



Middle East & Central Asia Aquaculture 2016 June 2-4, 2016 – Izmir Turkey

ABSTRACT INSTRUCTIONS

MIDDLE EAST & CENTRAL ASIA AQUACULTURE 2016 encourages the submission of high quality oral and poster presentations. We strongly encourage authors to consider poster presentations because poster sessions will be an integral part of the program. Papers submitted for "oral presentation only" may not be accepted as oral presentations due to the limited number of available time slots. **Abstracts and presentation must be in English. Translation will be provided only from English to Turkish.**

Posters will have a featured and prominent place in MIDDLE EAST & CENTRAL ASIA AQUACULTURE 2016.

Each oral presenter shall be entitled to no more than 15 minutes for a presentation, plus 5 minutes for questions. Authors of studies involving proprietary products or formulations should present this information in workshops or the trade show. Oral presentations should use Power Point. Overhead and slide projectors and video players will not be available or allowed. All presenters are required to pay their own registration accommodation and travel expenses. MIDDLE EAST & CENTRAL ASIA AQUACULTURE 2016 cannot subsidize registration fees, travel or hotel costs. No Abstract Book will be printed – the abstracts will be published online in a pdf file on www.marevent.com and selected presentations will be published as full text research in international indexed "Journal of Aquaculture Engineering and Fisheries Research" if researchers wish. Please see more details at following link.

<http://www.scientificwebjournals.com/JAEFR/JAEFR.htm>

Please send the abstract printed ready as word file. The scientific committee and the organizing committee are not allowed to make any changes in the file. All abstracts that do not strictly follow the above mentioned instructions will be deleted.

Deadline for Abstract Submission: **15 April 2016**. Please send the abstract file and transmittal form to MECAA2016@eurasiafairs.com . We will reply you as soon as possible.

Thank you for your participation, we are looking forward to meeting you in İzmir

Scientific Committee

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MECAA2016 ABSTRACT TRANSMITTAL FORM

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Please enter the name **exactly** as it appears in the abstract paper. Please do not type in all capitals. (**Example: First Name:** Daniel B. / **Surname:** Ramirez). The presenting author is the person who will be presenting this paper at the conference. (* = required field)

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INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Expanded Abstract Format - Please refer to the example

- **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.
- **AUTHOR(S):** The first name should be the presenting author. Use * after the presenting author. Type in upper/lower case.
- **ADDRESS AND EMAIL:** Type only the presenting author's institution, address and email. Type in regular upper/lower case.
- **MAXIMUM LENGTH:** One page
- **PAGE SIZE:** Standard A4 paper (210mm x 297mm = 8.27" x 11.69") (portrait)
- **MARGINS:** i-inch margin throughout(left/right/top/bottom)
- **SPACING:** Single spaced
- **PARAGRAPHS:** Paragraphs should be separated by a blank line and should not be indented.
- **FONTS:** Character fonts should be 12 point type.
- **FIGURES & TABLES:** Photo, figures and tables are highly recommended and they may be in color. 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.

2.5 cm margin

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

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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 temperature and dissolved oxygen 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 because very little information exists on their nutritional requirements and practical diet formulation. One may expect that red claw require less fat and cholesterol to be added to their diet than most other crustaceans. Still, because leucithin and cholesterol are very expensive, their diet cost can be as much as 20% of the total cost. As such, for an aquaculture enterprise, it is imperative that the least expensive diet that meets the nutrient requirements of the species. The present study was conducted to determine the nutrient requirements of red claw and to add to a practical diet for red claw crayfish.

An 8 week feeding trial was conducted in a recirculating aquaculture system with newly hatched juvenile red claw weighing 0.2 g. Red claw, each weighing 0.2 g, were placed in plastic mesh culture units (10x10x10 cm) and were fed four practical diets with 100% fish meal, 100% soybean meal, each containing 10% protein and 10% lipid, and mechanical filter. The experimental diets were maintained at 27-29°C and 16-18% oxygen saturation by overhead fluorescent lighting. The experimental period was 8 weeks. At the end of the trial, the growth performance of juvenile red claw when fed four practical diets with or without cholesterol and lecithin. Other practical diets included 100% fish meal, 100% soybean meal, shrimp meal, wheat flour, vitamin and mineral mix, poultry tallow, cod liver oil, and can 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% can oil and having no lecithin appears to be sufficient and that lecithin may not be necessary for juvenile red claw diets.

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21 cm wide

SAMPLE

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

	Diet			
	1	2	3	4
Mealbone fish	25.0	25.0	25.0	25.0
Soybean meal	25.0	25.0	25.0	44.3
Leucithin	0.1	0.8	0.8	0.8
Cholesterol	1.0	1.0	0.0	0.0
Other	38.5	20.0	20.5	20.5

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)	4.37a	5.08a	3.68b	5.11a
Weight gain (%)	2184	2397b	1717c	2458a
SGR (1/die)	5.74a	5.66a	4.08b	5.41a
Survival (%)	79.8	64.0	26.0	80.9

2.5 cm margin

29.7 cm long

in grams w/w 5:2