



2025 World Aquaculture China

水产养殖的转型升级：高质量发展和食物安全

2025世界水产养殖大会

2025年4月24-27日

中国青岛

年度国际会议暨展会



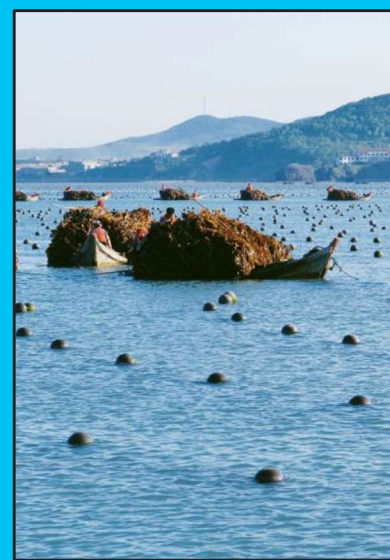
主办：世界水产养殖学会 (WAS)、中国水产学会 (CSF)

承办：中国水产科学研究院黄海水产研究所 (YSFRI)、世界水产养殖学会 (WAS)

协办：全国水产技术推广总站 (NFTEC)、中国水产科学研究院 (CAFS)、

海水养殖生物育种与可持续产出全国重点实验室 (BRESG)

WAS首席赞助商：
(新加坡水产养殖企业)
(水产养殖营养研发和生产企业)
其他会议赞助商待定



第二页：

2025世界水产养殖大会将在中国青岛举办，届时，来自世界各国的代表将齐聚一堂。2002年，世界水产养殖大会首次在中国成功召开。23年后，2025世界水产养殖大会再次在中国举办。随着水产养殖业在亚太地区和中國迅速发展，2025年无疑是世界水产养殖界再度聚焦中国的最佳时机。

青岛凭借其发达的海洋经济、稳健的海洋产业以及强大的海洋渔业、海洋装备制造和海洋运输能力，在中国海洋发展中发挥着重要作用。中国海洋大学、中国水产科学研究院黄海水产研究所、中国科学院海洋研究所均坐落于此。青岛港是世界第四大港，正逐步发展成为东北亚的国际航运枢纽。

请访问我们的网站，了解2025世界水产养殖大会的最新进展：www.was.org

目的地：青岛

青岛是中国重要的沿海城市、著名的旅游胜地和国际港口，拥有丰富的历史文化遗产。青岛的陆地面积达11000平方千米，海域面积12000平方千米，辖七个区和三个县级市，常住人口超过1000万。青岛被誉为中国的“足球之都”、“影视之都”和“帆船之都”，并入选中国最具生态竞争力的城市，还荣获了包括“2021中国最幸福城市”、“中国十大宜居城市”在内的多个荣誉。青岛也是海尔、海信、青岛啤酒、中车四方等知名品牌的发源地。

专设生产商项目

2025世界水产养殖大会将设置多个专题分会场，重点讨论亚太地区生产商关注的问题。



第三页：

2025世界水产养殖大会的分会场合和分组研讨将涵盖亚太地区和世界其他地区水产养殖的各个领域，包括但不限于：

1. 水产养殖技术、幼体、苗种、培育及养成

- 1.1 海藻养殖
 - 微藻
 - 大型藻类
- 1.2 甲壳类养殖
 - 海产虾类
 - 蟹类和龙虾类
 - 淡水虾类
 - 小龙虾（特设专题）
 - 中华绒螯蟹（特设专题）
- 1.3 贝类养殖
 - 双壳类
 - 珍珠贝（特设专题）
 - 腹足类
 - 鲍鱼（特设专题）
 - 头足类、鱿鱼和章鱼
- 1.4 鱼类养殖
 - 鲤科鱼类
 - 多宝鱼、鲆鲽鳎类
 - 鲈、鲷、尖吻鲈、巴沙鱼、鲑鱼等
 - 大黄鱼（特设专题）
 - 其他鱼类（金枪鱼、鳕鱼等）
 - 石斑鱼（特设专题）
 - 罗非鱼（特设专题）
 - 鲑鳟鱼类（特设专题）
 - 鲟鳇鱼类
- 1.5 棘皮动物和其他物种养殖
 - 海参
 - 海胆
 - 海马
 - 其它
6. 观赏和非食用物种养殖
7. 引进、外来和新兴物种
8. 浮游生物、卤虫、轮虫等

2. 水产养殖模式

- 多营养层次综合养殖（IMTA）
- 稻-渔综合种养
- 海洋牧场和资源增殖
- 循环水养殖系统及尾水处理
- 网箱养殖和浮动养殖设施
- 深远海养殖
- 盐碱水/旱地/水产养殖
- 生物安全和抗生素耐药性
- 生物絮团与微生态制剂
- 养殖设施和智能化
- 池塘、滩涂、筏式养殖

3. 水产饲料与营养

- 饲料添加剂
- 鱼粉和鱼油
- 鱼粉替代品
- 脂类和蛋白源
- 新型饲料添加剂
- 活饵料
- 饲料和投饵

4. 水产养殖疾病及防治

- 疫苗和治疗剂
- 免疫学和病理学
- 动物健康与诊断
- 益生元和益生菌
- 细菌和寄生虫
- 病毒和诊断试剂盒
- 病理学与新发疾病
- 药物和化学疗法
- 动物福利

5. 水生生物技术、遗传和育种

- 基因组操作与调控
- 基因组选择育种
- 基因组编辑育种
- 遗传图谱和分子标记
- 选择和育种计划
- 生殖细胞移植
- 水生遗传资源多样性
- 经济性状的遗传机理与调控机制
- 遗传学

6. 综合

- 战略、政策、规划和标准化
- 生物多样性和外来物种
- 信息与智能水产养殖
- 生态系统、环境与气候变化
- 遗传资源养护和恢复
- 加工和流通（物流）
- 食品安全、验证和风险评估
- 价值链经济学
- 水产养殖社会经济学
- 可持续生产和管理体系
- 新发问题
- 教育、推广、技术转让
- 新资源与保护
- 物联网技术
- 渔文化
- 创新与高科技
- 市场与贸易
- 水产养殖园区设计与
- 管理
- 碳汇渔业

您的完整会议注册包括：

- 参加所有分会场合、研讨会和展览会
- 参加招待会
- 会议资料包和展览材料（配偶除外）
- 茶歇和饮品欢乐时光
- 学生可获得完整的注册包以及学生接待（享受学生优惠需要提供学生证复印件）
- 仅提前注册的与会者方可确保获得会议材料



更多信息，请咨询会议经理

地址：P.O. Box 2302 • Valley Center, CA
92082 USA

邮箱：worldaqua@was.org •
www.was.org

论文征集 —— 截止日期：2025年1月31日

2025世界水产养殖大会鼓励提交高质量的口头报告和墙报展示，并特别鼓励作者进行墙报展示。仅选择“口头报告”的论文可能因会议时间限制而未能被接受。所有会议摘要必须以英语撰写。

每个口头报告的陈述时间不得超过15分钟，提问时间不超过5分钟。涉及专利产品或配方的相关研究，作者应在研讨会或展览会上提供相关信息。口头报告请使用POWER POINT进行展示。

大会不提供注册费、差旅和酒店费用的补贴。所有演讲者需自行承担注册、住宿和差旅费用。

摘要准备指南

摘要格式请参阅示例。

1. **论文标题：**摘要标题使用大写字母。学名应使用大写/小写字母和斜体（见示例）。学名前后不应加逗号、括号或其他标记。
2. **作者：**第一作者应是报告人。在报告人名字后标注“*”号，使用大写/小写字母。
3. **地址和电子邮件：**只提供报告人的单位、地址和电子邮件。
4. **最大长度：**1页。
5. **页面尺寸：**标准A4纸（8.5x11英寸），纵向。
6. **页边距：**四个边距（左/右/上/下）均为2.54cm（1英寸）。
7. **行间距：**单倍间距。
8. **段落：**段落之间应以空行分隔，首行不缩进。
9. **字体：**字符字体应为12号字体。
10. **图表：**强烈建议使用图表。图表应缩小到适合1页摘要的大小，并且在缩小的尺寸下清晰可读。精简的图表应以可立即拍照制版的格式包括在摘要中。

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

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Frankfort, KY 40601
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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 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 the United States and very little 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 essential for growth, survival, and reproduction. However, lecithin and cholesterol are very expensive. Since diet costs can be as much as 20% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet formulation that meets the nutrient requirements of the species. The present study was conducted to determine if cholesterol and/or lecithin needs to be added 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, each stocked in 100 L plastic mesh culture units. Individual units were placed within fiberglass tanks, each containing a practical diet and mechanical filters. Water temperature was maintained at 27-29°C and dissolved oxygen was maintained at 5.0 mg/L by overhead fluorescent ceiling lights on a 12-hour light:dark cycle. Ammonia, nitrite, nitrate, dissolved oxygen, temperature, alkalinity, chlorides, and pH were measured three times per week. The goal of the study 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)

1.1 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

请在线提交摘要

通过会议网站提交您的摘要。

请按照网站上的完整说明在线提交。

网址：www.was.org

如果您无法在线提交摘要，请与会议经理联系咨询其他方式。

邮箱：worldaqua@was.org



World Aquaculture 2025 China

April 24-27, 2025

Register online at: www.was.org

Return address for payments in USD:
 Conference Manager
 P.O. Box 2302
 Valley Center, CA 92082 USA
 Email: worldaqua@was.org

Online registration is preferred at www.was.org OR fax or mail both sides with payment. Use one form per person.

PLEASE PRINT CLEARLY OR TYPE ALL REQUESTED INFORMATION

BADGE INFORMATION: (As you want your name badge to read - No titles, please)

First Name _____ SURNAME (FAMILY NAME) _____

Company or Institution _____
 (Limited to 40 Letters & Spaces)

City _____ State/Prov _____ Country _____

MAILING INFORMATION: Email _____

Postal Address _____
 (*please* include email address)

City _____ State / Prov _____ Postal Code _____ Country _____

Phone _____ Fax _____ Title: (circle one) Dr. Mr. Ms. Mrs.
 (Include country and city code) (Include country and city code)

REGISTRATION FEES: In order to receive the discount rates as listed below, this form and payment must be received by the date listed, For Asia-Pacific country special discount rate, you must reside or live in the list of countries that qualify for this event*. See brochure for what is included in registration fees.

TYPE OF REGISTRATION	Register by April 1, 2025	Register after April 1, 2025	* To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side.
FULL CONFERENCE & TRADE SHOW In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above			
WAS MEMBER RATE	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 465	Trade Show is <u>included</u> in the Full Conference Registration Rate. TOTAL REGISTRATION FEE US\$ _____
WAS/CHAPTER STUDENT MEMBER RATE Include copy of Student I.D.	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 225	
Non-Member Rate	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 565	
Student Non-Member Rate Include copy of Student I.D. <i>You can join WAS on the reverse side and use the Member Rate.</i>	<input type="checkbox"/> US\$ 245	<input type="checkbox"/> US\$ 285	
Asia-Pacific Country* Member Rate	<input type="checkbox"/> US\$ 160	<input type="checkbox"/> US\$ 260	
Asia-Pacific Country* Student Member Rate Include copy of Student I.D.	<input type="checkbox"/> US\$ 100	<input type="checkbox"/> US\$ 120	
Asia-Pacific Country* Non-Member Rate	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 295	
Asia-Pacific Country* Student Non-Member Rate <i>(Note* only the Listed Asia-Pacific countries that qualify in this event and registration for Non-Member rate)</i>	<input type="checkbox"/> US\$ 130	<input type="checkbox"/> US\$ 150	
Spouse Rate Name _____	<input type="checkbox"/> US\$ 295	<input type="checkbox"/> US\$ 395	
TRADE SHOW PASS (Trade show pass is included with the Full Conference Registration) Good for 3 days admission to exhibits only - April 24-27	<input type="checkbox"/> US\$ 50	TOTAL TRADE SHOW PASS US\$ _____	
WORKSHOPS & TOURS - TBA		TOTAL US\$ _____	
MEMBERSHIP DUES - Enter amount from Membership Application on other side if applicable.		TOTAL MEMBERSHIP DUES US\$ _____	
Do not mail registration after March 13, 2025 or fax after March 13, 2025. After March 13, 2025, bring this form with you to register at the show.	TOTAL AMOUNT US\$ _____		

Registration Confirmation and Receipt will be emailed after processing.

CANCELLATION POLICY: Cancellation of registration must be received - in writing - no later than March 12, 2025. Refunds for registration fees will be subject to a 20% handling fee. Refunds are processed after the conference. No refund will be made for cancellations received after March 12, 2025 or for "no shows". After April 1, 2025, no refunds will be made for professional or personal emergencies, flight cancellations, denied visa, weather related cancellation or other travel emergencies. Fees for memberships are non-refundable.

PAYMENT METHOD: All fees must be paid to the order of World Aquaculture 2025 China.

For bank transfer details, contact us.

Check # _____ Visa Mastercard American Express Discover Diners Club

Card # _____ Expiration Date _____

Name on Card _____ Date _____ Signature _____

Credit Card Billing Address _____

第五、六页：报名表

Name _____

ASSOCIATION MEMBERSHIPS: Please check all boxes for associations for which you are a current member. Membership in any of those associations qualifies you for the Member Rate* on the Registration Fees. You can join an association at any time before registering to qualify for the Member Rate.

MEMBERSHIPS: WAS USAS APC Korean LACC African Chapter

**AFFILIATE
MEMBERSHIP
S:**

- China Society of Fisheries
 European Aquaculture Society
 Global Aquaculture Alliance

MEMBERSHIP APPLICATIONS NEW APPLICATION RENEWAL

WORLD AQUACULTURE SOCIETY (WAS) APPLICATION www.was.org

For details on the different types of memberships and options, please contact the WAS home office at

Tel: +1-225-347-5408 Fax: +1-225-347-5408 Email: judya@was.org

MEMBERSHIP CATEGORY: (Indicate only one)

- Individual** (USD 90/yr) Applies to an individual only
- Full Student** (USD 45/yr) Has all benefits and rights of regular membership including voting for all candidates on the ballot (Copy of Student ID or Signature of Professor required)
- Comp Student** (No charge) Has all benefits of regular membership but voting only allowed is for the Student Director and not for the full ballot. (Copy of Student ID or Signature of Professor required)
- Sustaining** (USD 155/yr) Applies to any one individual from a company
- Corporate** (USD 295/yr) Allows all employees of one company to attend meeting at Member Rate
- Lifetime** (USD 1400 with one chapter) Applies to an individual only

**Discounted rates available for individuals in countries based on World Bank List of Low Income Economies. Must sign-up on website only for this category.

Fees for memberships are non-refundable.

CHAPTER OPTIONS:

*One chapter included in membership.
Mark the chapter you choose.*

- African Chapter
 Asian Pacific
 Korea
 Latin American/Caribbean
 United States (USAS)
 None (deduct USD 5)

You can add extra Chapters for USD 5

Total Amount for WAS Membership USD _____
Please enter this amount under "Membership Dues" section on opposite side of this form.

*For membership in other associations, please contact them directly.
If you need a phone number, contact the Conference Manager (+1-760-751-5005).*

养殖场参观及观光

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酒店

我们提供各种特价、优质的住宿选择。

酒店详情请查看网站。

展会日程

4月25日

10:00-18:00

4月26日

10:00-18:00

4月27日

10:00-16:00



初步会议日程

4月24日 星期四

登记报到&展会布置 10:00-18:00
开幕式及招待会 16:00-18:00

4月25日 星期五

登记报到 07:30-18:00
大会报告 09:00-10:20
展会开幕 10:30-10:35
休息 10:30-11:00
展会开放 10:00-18:00
分会场报告 11:00-12:40
自助午餐 12:40-14:00
分会场报告 14:00-17:40
欢乐时光&墙报展示 17:40-18:00

4月26日 星期六

登记报到 08:00-17:00
分会场报告 09:00-10:40
休息 10:40-11:00
展会开放 10:00-18:00
分会场报告 11:00-12:40
自助午餐 12:40-14:00
分会场报告 14:00-17:40
欢乐时光&墙报展示 17:40-18:00

4月27日 星期日

登记报到 08:00-16:00
分会场报告 09:00-10:40
休息 10:40-11:00
展会开放 10:00-16:00
分会场报告 11:00-12:40
自助午餐 12:40-14:00
分会场报告 14:00-15:40
休息 15:40-16:00
分会场报告 16:00-17:40
展品迁出 16:00-20:00

