

Publications

- Li, P. B. Ray, D. M. Gatlin III, T. Sink, R. Chen and R. Lochmann. 2009. Effect of handling and transport on cortisol response and nutrient mobilization of golden shiner *Notemigonus crysoleucas*. *Journal of the World Aquaculture Society* 40:803-809.
- Lochmann, R.T., T.D. Sink, and H. Phillips. 2009. Effects of dietary lipid concentration, a dairy/yeast prebiotic, and fish and non-fish protein sources on growth, survival, and non-specific immune response of golden shiner, *Notemigonus crysoleucas*, in indoor tanks and outdoor pools. *North American Journal of Aquaculture* 71:16-23.
- Lochmann, R.T., T. Sink, N. Kinsey, and E. Marecaux. 2010. Effects of a dairy/yeast prebiotic on performance of golden shiners in ponds. *North American Journal of Aquaculture*, in press.
- Savolainen, L. C. and D.M. Gatlin III. 2009. Evaluation of dairy/yeast prebiotic supplementation in the diet of juvenile common goldfish (*Carassius auratus*) in the presence or absence of phytoplankton/zooplankton. *Journal of Aquatic Animal Health* 21:156-163.
- Sink, T.D., S. Kumaran, and R.T. Lochmann. 2007. Development of a whole-body cortisol extraction procedure for determination of stress in golden shiners, *Notemigonus crysoleucas*. *Fish Physiology and Biochemistry* 33:189-193.
- Sink, T.D., R.T. Lochmann, A.E. Goodwin, and E. Marecaux. 2007. Mortality rates in golden shiner, *Notemigonus crysoleucas*, fed high-fat diets with or without a dairy/yeast prebiotic prior to challenge with *Flavobacterium columnare*. *North American Journal of Aquaculture* 69:305-308.
- Sink, T.D., and R.T. Lochmann. 2008. Preliminary observations of mortality reduction in stressed, *Flavobacterium columnare*, challenged golden shiners after treatment with a dairy-yeast prebiotic. *North American Journal of Aquaculture* 70:192-194.

Theses and Dissertations

- Raggi, T. (2009) Prebiotics have limited effects on nutrient digestibility of a soybean meal-based diet by goldfish *Carassius auratus*. Masters Thesis, Texas A&M University.

Presentations

- Chen, R., H. Phillips, and R. Lochmann. 2009. Effects of standard and high-fat diets with or without a dairy/yeast prebiotic on performance of goldfish *Carassius auratus* in aquaria. *Aquaculture America 2009*, February 16-18, Seattle, Washington.
- Gatlin, D.M., III. 2008. Review of prebiotic research with fish and shrimp. *Texas Aquaculture Association Conference*, January 16-18. El Campo, Texas.
- Gatlin, D. M., III, P. Li, B. Ray, R. Chen, T. Sink, and R.T. Lochmann. 2007. Review of immune and stress responses of golden shiner, *Notemigonus crysoleucas*. *Aquaculture America 2007*, February 26-March 3, San Antonio, Texas.
- Gatlin, D. M., III, P. Li, X. Wang, G. S. Burr, F. Castille A. L. Lawrence and A. Buentello. 2007. Potential application of prebiotics in fish and shrimp culture. *Thirty-first Fish Feed and Nutrition Workshop*, May 16-17, Auburn, Alabama.
- Li, P., T. Sink, B. Ray, R. Chen, R. Lochmann and D. M. Gatlin III. 2008. Effect of handling and transport on cortisol response and nutrient mobilization of golden shiner *Notemigonus crysoleucas*. *Aquaculture America 2008*, February 9-12, Lake Buena Vista, Florida.
- Lochmann, R.T., T. Sink, N. Kinsey, and E. Marecaux. 2008. Effects of a dietary prebiotic on performance of golden shiners in ponds. *Aquaculture America 2008*, February 9-12, Lake Buena Vista, Florida.
- Lochmann, R., T. Sink, and H. Phillips. 2008. Effects of a dairy-yeast prebiotic on performance of golden shiner in tanks, pools and ponds. *Arkansas Bait and Ornamental Fish Grower's Association Meeting*, February 7, Lonoke, Arkansas.

- Lochmann, R., T. Sink, H. Phillips, and F. Bearden. 2008. Effects of a prebiotic, lipid concentration, and protein source on performance of golden shiner (*Notemigonus crysoleucas*) in outdoor pools. Aquaculture America 2008, February 9-12, Lake Buena Vista, Florida.
- Lochmann, R.T., N. Stone, A. Kachowski, and A. Gannam. 2008. Effects of diets with and without fish meal and feeding frequency on the growth of juvenile golden shiners. Aquaculture America 2008, February 9-12, Lake Buena Vista, Florida.
- Lochmann, R. 2007. Overview of shiner prebiotic studies. Thirty-first Fish Feed and Nutrition Workshop, May 16-17, Auburn, Alabama.
- Lochmann, R., T. Sink, H. Phillips, P. Li, and D.M. Gatlin, III. 2007. Effects of a feed additive, lipid concentration, and protein source on performance of golden shiner (*Notemigonus crysoleucas*). Aquaculture America 2007, February 26 - March 3, San Antonio, Texas.
- Lochmann, R., N. Stone, and A. Kachowski. 2007. Stocking rates for juvenile golden shiners to maximize single-season production of jumbo (>12 g) fish. Aquaculture America 2007, February 26 - March 3, San Antonio, Texas.
- Lochmann, R.T., T.D. Sink, H. Phillips, P. Li, and D.M. Gatlin, III. 2006. Effects of a feed additive, lipid concentration, and protein source on performance of golden shiner in tanks. UAPB Aquaculture/Fisheries Field Day, October 5, Pine Bluff, Arkansas.
- Phillips, H., N. Kinsey, and R. Lochmann. 2009. Effects of standard and high-fat diets with or without a dairy/yeast prebiotic on performance of goldfish *Carassius auratus* in outdoor pools. Aquaculture America 2009, February 16-18, Seattle, Washington.
- Raggi, T., G. Burr, B. Ray, A. Buentello and D. Gatlin III. 2009. Effects of prebiotics on nutrient digestibility of a soybean meal-based diet by goldfish *Carassius auratus* Aquaculture America 2009, February 16-18, Seattle, Washington.
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- Savolainen, L.C. and D.M. Gatlin III. 2008. Evaluation of the prebiotic GroBiotic-A in the diet of juvenile common goldfish (*Carassius auratus*) in the presence or absence of natural productivity. Texas A&M Student Research Week, Texas A&M University, College Station, Texas.
- Sink, T.D., R.T. Lochmann, and S. Kumaran. 2008. Development of a whole-body cortisol extraction procedure for determination of stress in golden shiners *Notemigonus crysoleucas*. Aquaculture America 2008, February 9-12, Lake Buena Vista, Florida.
- Sink, T., R. T. Lochmann, A. E. Goodwin, and E. Marecaux. 2007. Mortality rates in golden shiners, *Notemigonus crysoleucas*, fed diets high in fat and the prebiotic GroBiotic-A prior to challenge with *Flavobacterium columnare*. Aquaculture America 2007, February 26 - March 3, San Antonio, Texas.
- Sink, T.D., R. T. Lochmann, A. E. Goodwin, and E. Marecaux. 2006. Mortality rates in golden shiners, *Notemigonus crysoleucas*, fed diets high in fat and the prebiotic GroBiotic-A prior to challenge with *Flavobacterium columnare*. Poster presentation, UAPB Aquaculture/Fisheries Field Day, October 5, Pine Bluff, Arkansas.
- Stone, N., A. Kachowski, and R. Lochmann. 2006. Evaluation of low stocking rates for juvenile golden shiners to maximize single-season production of jumbo fish. Poster presentation, UAPB Aquaculture/Fisheries Field Day, October 5, Pine Bluff, Arkansas.
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