

## **Nicholas Romano (Ph.D.)**

**Associate Professor**

**Interim Director of the Center of Excellence in Aquaculture & Fisheries**

Aquaculture/Fisheries Department

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### **Field of specialization**

Sustainable aquaculture: currently lead several projects on biofloc technology, black soldier fly production, fish nutrition, and aquaponics.

### **PROFESSIONAL APPOINTMENTS**

- 2017 - present      *Associate Professor*, Aquaculture Production  
Aquaculture/Fisheries Center  
University of Arkansas at Pine Bluff, Arkansas, USA
- 2013 – 2017      *Senior Lecturer*, Fish Physiology  
Aquaculture Department, Agriculture Faculty  
Universiti Putra Malaysia, Serdang, Malaysia
- 2011 – 2013      *Post-doctoral Researcher*, Aquaculture Nutrition  
Biological Sciences  
Universiti Sains Malaysia, Penang, Malaysia
- 2008 – 2010      *Research Assistant*, Aquaculture  
James Cook University, Townsville, Australia

### **EDUCATION**

- 2006 – 2010      *Doctor of Philosophy in Aquaculture*  
School of Tropical Marine Biology and Aquaculture  
James Cook University, Townsville, Australia  
*Dissertation title:* Investigating the survival, growth and osmoregulatory responses of blue swimmer crab, *Portunus pelagicus*, early juveniles to salinity and ammonia
- 2005 – 2006      *Graduate Diploma of Research Methods (Aquaculture)*  
School of Tropical Marine Biology and Aquaculture  
James Cook University, Townsville, Australia
- 2001 – 2004      *Bachelor of Applied Science (Aquaculture)*  
School of Tropical Marine Biology and Aquaculture  
James Cook University, Townsville, Australia

## AWARDS

2018 - 2019                      **Chancellor's award** for "*Distinguished Research, Scholarship and Creative Activity*" at UAPB

## GRANTS FUNDING

### **Co-PI: Promoting international and local collaboration to optimize sustainable and autonomous fish and plant farming to improve food security**

Amount                      : \$ 96,000  
Duration                     : 2 years (2021-2023)  
Grant Fund                  : 1890 Institutions  
Members                     : Herbert Quintero, Jannelle Hager

### **Co-PI: Opening doors for global opportunity for students in FANRHS degree programs**

Amount                      : \$ 90,000  
Duration                     : 2 years (2021-2023)  
Grant Fund                  : 1890 Institutions  
Members                     : Dayan Perera, Pamela Moore

### **Lead PI: Integrating biofloc technology with aquaponic to improve sustainable aquaculture production**

Amount                      : \$ 478,071  
Duration                     : 3 years (2019 – 2021)  
Grant Fund                  : Capacity Building Grant (NIFA)  
Members                     : Amit Kumar Sinha, Andrew Ray, Rebecca Lochmann, Nilimia Renukdas, Dayan Perera

### **Lead PI: Effects of gelatinized starch on biofloc production, water quality and productivity of local carnivorous fish**

Amount                      : \$ 30,000  
Duration                     : 6 years (2018 – 2023)  
Grant Fund                  : Evans-Allen (NIFA)

### **Co-PI: Using Reproductive Physiology to Increase Aquaculture Capacity at the University of Arkansas at Pine Bluff**

Amount                      : \$583,750  
Duration                     : 2 years (2019 – 2021)  
Grant Fund                  : Capacity Building Grant (NIFA)  
Lead PI                      : Dayan Perera  
Members                     : Nilima Renukdas, Anita Kelly

### **Co-PI: Broodstock management, larviculture techniques and nutritional requirements for the sustainable seed production of *Portunus pelagicus***

Amount                      : MYR 507,200

Duration : 2 years (2014 – 2016)  
Grant Fund : GP-IPB

**Lead-PI: Investigating different methods to reduce cannibalism in portunid crabs**

Amount : MYR 30,000  
Duration : 1 year (2015 – 2016)  
Grant Fund : PutraGrant

**Co-PI: Development of breeding protocol and larval rearing techniques of *Tenualosa toli* in captive conditions**

Amount : MYR 800,000  
Duration : 3 years (Jan. 2016 – Dec 2018)  
Grant Fund : TRGS

**Co-PI: Molecular Phylogeny of Tropical Shad (Genus *Tenualosa*: Clupeidae) and population genetic structure of the indigenous *T. toli* and *T. macrura*.**

Amount : MYR 104,700  
Duration : 3 years (2014 – 2017)  
Grant Fund : FRGS

**Co-PI: Explicating the role of dietary carbohydrates in the nutrition of Kerai Lampam**

Amount : MYR 93,200  
Duration : 3 years (2015 – 2018)  
Grant Fund : FRGS

**Lead-PI: Consultancy on “Evaluating the toxicity of a mosquito pesticide, “MOUSTicide” to tilapia**

Amount : MYR 25,000  
Completed by : Successfully completed on time at 18/04/2014  
Consultancy for : Entogenex Industries SDN BHD

**Lead PI: Investigating the effects of important abiotic factors on the survival, growth and osmoregulation of early juvenile blue swimmer crabs, *Portunus pelagicus***

Amount : AUS \$ 10,000  
Duration : 2 years (2008 – 2010)  
Grant Fund : Graduate Research Scheme

**TEACHING EXPERIENCE**

**2014 – 2018 (Universiti Putra Malaysia)**

**AKU 3201: Principles of Aquaculture** (Undergrad course): twice/year (3 credit hours; elective)

**AKU 3104: Fish Physiology** (Undergrad course): once/year (3 credit hours; mandatory)

**2017 – 2018 (Universiti Putra Malaysia)**

**TKP 3002: Farm Practices** (Undergrad course): once/year (2 credit hours; elective)

**AKU 5401: Fish and Shellfish Nutrition** (Postgrad course): twice/year (2 credit hours; elective)

**2018 – present (University of Arkansas at Pine Bluff)**

**AQFI 3360: Hatchery Management** (Undergraduate course): once/year (3 credit hours; elective)

**GAQF 5210: Advanced Aquaculture:** once/2 years (3 credit hours; elective)

**GAGF 5220: Engineering and Construction:** once/2 years (2 credit hours; elective)

**MENTORING**

**Major Professor/Supervisor:**

Doctoral researchers: 2

Masters students: 5

Undergraduate students: 14

**Co-supervisor/Committee members:**

Doctoral researchers: 8

Masters students: 12

**Professional Affiliations**

World Aquaculture Society

Asian Fisheries Society

**PROFESSIONAL ACTIVITIES**

**Associate editor:** Marine and Freshwater Behavior and Physiology (2017 – present)

**Reviewer of manuscripts:** Reviewed over 150 manuscripts in various international journals and some of these have included Aquaculture, Aquaculture Research, Aquaculture Reports, Environmental Pollution, Ecotoxicology and Environmental Safety, Comparative Biochemistry and Physiology, PLoS One, Marine and Freshwater Behavior and Physiology and Reviews in Fisheries Science and Aquaculture.

**PUBLICATIONS**

**2021**

Fadel, A.H.I., Kamarudin, M.S., **Romano, N.**, Ebrahimi, M., Saad, C.R., Samsudin, A.A. Pre-treating carob seed germ meal enhanced digestibility, growth performance and feed utilization in red tilapia (*Oreochromis* sp.). **Animal Feed Science and Technology, *accepted manuscript*** (IF = 2.582)

Amirkolaei, A.K., Benito, M.M.R., Kumar, V., **Romano, N.**, Hong, J., Small, B.C. Bile acid supplementation in alternative lipid (soybean oil and fat powder) based diets: Effects on growth, histology (liver and intestine) and digestibility in rainbow

trout (*Oncorhynchus mykiss*). **Animal Feed Science and Technology**, *accepted manuscript* (IF = 2.582)

Fischer, H., **Romano, N.**, Sinha, A.K., 2021. Conversion of spent coffee and donuts by black soldier fly (*Hermetia illucens*) larvae into potential resources for animal and plant farming. **Insects** 12, 332 (IF = 2.139)

Egnew, N., **Romano, N.**, Fischer, H., Purging black soldier fly (*Hermetia illucens*) larvae compromises their nutritive value as a feedstuff. **International Journal of Tropical Insect Science**, *accepted manuscript* (IF = 0.536)

**Romano, N.**, Fischer, H. Microplastics affected black soldier fly (*Hermetia illucens*) pupation and short chain fatty acids. **Journal of Applied Entomology**, *accepted manuscript* (IF = 2.211)

Fischer, H., **Romano, N.**, Jones, J., Howe, J., Renukdas, N., Sinha, A. 2021. Comparing water quality/bacterial composition and productivity of largemouth bass, *Micropterus salmoides* juveniles in a recirculating aquaculture system versus aquaponics as well as plant growth/mineral composition with or without media. **Aquaculture** 538, 736554 (IF = 3.224)

Hosain, M.E., Amin, S.M.N., Kamarudin, M.S., Arshad, A., Karim, M., **Romano, N.**, 2021. Effect of salinity on growth, survival, and proximate composition of *Macrobrachium rosenbergii* post larvae as well as zooplankton composition reared in a maize starch based biofloc system. **Aquaculture** 533, 736235. (IF = 3.224)

Kumar, V., Fawole, F.J., **Romano, N.**, Hossain, M.S., Labh, S.N., Overturf, K., Small, B.C., 2021. Insect (black soldier fly, *Hermetia illucens*) meal supplementation prevents the soybean meal-induced intestinal and health benefits of using insect oil. **Fish and Shellfish Immunology** 109, 116-124. (IF = 3.298)

Egnew, N., Renukdas, N., **Romano, N.**, Kelly, A.M., Lohakare, J., Lochmann, R.T., Sinha, A.K. 2021. Physio-biochemical responses, metabolic nitrogen excretion and ion-regulatory modulations induced by high environmental iron in freshwater fish using largemouth bass (*Micropterus salmoides*) as a model. **Ecotoxicology and Environmental Safety** 208, 111526 (IF = 4.872).

Hosain, M.E., Amin, S.M.N., Kamarudin, M.S., Arshad, A., **Romano, N.** 2021. Effects of C-N ratio on growth, survival and proximate composition of *Macrobrachium rosenbergii* post larvae reared under a corn starch based zero-exchange biofloc system. **Aquaculture Research**, *in press*

## **2020**

**Romano, N.**, Renukdas, N., Fischer, H., Shrivastava, J., Baruah K., Egnew, N., Sinha, A.K., 2020. Differential modulation of oxidative stress, antioxidant defense, histomorphology, ion-regulation and growth marker gene expression in goldfish (*Carassius auratus*) following exposure to different dose of virgin microplastics. **Comparative Biochemistry and Physiology** 238C, 108862. (IF = 2.982)

Yadav, A., Sinha, A.K., Egnew, N., **Romano, N.**, Kumar, V., 2020. Potential amelioration of waterborne iron toxicity in channel catfish (*Ictalurus punctatus*) through dietary supplementation of vitamin C. **Ecotoxicology and Environmental Safety** **205**, 111337 (IF = 4.872).

Lee, S., Kumar, V., Cleveland, B., **Romano, N.**, Vemuri, G.N., Yadav, A.K., Meiler, K., Hardy, R.W. 2020. Fishmeal alternative from renewable CO<sub>2</sub> for rainbow trout feed. **Aquaculture Research** **51**, 4065-4074 (IF = 1.376).

Kotzamanis, Y., Tsironi, T., Brezas, A., Grigorakis, K., Ilia, V., Vatsos, I., **Romano, N.**, van Eys, J., Kumar, V. 2020. High taurine supplementation in plant protein-based diets improves growth and organoleptic characteristics of European seabass (*Dicentrarchus labrax*). **Scientific Reports** **10**, 12294 (IF = 4.011).

Fischer, H., **Romano, N.**, Renukdas, N., Egnew, N., Sinha, A.K., Ray, A.J., 2020. The potential of rearing juveniles of bluegill, *Lepomis macrochirus*, in a biofloc system. **Aquaculture Reports** **17**, 100398. (IF = 1.887).

**Romano, N.**, Egnew, N., Quintero, H., Kelly, A., Sinha, A.K., 2020. The effects of water hardness on the growth, metabolic indicators and stress resistance of largemouth bass *Micropterus salmoides*. **Aquaculture** **527**, 735469. (IF = 3.022)

**Romano, N.**, Surratt, A., Renukdas, N., Monico, J., Egnew, N., Sinha, A.K. 2020. Assessing the feasibility of biofloc technology to largemouth bass *Micropterus salmoides* juveniles: Insights into their welfare and physiology. **Aquaculture** **520**, 735008 (IF = 3.022)

Kumar, V., Lee, S., Cleveland, B., **Romano, N.**, Lalgudi, R.S., Benito, M.R., McGraw, B., Hardy, R.W. 2020. Comparative evaluation of processed soybean meal (EnzoMeal™) vs. regular soybean meal as a fishmeal replacement in diets of rainbow trout (*Oncorhynchus mykiss*): Effects on growth performance and growth-related genes. **Aquaculture** **516**, 734652 (IF = 3.022)

Sinha, A.M., **Romano, N.**, Shrivastava, J., Monico, J., Bishop, W.M., 2020. Oxidative stress, histopathological alterations and anti-oxidant capacity in different tissues of largemouth bass (*Micropterus salmoides*) exposed to a newly developed sodium carbonate peroxyhydrate granular algaecide formulated with hydrogen peroxide. **Aquatic Toxicology** **218**, 105348 (IF = 3.88)

Sulaiman, M.A., Kamarudin, M.S., **Romano, N.**, Syukri, F., 2020. Effects of increasing dietary carbohydrate level on feed utilisation, body composition, liver glycogen, and intestinal short chain fatty acids of a tropical carp (*Barbonymus gonionotus* ♀ X *Hypsibarbus wetmorei* ♂). **Aquaculture Reports** **16**, 100250 (IF = 1.887)

**Romano, N.**, Kumar, V., Yang, G., Kajbaf, K., Rubio, M.B., Overturf, K., Brezas, A., Hardy, R. 2020. Bile acid metabolism in fish: disturbances caused by fishmeal alternatives and some mitigating effects from dietary bile inclusions. **Reviews in Aquaculture** **12**, 1792-1817 (IF = 7.772)

## **2019**

Kumar, V., Makkar, H.P.S., Romano, N., Becker, K. 2019. Utilization of a by-product from the Jatropha biodiesel industry as a fish meal replacer in common carp *Cyprinus carpio* L. diets. **Journal of Applied Aquaculture** **31**, 48-67 (IF = 0.28)

**Romano, N.,** Kumar, V., 2019. Starch gelatinization on the physical characteristics of aquafeeds and subsequent implications to productivity in farmed aquatic animals. **Reviews in Aquaculture** **11**, 1271-1284 (IF = 7.19)

## **2018**

**Romano, N.,** Dauda, A.B., Ikhsan, N., Karim, M., Kamarudin, M.S. 2018. Fermenting rice bran as a carbon source for biofloc technology improved the water quality, growth, feeding efficiencies, and biochemical composition of African catfish *Clarias gariepinus* juveniles. **Aquaculture Research** **49**, 3691-3701 (IF = 1.475). **Top 20 most downloaded articles in Aquaculture Research 2017 – 2018.**

Rahman, M.J., Wahab, M.A., Amin, S.M.N., Nahiduzzaman, M., **Romano, N.** 2018. Catch trend and stock assessment of hilsa shad (*Tenulosa ilisha*) using digital image measured length-frequency data. **Marine and Coastal Fisheries** **10**, 386-401 (IF = 1.177). **Top 20 most downloaded articles in Marine and Coastal Fisheries 2017 – 2018.**

Sheikhlar, A., Meng, G.Y., Ebrahimi, M., **Romano, N.,** Webster, C.D., Alimon, A.R., Daud, H., Javanmard, A. 2018. Replacement of dietary fishmeal for fenugreek seed meal on the growth, body composition, innate immunological responses and gene expression of hepatic insulin-like growth factors in African catfish (*Clarias gariepinus*). **Aquaculture Nutrition** **24**, 1718-1728 (IF = 1.665)

Wee, W.C, Hoong, M.C, **Romano, N.,** Ebrahimi, M., Natrah, I. 2018. Dietary supplementation use of *Bacillus cereus* as quorum sensing degrader and their effects on growth performance and response of Malaysian giant river prawn *Macrobrachium rosenbergii* juveniles towards *Aeromonas hydrophila*. **Aquaculture Nutrition** **24**, 1804-1812. (impact factor = 1.665)

Zakaria, M.H., Amin, S.M., **Romano, N.,** Arshad, A. 2018. Embryonic and larval development of lemon fin barb hybrid (♂ *Hypsibarbus wetmorei* × ♀ *Barbonymus gonionotus*). **Journal of Environmental Biology** **39**, 732-740 (IF = 0.25)

**Romano, N.,** Aliff, A., Syukri, F. 2018. Improved performance of lemon fin barb hybrid (♂ *Hypsibarbus wetmorei* × ♀ *Barbonymus gonionotus*) at elevated salinities. **Journal of Environmental Biology** **39**, 719-724 (IF = 0.25)

Choy, J.M.S., **Romano, N.,** Ebrahimi, M., Kamarudin, M.S. 2018. Effects of dietary steviol glycosides on the growth, feed intake, and intestinal short-chain fatty acids in red hybrid tilapia. **Journal of Environmental Biology** **39**, 761-766 (impact factor = 0.640).

**Romano, N.**, Ashikin, M., Teh, J.C., Syukri, F., Karami, A. Effects of pristine polyvinyl chloride fragments on whole body histology and protease activity in silver barb *Barbodes gonionotus* fry. **Environmental Pollution** **237**, 1106-1111 (IF = 5.099).

Dauda, A.B., **Romano, N.**, Chen, W.W., Natrah, I., Kamarudin, M.S. Differences in feeding habitats influence the growth performance and feeding efficiencies of African catfish (*Clarias gariepinus*) and lemon fin barb hybrid (*Hypsibarbus wetmorei* ♂ × *Barbodes gonionotus* ♀) in a glycerol-based biofloc technology system. **Aquacultural Engineering** **82**, 31-37 (IF = 1.490)

Dauda, A.B., **Romano, N.**, Ebrahimi, M., Chin, T.J., Ajadi, A., Chong, C.M., Karim, M., Natrah, I., Kamarudin, M.S. 2018. Influence of carbon/nitrogen ratio on biofloc production and biochemical composition and subsequent effects on the growth, physiological status and disease resistance of African catfish (*Clarias gariepinus*) cultured in a glycerol-based biofloc system. **Aquaculture** **483**, 120-130 (IF = 2.041)

Nepal, S., Kumar, V., Makkar, H.P.S., Stadtlander, T., **Romano, N.**, Becker, K. 2018. Comparative nutritional value of *Jatropha curcas* protein isolate and soy protein isolate in common carp. **Fish Physiology and Biochemistry** **44**, 143-162 (IF = 1.442)

Kumar, V., Sinha, A., **Romano, N.**, Allen, K.M., Bowman, B.A., Thompson, K.R., Tidwell, J.H. 2018. Metabolism and nutritive role of cholesterol in the growth, gonadal development, and reproduction of crustaceans. **Reviews in Fisheries Science and Aquaculture**, **26**, 254-273 (IF = 2.545).

Kanmani, N., **Romano, N.**, Ebrahimi, M., Amin, S.M.N., Kamarudin, M.S., Karami, A., Kumar, V. 2018. Improvement of feed pellet characteristics by dietary pre-gelatinized starch and their subsequent effects on growth and physiology in tilapia. **Food Chemistry** **239**, 1037-1046 (IF = 4.529)

**Romano, N.**, Kanmani, N., Ebrahimi, M., Chong, C.M., Teh, J.C., Hoseinifar, S.H., Amin, S.M.N., Kamarudin, M.S., Kumar, V. 2018. Combination of dietary pre-gelatinized starch and isomaltooligosaccharides improved pellet characteristics, subsequent feeding efficiencies and physiological status in African catfish, *Clarias gariepinus*, juveniles. **Aquaculture** **484**, 293-302 (IF = 2.041)

Kamarudin, M.S., de Cruz, C.R., Saad, C.R., Romano, N., Ramezani-Fard, E. 2018. Effects of extruder die head temperature and pre-gelatinized taro and broken rice flour level on physical properties of floating fish pellets. **Animal Feed Science and Technology** **236**, 122-130 (IF = 1.755)

Babatunde, T.A., Amin, S.M., **Romano, N.**, Yusoff, F.M., Arshad, A., Esa, Y.B., Ebrahimi, M. 2018. Gonad maturation and spawning of cobia, *Rachycentron canadum* (Linnaeus, 1766) on the Dungun coast, Malaysia. **Journal of Applied Ichthyology**, **34**, 638-645 (IF = 0.783).

**2017**

Sheikhlar, A., Meng, G.Y., Alimon, R., **Romano, N.**, Ebrahimi, M. 2017. Dietary *Euphorbia hirta* extract improved the resistance of African catfish *Clarias gariepinus* to *Aeromonas hydrophila*. **Journal of Aquatic Animal Health** **29**, 225-235 (IF = 0.906)

Muntaziana, A.M.P, S.M. Nurul Amin, S.M., Kamarudin, M.S., Rahim, A., **Romano, N.** 2017. Effects of feeding frequencies on the survival, growth and feeding efficiencies of snakehead, *Channa striatus* (Bloch) fry. **Aquaculture Research** **48**, 2602-2606 (IF = 1.203)

Hoseinifar, S.H., Zhou, H.K., Miandare, H.K., Van Doan, H., **Romano, N.**, Dadar, M. 2017. Enrichment of common carp (*Cyprinus carpio*) fingerlings diet with Medlar (*Mespilus germanica*) leaf extract: effects on growth performance and skin mucosal immunity. **Fish and Shellfish Immunology** **67**, 346-352 (IF = 3.025)

**Romano, N.**, Zeng, C. 2017. Cannibalism among decapod crustaceans and implications for their aquaculture: a review on its prevalence, influencing factors, and mitigating methods. **Reviews in Fisheries Science and Aquaculture** **25**, 42-69 (IF = 2.032)

Al-Khafaji, F.M., **Romano, N.**, Amin, S.M.N., Fadel, A.H.I., Ebrahimi, M., Karami, A., Arshad, A. 2017. Effects of feeding frequencies on the growth, plasma biochemistry, and liver glycogen of Jade Perch (*Scortum barcoo*) in a recirculating system. **North American Journal of Aquaculture** **79**, 216-223 (IF = 0.760)

**Romano, N.**, Syukri, F., Karami, A., Omar, N., Khalid, N. 2017. Salinity induced changes to the survival, growth and glycogen distribution in the early fry stage of silver barb, *Barbodes gonionotus* (Bleeker, 1850). **Journal of Applied Ichthyology** **33**, 509-514 (IF = 0.783)

Ehteshami, F., **Romano, N.**, Ramezani-Fard, E., Hoseinzadeh-Sahafi, H. 2017. Effects of different microalgae combinations on *Pinctada margaritifera* larval growth and survival and feasibility of microalgae replacement with a lipid emulsion. **Aquaculture Nutrition** **23**, 671-680 (IF = 1.395)

Karami, A., Golieskardi, A., Choo, C.K., **Romano, N.**, Ho, Y.B., Salamatinia, B. 2017. A high-performance protocol for extraction of microplastics in fish. **Science of the Total Environment** **578**, 485-494 (IF = 3.976)

Ebrahimi, M., Daeman, N.H., Chong, C.M., Karami, A., Kumar, V., Hoseinifar, S.H., **Romano, N.** 2017. Comparing the effects of different dietary organic acids on the growth, intestinal short chain fatty acids, and liver histopathology of red hybrid tilapia (*Oreochromis* sp.) and potential use of these as preservatives. **Fish Physiology and Biochemistry** **43**, 1195-1207 (IF = 1.442)

Chen, W.W., **Romano, N.**, Ebrahimi, M., Natrah, I. 2017. The effects of dietary fructooligosaccharide on growth, intestinal short chain fatty acids level and hepatopancreatic condition of the giant freshwater prawn (*Macrobrachium rosenbergii*) post-larvae. **Aquaculture** **469**, 95-101 (IF = 2.041)

Taher, S., **Romano, N.**, Arshad, A., Ebrahimi, M., Teh, J.C., Ng, W.K., Kumar, V. 2017. Assessing the feasibility of dietary soybean meal replacement for fishmeal to the swimming crab, *Portunus pelagicus*, juveniles. **Aquaculture** **469**, 88-94 (IF = 2.041)

Dauda, A.B., **Romano, N.**, Ebrahimi, M., Karim, M., Natrah, I., Kamarudin, M.S., Ekasari, J. 2017. Different carbon sources affected biofloc volume, water quality and the survival and physiology of African catfish (*Clarias gariepinus*) fingerlings. **Fisheries Science** **83**, 1037-1048 (IF = 0.839)

Fadel, A.H.I., Kamarudin, M.S., **Romano, N.**, Ebrahimi, M., Saad, C.R., Samsudin, A.A. 2017. Carob seed germ meal as a partial soybean meal replacement in the diets of red hybrid tilapia. **Egyptian Journal of Aquatic Research** **43**, 337-343 (IF = 0.48)

Ng, W.K., Lim, C.L., **Romano, N.**, Kua, B.C. 2017. Dietary short-chain organic acids enhanced resistance to bacterial infection and hepatopancreatic structural integrity of the giant freshwater prawn, *Macrobrachium rosenbergii*. **International Aquatic Research** **9**, 293-302 (IF = 0.24)

## **2016**

Karami, A., **Romano, N.**, Hamzah, H., Ismail, P. 2016. Virgin microplastic fragments caused toxicity and modulated the impacts of phenanthrene on biomarker responses in African catfish (*Clarias gariepinus*). **Environmental Research** **151**, 58-70 (IF = 3.088)

Karami, A., **Romano, N.**, Hamzah, H., Simpson, S.L., Yap, C.K. 2016. Acute phenanthrene toxicity to juvenile diploid and triploid African catfish (*Clarias gariepinus*): Molecular, biochemical and histopathological alterations. **Environmental Pollution** **212**, 155-165 (IF = 4.143)

Dauda, A., Teh, J.C., Amin, N.S.M., Kamarudin, M.S., **Romano, N.** 2016. Trypsin modulating oostatic factor (TMOF) decreased the survival, growth and digestive enzymes of *Macrobrachium rosenbergii*. **Journal of Pesticide Science** **41**, 83-86 (IF = 0.84)

Koh, C.B., **Romano, N.**, Zahrah, A.S., Ng, W.K., 2016. Effects of dietary organic acids blend and oxytetracycline on the growth, nutrient utilization and total cultivable gut microbiota of the red hybrid tilapia, *Oreochromis* sp., resistance to *Streptococcus agalactiae*. **Aquaculture Research** **47**, 357-369 (IF = 1.203)

**Romano, N.**, Safee, M.A., Ebrahimi, M., Arshad, A., 2016. Fatty acid compositional changes during the embryonic development of the swimming crab, *Portunus pelagicus* (Portunidae: Decapoda). **Invertebrate Reproduction and Development** **60**, 112-117 (IF = 0.609)

Kareem, Z.H., Abdelhadi, Y.M., Christianus, A., Karim, M., **Romano, N.** 2016. Effects of some dietary crude plant extracts on the growth and gonadal maturity of

Nile tilapia (*Oreochromis niloticus*) and their resistance to *Streptococcus agalactiae* infection. **Fish Physiology and Biochemistry** **42**, 757-769 (IF = 1.622)

**Romano, N.**, Simon, W., Ebrahimi, M., Fadel, A.H.I., Min, C.C., Kamarudin, M.S. 2016. Dietary sodium citrate improved oxidative stability in red hybrid tilapia (*Oreochromis* sp.) but reduced growth, health status, intestinal short chain fatty acids and induced liver damage. **Aquaculture** **458**, 170-178 (IF = 2.041)

Ramezani-Fard, E., **Romano, N.**, Goh, Y.M, Kamarudin, M.S., Ehteshami, F., Oskoueian, E., Ebrahimi, M. 2016. The effect of different cooking methods on fatty acid composition and antioxidant activity of n-3 PUFA fortified tilapia meat with or without clove essential oil. **Journal of Environmental Biology**, **37** (Special issue) 775-784 (IF = 0.56)

Roslan, S., Taher, S., Arshad, A., **Romano, N.**, 2016. Effects of dietary peppermint (*Mentha piperita*) essential oil on survival, growth, cannibalism and hepatopancreatic histopathology of the swimming crab, *Portunus pelagicus*, juveniles. **Journal of Environmental Biology** **37** (Special issue), 785-790 (IF = 0.56)

Sukor, S.A., Taher, S., Ehteshamei, F., Arshad, A., Ng, W.K., **Romano, N.**, 2016. Effects of different dietary organic acids on the survival, growth and hepatopancreatic histopathology of the blue swimmer crab, *Portunus pelagicus*. **Journal of Shellfish Research** **35**, 555-561 (IF = 0.791)

## **2015**

**Romano, N.**, Ayob, N.M., Amin, S.M.N., Kamarudin, M.S. 2015. Acute and sub-chronic toxicity of trypsin-modulating oostatic factor (TMOF) on the growth, body composition and histopathology of red hybrid tilapia, *Oreochromis* sp., as a non-target organism. **Journal of Biopesticides** **8**, 45-51 (IF = 0.534)

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