

BIODATA



Name: **Dr. Sudesh Rani**
Designation: **Assistant Professor-III**
Department: **Zoology**
M.D. University Rohtak
sudesh_zoology@rediffmail.com

Specialization: Animal Biology and Behaviour/Fisheries

Educational qualifications

Degree	Year of passing	University/Institution
Ph.D	2007	CCSHAU, Hisar
PG	2004	CCSHAU, Hisar
UG	2001	KUK

Career Profile

Designation	Institution	Duration			
		From		To	
Asstt. Professor	M.D. University, Rohtak	2008	to	till	date

Projects undertaken

Title of projects	Duration	Funding agency	Status
Effect of replacement of fish meal in commercial aquafeeds by soybean on growth and metabolism of most valuable fresh water cultivated fish species (Major project)	3 years	UGC, New Delhi	Completed
To study food preference in <i>Heteropneustus fossilis</i> . (Minor project)	1 year	RK Fund, MDU, Rohtak	Completed

Research advisory

No. of Ph.D students supervised /enrolled

- ✓ Ph.D completed=01
- ✓ Ph.D registered 02 registered/01enrolled

No. of MSc.students supervised /enrolled

- ✓ 35 supervised/06 enrolled

Responsibilities/Duties

- ✓ **Act as Member of Institutional Animals Ethics Committee (IAEC) , MDU Rohtak**
- ✓ **Curriculum Development**
 - UG (General and Hons.)
 - PG curriculum development
 - PhD curriculum development
- ✓ **Act as Organizing Secretary/ Joint Organizing Secretary of National/International Seminars organized by Department of Zoology/faculty of Lifesciences from 2010-2018**
- ✓ **Appointed IQAC officer at Deptt. level 2010-2015**
- ✓ **SC/ST Cell In-Charge at Departmental level**
- ✓ **Member of PGBOS/UGBOS/Faculty of Life sciences**

Participation in National/International workshop/seminar/conferences=35

Paper presenting in National/International workshop/seminar/conferences=19

Publications in National/International Journals

1. Reeti Panchal, **Sudesh Rani**, Manju Devi and Poonam 2018. A comparative study of growth, metabolism and digestive enzyme activities of pinealectomized and non-pinealectomized catfish (*Heteropneustes fossilis*). *International Journal of Zoology and Applied Biosciences*, pp pp: 239-244
2. Reeti Panchal and **Sudesh Rani** 2018. Effect of pinealectomy and melatonin effect on gonadal development of catfish (*Heteropneustes fossilis*) during postspawning period *International Journal of Zoology and Applied Biosciences*, pp 382-389

3. Anshu Raj, Reeti Panchal and **Sudesh Rani**. 2018. Histopathological changes in liver and kidney of catfish, *Clarias batrachus* exposed to aluminium. *International Journal of Zoology and Applied Biosciences*, pp: 220-223
4. Poonam, **Sudesh Rani**, Manju Devi and Reeti Panchal 2017. **Effect of varying time of heat processed soybean diets on growth of *Cirrhinus mrigala* fry.** *International Journal of Food, Agriculture and Veterinary Sciences* ISSN: 2277-209X, pp. 27-33
5. Poonam and **Sudesh Rani** 2017. Intestinal enzyme activity in response to differentially heat processed soybean on *cirrhinus mrigala* fry. *International Journal of Food, Agriculture and Veterinary Sciences* ISSN: 2277-209X, pp. 56-65
6. **Sudesh Rani and Pooja Malik** 2017. Effect of earthworms on productivity of wheat plants. *International Journal of Food, Agriculture and Veterinary Sciences* ISSN: 2277-209X, pp. 75-80
7. Manju Devi, **Sudesh Rani**, Poonam and Reeti 2017. Effect of alternate protein source soybean meal and sesame oil cake on growth performance and body composition of fresh water fish *Cirrhinus mrigala*. *International Journal of Zoology and Applied Biosciences*, pp 399-404
8. **Sudesh Rani** 2016. Effect of urea on soil macro fauna, juvenile earthworms. *Journal of international academic research for multidisciplinary*. Impact Factor 2.417, ISSN: 2320-5083, pp15-19
9. **Sudesh Rani** 2016. Effect of water temperature on respiratory rate of fish, *Cirrhinus mrigala*. *Indian Journal Of Fundamental And Applied Life Sciences*. Impact Factor. 1.54, ISSN: 2231– 6345 Pp 13-15.
10. Priyanka Kohli and ***Sudesh Rani** 2016. Effect of surfactant on feeding rate of freshwater fish, *Labeo rohita*. *Indian journal of fundamental and applied life sciences*. Impact Factor. 1.54, ISSN: 2231– 6345, pp 25-29.
11. Monika Rani and ***Sudesh Rani** 2016. Food preference in catfish, *Heteropneustes fossilis*. *Indian Journal of Fundamental and Applied Life Sciences*. Impact Factor. 1.54, ISSN: 2231– 6345. PP 8-13
12. **Sudesh Rani** and Sanjna Gulia 2015. Growth of *cirrhinus mrigala* at different salinity levels. *Journal of international academic research for multidisciplinary*. Impact factor 1.625, ISSN: 2320-5083, pp- 224-229
13. **Sudesh Rani** 2015. Study of microbial flora and enzymes in the gut of *clarias batrachus* fed on soybean as protein source. *Journal of international academic research for multidisciplinary*. Impact Factor 2.417, ISSN: 2320-5083, pp- 240-250

14. **Sudesh Rani** 2015. Survival rate of catfish in response to water temperature. *Cibtech Journal of Zoology* ISSN: 2319–3883, pp-12-14.
15. **Sudesh Rani** 2015. Effect of processed diets on growth performance, feed utilization and excretory products (N-NH_4^{4+} and o-P_{O_4}) in Indian catfish, *Clarias batrachus*. *Journal of international academic research for multidisciplinary*. Impact Factor 2.417, ISSN: 2320-5083, pp-137-145.
16. **Sudesh Rani** 2014. Nutritive evaluation of supplemented raw vs heat processed soybean to replace fishmeal as a dietary protein source for *Cirrhinus mrigala*, mrigal *Cibtech Journal of Zoology* ISSN: 2319–3883, Vol. 3 (1), pp.49-54
17. **Sudesh Rani** and V.P. Sabhlok 2014. Effect of pinealectomy on plasma Na^+ , K^+ and Ca^{+2} in catfish *Clarias batrachus* under different salinity. *Indian Journal of Fundamental and Applied Life Sciences* ISSN: 2231-6345, Vol. 4 (2), pp.67-69
18. **Sudesh Rani** and V.P. Sabhlok 2014. Effect of melatonin administration on growth and metabolism of catfish *Clarias batrachus* under different photoperiods. *Journal of international academic research for multidisciplinary*. Impact factor 1.393, ISSN: 2320-5083, volume 2, pp 627-635.
19. **Sudesh Rani** 2014. Fish meal replacement by soybean meals in extruded feeds for *carassius auratus*, common goldfish. *Journal of international academic research for multidisciplinary*. Impact factor 1.393, ISSN: 2320-5083, pp- 450-359.
20. **Sudesh Rani and Manisha Kaushik** 2014. Use of enzymes in detergent on intestinal enzyme activity in fish, *Cirrhinus mrigala*, mrigal. *Indian Journal of Fundamental and Applied Life Sciences* ISSN: 2231-6345. pp.107-109
21. **Sudesh Rani** 2014. Isolation and characterization of enzymes producing microbial flora from gastro intestinal tract of freshwater fish *Cirrhinus mrigala* in response to different diets. *Journal of international academic research for multidisciplinary*. Impact factor 1.625, ISSN: 2320-5083, pp- 411-421
22. Sourindra Nath Jana, **Sudesh**, Sudhir Krishan Garg, Vinod Pal Sabhlok & Anita Bhatnagar 2012. Nutritive evaluation of lysine- and methionine-supplemented raw vs heat- processed soybean to replace fishmeal as a dietary protein source for grey mullet, *Mugil cephalus*, and milkfish, *Chanos chanos*. *Journal of Applied Aquaculture*, 24:1, 69-80
23. **Sudesh Rani**, S.K. Garg, V.P. Sabhlok and Anita Bhatnagar 2004. Intestinal enzyme activity and enzyme producing microbial flora in relation to feeding behaviour in some brackishwater Teleosts. *J Aquaculture*, volume 12: 55-68.

Publications in Reviewed Proceedings

1. **Sudesh Rani** 2014. Fish and its positive impact on Human health. Reviewed Proceedings of National Seminar on next generation sciences: vision 2020 and beyond. ISBN: 978-81-920945-4-0, pp-112-116
2. Manju Devi, **Sudesh Rani** and Poonam 2014. Importance of probiotics in aquaculture: A review. Reviewed Proceedings of National Seminar on next generation sciences: vision 2020 and beyond. ISBN: 978-81-920945-4-0, pp-216-219
3. Poonam, **Sudesh Rani** and Manju Devi 2014. Plants products as fish meal replacer in aquafeeds: A review. Reviewed Proceedings of National Seminar on next generation sciences: vision 2020 and beyond. ISBN: 978-81-920945-4-0, pp-284-295
4. Poonam Dalal and **Sudesh Rani** 2013. Effect of aquafeed on world fish supplies: A review. Reviewed Proceedings of National Seminar on Promising trends in science galaxy. ISBN: 978-81-920945-3-3, pp-79-91
5. **Sudesh Rani** 2013. Utilization of plant proteins (Soy protein) in aquafeeds: A review. Reviewed Proceedings of National Seminar on Promising trends in science galaxy. ISBN: 978-81-920945-3-3, pp-178-183
6. **Sudesh Rani**, Poonam and Manju 2013. Enzyme producing microbial flora isolated from fish gut. A review. A review. Reviewed Proceedings of National Seminar on Promising trends in science galaxy. ISBN: 978-81-920945-3-3, pp-206-216
7. **Sudesh Rani**, V.P. Sabhlok and S.K. Garg (2012). Effect of pineal removal on growth and metabolism of catfish, *Clarias batrachus* Reviewed Proceedings of Natl. “Challenges in combating diseases: cause to cure”. Pp: 37-44
8. **Sudesh Rani** and V.P. Sabhlok 2011. Effects of Pineal Gland Removal on Electrolyte Balance and Osmolality of the Cat Fish *Clarias Batrachus* at Different Salt Concentrations. Reviewed Proceedings of National Seminar on Internet: Applications in Research, ISBN: 978-81-920945-1-9, pp-33-35
9. **Sudesh Rani** and V.P. Sabhlok 2011. Effects of Surgical Ablation of Pineal Gland on the Vertebral Column of Catfish, *Clarias batrachus*. Reviewed Proceedings of National Seminar on Internet: Applications in Research, ISBN: 978-81-920945-1-9, pp-143-145.
10. **Sudesh Rani** (2011). Internet resources in marine fishery sciences. Natl. Seminar proceeding, Internet: Applications in Research, 163-167

11. **Sudesh Rani** 2010. Effect of pinealectomy on the thermoregulation of the Cat fish, *Clarias batrachus*. Natl. Seminar on Computing Life: Raw to Refined, Volume- 1 Pp-44-49.
12. **Sudesh Rani** and V.P. Sabhlok 2010- Influence of continuous light and darkness on ultrastructure of endocrine pineal complex of Cat fish. *H.fossilis*, Proceedings Nat. Conf. Environ. Health Issues: In a changing climate scenario, Pp-221-229