M., Radhakrishnan, K. 2018. Reports on common deformities in induced bred *Horabagrus brachysoma* larvae. Journal of Entomology and Zoology Studies, 6(3):462-465.

Nayak, M., Pradhan, A., Giri, S.S., Samanta, M., Konkimalla, V. B. 2018. Molecular characterization, tissue distribution and differential nutritional regulation of putative Elovl5 elongase in silver barb (*Puntius gonionotus*). Comparative Biochemistry and Physiology, Part B: Biochemistry and Molecular Biology, 217: 27-39.

2017

Nayak, M., Saha, A., Pradhan, A., Samanta, M., Giri, S.S. 2017. Dietary fish oil replacement by linseed oil: Effect on growth, nutrient utilization, tissue fatty acid composition and desaturase gene expression in silver barb (*Puntius gonionotus*) fingerlings. Comparative Biochemistry and Physiology, Part B: Biochemistry and Molecular Biology, 205: 1–12.

Rath, S.C., Nayak, K.C. Mohanty, T.K. Devaraj, C. Chandan, N. K. Mohanta, K.N. and Giri, S.S. 2017. Evaluation of mahua oilcake (*Bassia latifolia* Roxb.) as a non-conventional feed ingredient for *Labeo rohita* (Ham.) fingerlings. Indian J. Fish., 64(2): 33-39.

Rath, S. C., Mohanta, K.N., Nayak, K.C., Pradhan, C., Mohanty, T.K., Sarkar, S. and Giri, S.S. 2017. Evaluation of processed rain tree (*Samanea saman*) pod meal as a non-conventional ingredient in the diet of *Catla catla* fry. Animal Nutrition and Feed Technology, 17: 323-332.

Rath, S. C., Nayak, K.C., Pradhan, C., Mohanty, T.K., Sarkar, S., Toppo, S. and Giri, S.S. 2017. Evaluation of polanga (*Calophyllum innophyllum*) oil cake as a non-conventional ingredient in *Labeo rohita* (Ham.) fingerling feed. Indian J. Fish., 64 (special issue): 75-82.

- Paul, B.N., Chanda, S., Bhowmick, S., Sridhar, N., Saha, G.S., Giri, S.S. 2017. Nutrient profile of Indian climbing perch, *Anabas testudineus*. SAARC J. Agri., 15(1): 99-109.
- Singh, P., Paul, B.N., Rana, G.C., Mandal, R.N., Chakrabarti, P.P., Giri, S.S. 2017. Incorporation of ghee residue as a feed ingredient for *Labeo rohita* fingerlings. Animal Nutrition and Feed Technology, 17: 127-136.
- Chanda, S., Samanta, A., Paul, B.N., Ghosh, K., Giri, S.S. 2017. Effect of Dietary Iron Level on Growth Performance and Enzyme Activity in Rohu (*Labeo rohita* Hamilton) Fingerlings. Indian J. Anim. Nutr., 34 (2): 224-228.
- Mohanty, S., Panda, N., Panigrahi, B., Swain, R. K., Dash, S. K., Mishra, A., Giri, S.S. 2017. Feeding pattern, metabolic status and milk composition of Chilika buffaloes in their natural habitat. Indian Journal of Animal Sciences, 87 (5): 610-618.
- Paul, B.N., Giri, S.S., Chanda, S., Rath, S.C. and Datta, A.K. 2017. Farm-made feed polyunsaturated fatty acids (PUFAs) rich carp production in India: A case study. SAARC J. Agri., 15 (2): 45-55.
- Ferosekhan, S., Sahoo, S.K., Giri, S.S., Saha, A. and Paramanik, M. 2015. Embryonic and Larval Development of Yellow Tail Catfish, *Pangasius pangasius*. J Aquac Res Development, 6: 343.
- 2016**
- Saha, A., Pradhan, A., Sengupta, S., Nayak, M., Samanta, M., Sahoo, L., Giri, S.S. 2016. Molecular characterization of two kiss genes and their expression in rohu (*Labeo rohita*) during annual reproductive cycle. Comparative Biochemistry and Physiology, Part B: Biochemistry and Molecular Biology, 191:135-145.
- Giri, S.S., Graham, J., Hamid, N.K.A., Donald, J.A. and Turchini, G.M. 2016. Dietary micronutrients and *in vivo* n-3 LC-PUFA biosynthesis in Atlantic salmon. Aquaculture 452: 416-425.
- Mohanta, K.N., Rath, S.C., Nayak, K.C., Pradhan, C., Mohanty, T.K., Giri, S.S. 2016. Effect of restricted feeding and refeeding on compensatory growth, nutrient utilization and gain, production performance and whole body composition of carp cultured in earthen pond. Aquaculture Nutrition.
- Sahoo, S. K., Ferosekhan, S., Saha, A., Giri, S.S., Paramanik, M. 2017. Embryonic and larval development of an endangered catfish, *Horabagrus brachysoma*. Indian Journal of Animal Research, 51(1):15-20.
- Paul, B.N., Chanda, S., Sridhar, N., Saha, G.S. and Giri, S.S. 2016. Proximate, mineral and vitamin contents of Indian Major Carp. Ind. J. Anim. Nutr., 33(1): 102-107.
- Singh, P., Paul, B.N., Rana, G. and Giri, S.S. 2016. Evaluation of Jute Leaf as feed ingredient for *Labeo rohita* fingerlings. Ind. J. Anim. Nutrition, 33(2): 203-207.

Paul, B.N., Chanda, S., Sridhar, N., Saha, G.S. and Giri, S.S. 2016. Fatty acid, Amino acid and Vitamin composition of Indian Catfish, Magur (*Clarias batrachus*) and Singhi (*Heteropneustes fossilis*). SAARC Journal of Agriculture, 14(2): 189-199.

Das, K.C., Toppo, S., Mohanty, T. K., Pradhan, C., Giri, S.S. 2014. Cost effective floating feeds for Indian Major Carps (IMC) by replacement of soyabean meal with alternative feed ingredients. Indian Journal of Animal Research.

2015

Paul, B.N., Chanda, S., Sridhar, N., Saha, G.S. and Giri, S.S. 2015. Fatty Acid Profile of Indian Major Carp. Indian J. Anim. Nutrition, 32 (2): 221-226.

Nayak, M., Saha, A., Giri, S. S. 2015. Fatty Acid Profile of Fillet and Liver and Proximate Composition of *Puntius gonionotus* and *Puntius sarana*. Indian Journal of Animal Nutrition, 32 (4): 433-438.

Sahoo, S. K., Giri, S.S., Paramanik, M., Ferosekhan. S. 2015. Larval age at stocking, growth, and survival during fingerling production of the endangered sun catfish, *Horabagrus brachysoma*. Journal of Applied Aquaculture, 27:2, 144-149.

Singh, P., Paul, B.N. Ranar, G.C, Mandal R.N., Chakrabarti, P.P. and Giri, S.S. 2015. Evaluation of Ghee Residue as Feed ingredient for *Labeo rohita*. Indian J. Anim. Nutr., 32 (1): 101- 107.

Sahoo, P.K., Sahoo, S.K., Mohanty, B.R., Das, A., Giri, S.S. and Paramanik, M. 2015. Haematological and innate immunological reference intervals for farmed yellow catfish *Horabagrus brachysoma* and their seasonal variations. J. Aqua. 23:1-16.

2014

Pradhan, C. Mohanty, S.N., Rath, S.C., Giri, S.S. 2014. Influence of feeding an all plant ingredients containing diet at different levels on growth and digestive enzyme activity of pond raised Indian major carps. Animal Nutrition and Feed Technology ,14: 251-262.

Devaraj, C., Mohanty, S. N., Rath, S. C., Sarkar, S., Giri, S.S. 2014. Fasting and postprandial energy metabolism in Jayantirohu, *Labeorohita* fry fed on variable protein containing diets. International Journal of Research in Fisheries and Aquaculture, 4(1): 14-17.

Paramanik, M., Ferosekhan, S., Sahoo, S.K., Giri, S.S. 2014. Evaluation of optimal fry size for fingerling production of *Horabagrus brachysoma* in indoor condition. Indian Journal of Science, 11(30): 94-99.

Paul. B.N., Chanda, S. and Giri, S.S. 2014. Effect of feeding frequency on growth performance of *Ompok pubda* fry. Indian Journal of Animal Nutrition, 31 (2): 200 -202.

Sahoo, S. K., Giri, S.S., Paramanik, M. and Ferosekhan, S. 2014. Preliminary observation on the induced breeding and hatchery rearing of an endangered catfish, *Horabagrus brachysoma* (Gunther). International Journal of Fisheries and Aquatic Studies 1(5): 130-133.

Sahoo, S. K., Giri, S. S. and Paramanik, M. 2014. Effect of carp pituitary extract dose and latency period combinations on the stripping response of *Clarias batrachus* (Linnaeus, 1758) during induced spawning operation. Indian J. Fish., 61(1) :128-130.

Paul, B.N., Chanda, S., Das, S., Singh, P., Pandey, B.K. and Giri, S.S. 2014. Mineral Assay in Atomic Absorption Spectroscopy. The Beats of Natural Sciences, 1(4):1-17.

Rath, S. C., Nayak, K. C., Mohanta, K. N., Pradhan, C, Rangacharyulu, P. V., Sarkar, S. and Giri, S.S. 2014. Nutritional evaluation of rain tree (*Samaneasaman*) pod and its incorporation in the diet of rohu (*Labeo rohita Hamilton*) larvae as a non-conventional fed ingredient. Indian Journal of Fisheries 61(4),104-110.

2013

Sahu, B. B., Sahoo, S. K., Giri, S.S., Das, P.C., Mishra, B., Sahu, A. K., Eknath, A. E. and Jayasankar, P. 2013. Carcass traits of two marketable size classes of *Pangasius pangasius* (Hamilton, 1822). Journal of Applied Ichthyology, 29:226-229.

Paul, B.N. and Giri, S.S. 2013. Utilization of plant based attractants in *Catla catla* fingerlings. Indian Journal Animal Nutrition, 30 (4): 400-403.

2012

Sahoo, S. K., Giri, S.S., Gupta, S. D. and Sahu, A. K. 2012. Effect of animal origin feeds and frequency of feeding on growth, survival and cannibalism in *Wallago attu* (Bloch & Schneider) larvae during hatchery rearing. Asian Fisheries Science 25:66-74.

Paul, B.N., Das, S., Giri, S.S., Chattopadhyay, D.N., Mandal, R.N., Chakrabarti, P.P. 2012. Performance of *Cirrhinus mrigala* Fingerlings on Feeding Dried Distillers Grain Soluble. Indian Journal of Animal Research, 46: 272-275.

Paul, B.N., Das, S, Datta, A.K., Giri, S.S., Mohanty, S.N. 2012. Effect of Dietary Protein Levels on Growth of *Ompok pabda* (Siluridae) Fry. Animal Nutrition and Feed Technology, 12: 241-246.

Paul, B.N., Pandey, B.K. and Giri, S.S. 2012. Growth responses of *Labeo bata* larvae on feeding different Plant Proteins. Indian Journal of Animal Health, 51(2) :69-72.

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2011

Giri, S.S., Sahoo, S. K., Paul, B. N., Mohanty, S. N., Sahu, A. K. 2011. Effect of dietary protein levels on growth, feed utilization and carcass composition of endangered bagrid catfish *Horabagrus brachysoma* (Gunther 1864) fingerlings. Aquaculture Nutrition 17; 332-337.

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