

9th BFRF Biennial Conference 2022

Bangladesh Fisheries Research Forum (BFRF) is going to organize 9th Biennial Fisheries Conference & Research Fair 2022 during the 3rd week of March 2022 in BARC, Farmgate, Dhaka. Please submit your abstracts for oral and poster presentation.

You may also submit the full paper/s

Guideline for Full Paper Preparation

- ❖ The papers should be divided into the following sections and appear in the order: (1) Abstract, not exceeding 250 words, (2) Introduction, (3) Materials and Methods, (4) Results, (5) Discussion, (6) Acknowledgments, (7) References, (8) Figure legends, (9) Tables, (10) Figures.
- ❖ Please try to limit the number of total words to not more than 5,000.
- ❖ The Results and Discussion sections may be combined and may contain subheadings. The Materials and Methods section should be sufficiently detailed to enable the experiments to be reproduced.
- ❖ All pages must be numbered consecutively from the title page, and include the acknowledgments, references and figure legends, which should be submitted on separate sheets following the main text. The preferred position of tables and figures in the text should be indicated in the left-hand margin.
- ❖ References should be cited in the text by author and date, e.g. Lie & Hire (1990). More than two authors should be referred by *et al.* e.g. *Lie et al (1990)* Listings of references in the text should be chronological. At the end of the paper, references should be listed alphabetically according to the first named author. The full titles of papers, chapters and books should be given, with the first and last page numbers. For example:
Chapman D.W. (1971) Production. In: *Methods of the Assessment of Fish Production in Freshwater* (ed. by W.S. Ricker), pp. 199-214. Blackwell Scientific Publications Ltd, Oxford.
Alam, S.D., Hossain M.M and Rahman M.B.Q (1986) A preliminary study on growth of *Crassostrea gigas* larvae and spat in relation to dietary protein. *Aquaculture* 56, 123-128.

**Please submit your abstract (soft copy) by February 28, 2022 to
www.bfrf.org**



9th BFRF Biennial Conference 2022

Bangladesh Fisheries Research Forum (BFRF) is going to organize 9th Biennial Fisheries Conference & Research Fair 2022 during the 3rd week of March 2022 in BARC, Farmgate, Dhaka.

Please submit your abstracts for oral and poster presentation.

Each oral presenter shall be entitled to no more than 12 minutes for a presentation, plus 3 minutes for questions. Presenters should use PowerPoint, Overhead projectors and Video players will not be available or allowed. Please mention your submitted abstract is for oral/poster presentation.

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Expanded Abstract Format - Please refer to the sample.

- 1. TITLE OF PAPER:** The abstract title is printed in CAPITAL LETTERS, with the exception of scientific names which should be Upper/lower case and *italicized* (see example). Scientific names should not be preceded or followed by commas or parentheses or other markings.
- 2. AUTHOR(S):** The first name should be the presenting author. Use * after the presenting author. Type in upper/lower case.
- 3. ADDRESS AND EMAIL:** Type only the presenting author's institution, address and email. Type in upper/lower case.
- 4. MAXIMUM LENGTH:** One Page
- 5. PAGE SIZE:** Standard 8.5 x 11 inch paper (portrait)
- 6. MARGINS:** 1-inch margin throughout (left/right/top/bottom)
- 7. SPACING:** Single spaced
- 8. PARAGRAPHS:** Paragraphs should be separated by a blank line and should not be indented.
- 9. FONTS:** Character fonts should be 12 point type.
- 10. FIGURES & TABLES:** Figures and tables are highly recommended. They should be reduced to the appropriate size for a one page abstract and should be clearly readable at the reduced size. The reduced figures and tables should be included in the abstract in camera-ready form.

1 inch margin (2.54 cm)

EVALUATION OF JUVENILE AUSTRALIAN RED CLAW CRAYFISH *Cherax quadricarinatus* FED PRACTICAL DIETS WITH AND WITHOUT SUPPLEMENTAL LECITHIN AND/OR CHOLESTEROL

Laura A. Muzinic*, Kenneth R. Thompson, Tracey Christian, Carl D. Webster, Lukas Manomaitis, and David B. Rouse

Aquaculture Research Center
Kentucky State University
Frankfort, KY 40601
lmuzinic@csr.net

Red claw crayfish (*Cherax quadricarinatus*) are one of more than a hundred species of Australian freshwater crayfish. However, because of its rapid growth rate, ease of spawning, wide tolerance, and lack of a larval stage, red claw may be the best candidate for aquaculture in the United States. Red claw are only being investigated as an aquaculture species in this country and information exists on their nutritional requirements and practical diet formulations. Many crustaceans require lecithin and cholesterol to be added to their diet, these two nutrients are usually found; however, lecithin and cholesterol are very expensive. Since diet costs can be as much as 70% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet be developed that meets the nutrient requirements of the species. The present study was conducted to determine if cod liver oil or lecithin needs to be added to a practical diet for red claw crayfish.

An 8-week feeding trial was conducted in a recirculating water system with newly-hatched juvenile (mean body weight of 0.2 g) red claw, each stocked in a 100 L plastic mesh culture units. Individual units were placed within fiberglass tanks, each containing a recirculating water line. Water was recirculated through biological and mechanical filters. Water temperature was maintained at 27-29°C and lighting was provided by overhead fluorescent ceiling lights on a 12-hour light:dark cycle. Ammonia, nitrite, nitrate, pH, dissolved oxygen, alkalinity, chloride, and water temperature were measured three times per week. The growth trial was to examine the effects of growth performance of newly-hatched juvenile red claw when fed four practical diets with or without cholesterol and lecithin. Other practical diets included menhaden fish meal, soybean meal, shrimp meal, wheat flour, vitamin and mineral mix, pellet binder, cod liver oil, and corn oil (Table 1).

After 8 weeks, red claw crayfish fed a practical diet without cholesterol (Diet 3) had significantly ($P < 0.05$) lower final weight, percentage weight gain, and specific growth rate (SGR) compared to crayfish fed all other diets (Table 2). These results indicate that a practical diet containing 2% cod liver oil and 1% corn oil and having no lecithin appears to be sufficient and that lecithin may not be necessary for juvenile red claw diets.

1 inch margin (2.54 cm)

8.5 inches wide (21.6 cm)

11 inches long (27.94 cm)

1 inch margin (2.54 cm)

SAMPLE

TABLE 1. Formulation of experimental diets fed to red claw crayfish.

	Diet			
	1	2	3	4
Menhaden FM	25.0	25.0	25.0	25.0
Soybean Meal	35.0	35.0	35.0	44.5
Lecithin 0.5	0.0	0.5	0.0	
Cholesterol	1.0	1.0	0.0	0.0
Other	38.5	39.0	39.5	30.5

TABLE 2. Final weight, percentage weight gain, specific growth rate (SGR), and percentage survival of red claw crayfish fed four practical diets. Means in a column with different letters were significantly different ($P < 0.05$)

	Diet			
	1	2	3	4
Final weight (g)	6.97a	6.00a	3.64b	5.11a
Weight gain (%)	3384a	2897a	1717b	2454a
SGR (%/day)	5.74a	5.66a	4.68b	5.41a
Survival (%)	76.0	64.0	56.0	80.0

Please submit your abstract (soft copy) by February 28, 2022 to www.bfrf.org

9th BFRF Biennial Conference 2022

Bangladesh Fisheries Research Forum (BFRF) is going to organize 9th Biennial Fisheries Conference & Research Fair 2022 during the 3rd week of March 2022 in BARC, Farmgate, Dhaka.

Your are invited to participate in the poster presentation session .

POSTER PREPARATION GUIDELINES

1. The posters should be no larger than 3 feet (91.5 cm) height x 4 feet (122 cm) width.
2. Your posters should be a stand-alone visual representation of your submitted abstract.
3. The title of your poster should be the same as the abstract and author names should be included.
4. The poster should be readable from up to 2 meters and aesthetically pleasing.
5. 48- to 60-point font size is recommended for headings and 24- to 32-point font size for the content.
6. Text should be concise and easy to read.
7. Enhance your message with colour and pictures by presenting results and concepts graphically.
8. Figures should not be larger than 12 cm x 18 cm and all figures require short, informative captions.
9. You need to hang your poster at the evening of 19.03.2022 at the space allocated (the front corridor of BARC Auditorium). Please bring gum, pin, clips etc.