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Education

B.S., Agronomy, State University of Maringa, Maringa, Parana State, Brazil.

M.S., Fisheries and Allied Aquacultures, Auburn University, Auburn, AL, USA.

Ph.D., Wildlife and Fisheries Sciences, Texas A&M University, College Station, TX, USA.

Research

Aquatic animal nutrition with emphasis on the optimization of feeds for commercially important finfish and crustacean species. Primary research activities include determination of nutritional requirements, evaluation of traditional/novel raw materials and additives, and feed formulation.

Teaching

Aquatic Animal Nutrition (AQU 421/AQU 521)

Selected Publications

Peer Reviewed:

Rossi W, Davis DA (2012) Replacement of fishmeal with poultry by-product meal in the diet of Florida pompano, *Trachinotus carolinus* L. *Aquaculture* 338: 160-166.

Rossi W, Moxely D, Buentello A, Pohlenz C, Gatlin D (2013) Replacement of fishmeal with novel plant feedstuffs in the diet of redear drum, *Sciaenops ocellatus*: an assessment of nutritional value. *Aquaculture Nutrition* 19: 72-81.

Rossi W, Davis DA (2014) Meat and bone meal as an alternative for fish meal in soybean meal-based diets for Florida pompano, *Trachinotus carolinus* L. *Journal of the World Aquaculture Society* 45: 613-624.

Sutili F, Gatlin DM, Rossi Jr. W, Heinzmann B, Baldisserotto B (2016). In vitro effects of plant essential oils on non-specific immune parameters of red drum, *Sciaenops ocellatus*. *Journal of Animal Physiology and Animal Nutrition* 100(6): 1113-1120.

Rossi Jr. W, Newcomb M, Gatlin DM (2017) Assessing the nutritional value of an enzymatically processed soybean meal in early-stage red drum, *Sciaenops ocellatus* L. *Aquaculture* 467: 94-101.

Rossi Jr. W, Ju M, Tomasso JR, Hume ME, Gatlin DM (2017). Nutrition of red drum, *Sciaenops ocellatus*: an additional evaluation of the effects of soy-based diets and supplemental prebiotic. *Aquaculture Research* 48: 5224-5234.

Yamamoto FY, Fei Yin, Rossi Jr. W, Hume M, Gatlin DM (2018). β -1,3 glucan derived from *Euglena gracilis* and AlgamuneTM enhances innate immune responses of red drum (*Sciaenops ocellatus* L.). *Fish & Shellfish Immunology* 77: 273-279.

Yamamoto FY, de Cruz CR, Rossi Jr. W, Gatlin DM (2020). Nutritional value of dry-extruded blends of seafood processing waste and plant-protein feedstuffs in diets for juvenile red drum (*Sciaenops ocellatus* L.). *Aquaculture Nutrition* 26: 88-97.

Magazine Articles:

Rossi W (2018). Lipid nutrition of farmed aquatic animals. *Aquaculture Magazine*, Vol. 44, number 5. <https://issuu.com/aquaculturemag>.

Rossi Jr. W, Tomasso JR, Gatlin III DM (2018) Evaluating soybean-based diets for cage-raised red drum. Global Aquaculture Alliance, Feed Sustainability.

Rossi W, Kumar AY, Habte-Tsion M.A., Allen K, Kolimadu GD, Tidwell JH, Kumar V (2017) Largemouth bass responses to EPA, DHA. Global Aquaculture Alliance, Feed Sustainability.

Book Chapters:

Rossi Jr. W, Habte-Tsion H-M. Nutrition of largemouth bass *Micropterus salmoides* L. In: *Largemouth Bass Culture*, eds: Tidwell JH, Coyle SD, Bright LA. 5M Publishing, Benchmark House, Chicago, IL. In press.

Habte-Tsion H-M, Kumar V, Rossi Jr W. (2018). Perspectives of nonstarch polysaccharide enzymes in nutrition. In: *Enzymes in human and animal nutrition* (Nunes, C.S., Kumar, V., eds). Chapter 11, Elsevier, ISBN: 978-0-12-805419-2, doi: 10.1016/B978-0-12-805419-2.00011-3.

Fallahi P, Habte-Tsion H-M, Rossi W. (2018). Depolymerizing enzymes in human food: bakery, dairy products, and drinks. In: *Enzymes in human and animal nutrition* (Nunes, C.S., Kumar, V., eds). Chapter 10, Elsevier, ISBN: 978-0-12-805419-2, doi: 10.1016/B978-0-12-805419-2.00010-1.