

Publications

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Research and Review Papers

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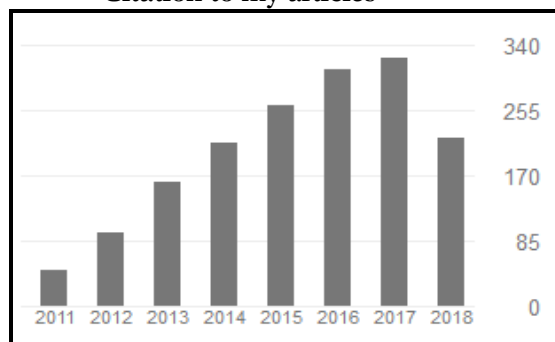
Citation indices

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Source: Google scholar

(<https://scholar.google.be/citations?user=x0y5uC8AAAAAJ&hl=en>)

Citation to my articles



YEAR 2018

1. **Sinha, A.K.**, Eggleton, M.A., Lochmann, R.T., 2018. An environmentally friendly approach for mitigating cyanobacterial bloom and their toxins in hypereutrophic ponds: Potentiality of a newly developed granular hydrogen peroxide-based compound. *Science of The Total Environment* 637, 524-537 (IF: 4.90).
2. Kumar, V., **Sinha, A.K.**, 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: 2.55).

YEAR 2017

3. Shrivastava J, **Sinha AK**, Cannaerts S, Blust R, De Boeck G. 2017. Temporal assessment of metabolic rate, ammonia dynamics and ion-status in common carp during fasting: A promising approach for optimizing fasting episode prior to fish transportation. *Aquaculture* 481, 218–228 (IF: 2.57)
4. S. Kumar, Zsuzsanna JS, Nagy Z, Fazekas G, Havasi M, **Sinha AK**, De Boeck G, Gál D. 2017. Potential of processed animal protein versus soybean meal to replace fish meal in practical diets for European catfish (*Silurus glanis*): growth response and liver gene expression. *Aquaculture Nutrition* 1-11 (IF: 1.51).

YEAR 2016

5. **Sinha AK***, Kapotwe M, Dabi SB, da Silva Montes C, Shrivastava J, Blust R, De Boeck G. 2016. Differential modulation of ammonia excretion, Rhesus glycoproteins and ion-regulation in common carp (*Cyprinus carpio*) following individual and combined exposure to waterborne copper and ammonia. *Aquatic Toxicology* 170, 129-141. *correspondence author (IF: 3.56)
6. Shrivastava J¹, **Sinha AK***¹, Datta S.N, Blust R., De Boeck G. 2016. Pre-acclimation to low ammonia improves ammonia handling in common carp (*Cyprinus carpio*) when exposed subsequently to high environmental ammonia. *Aquatic Toxicology* 180, 334-344 (IF: 3.56).
¹contributed equally; *correspondence author
7. Kumari B, Kumar V., **Sinha AK**, Ahsan J, Ghosh AK, Wang H, De Boeck G, 2016. Toxicology of arsenic in fish and aquatic systems. *Environmental Chemistry Letters* 1-22 (IF: 2.92).
8. Debusschere E, Hostens K, Adriaens D, Ampe B, Botteldooren D, De Boeck G, De Muynck A, **Sinha AK**, Vandendriessche S, Van Hoorebeke L, Vincx M. 2016. Acoustic stress responses in juvenile sea bass *Dicentrarchus labrax* induced by offshore pile driving. *Environmental Pollution* 208, 747-757. (IF: 4.14)
9. Kumar S, Sahu NP, Pal AK, Kerepeczki E, **Sinha AK**, Gal D (2016). Metabolic fitness and growth performance in tropical freshwater fish, *Labeo rohita* are modulated in response to dietary starch type (gelatinized vs non-gelatinized) and water temperature. *Aquaculture Nutrition* 22, 966-975 (IF: 1.66)

YEAR 2015

10. **Sinha AK***, AbdElgawad H, Zinta G, Dasan AF, Rasoloniriana R, Asard H, Blust R, De Boeck G. 2015. Nutritional status as the key modulator of antioxidant responses induced by high environmental ammonia and salinity stress in European sea bass (*Dicentrarchus labrax*). *PLOS One* 10(8), e0135091. (IF: 3.53)
*correspondence author
11. **Sinha AK***, Zinta G., AbdElgawad H, Asard H, Blust R., De Boeck G (2015). High environmental ammonia elicits differential oxidative stress and antioxidant responses in five different organs of a model estuarine teleost (*Dicentrarchus labrax*). *Comparative Biochemistry and Physiology C- Toxicology & Pharmacology* 174-175, 21-31 (IF: 2.83). *correspondence author
12. **Sinha AK***, Rasoloniriana R, Dasan AF, Pipralia N, Blust R, De Boeck Gudrun (2015). Interactive effect of high environmental ammonia and nutritional status on ecophysiological performance of European sea bass (*Dicentrarchus labrax*) acclimated to reduced seawater salinities. *Aquatic Toxicology* 160, 39-56 (IF: 3.53).
*correspondence author
13. Kumar V¹, **Sinha AK***¹, Rodrigues PP, Mubiana VK, Blust R, De Boeck G (2015). Linking environmental heavy metal concentrations and salinity gradients with metal accumulation and their effects: A case study in 3 mussel species of Vitória estuary and Espírito Santo bay, Southeast Brazil. *Science of the Total Environment* 523, 1-15 (IF: 4.10). *correspondence author ¹contributed equally.
14. **Sinha AK***, Dasan, AF, Rasoloniriana R, Pipralia N, Blust R, De Boeck G (2015). Hypoosmotic stress induced physiological and ion-osmoregulatory responses in European sea bass (*Dicentrarchus labrax*) are modulated differentially by nutritional status. *Comparative Biochemistry and Physiology A – Molecular & Integrative Physiology* 179, 133-143 (IF: 2.24) *correspondence author

15. Moyson S, Liew HJ, Diricx M, **Sinha AK**, Blust R, De Boeck G. 2014. The combined effect of hypoxia and nutritional status on metabolic and ionoregulatory responses of common carp (*Cyprinus carpio*). *Comparative Biochemistry and Physiology A- Molecular & Integrative Physiology* 179, 133–143 (IF: 2.24)

YEAR 2014

16. **Sinha AK***, Matey V, Giblen T, Blust R, De Boeck G. 2014. Gill remodeling in three freshwater teleosts in response to high environmental ammonia. *Aquatic Toxicology* 155, 166-180. (IF: 3.73).
*correspondence author
17. **Sinha AK***, AbdElgawad H, Giblen T, Zinta G, De Rop M, Asard H, Blust R, De Boeck G. 2014. Antioxidative defences are modulated differentially in three freshwater teleosts in response to ammonia-induced oxidative stress. *PLOS ONE* 9(4), e95319. (IF: 3.73). *correspondence author

YEAR 2013

18. Diricx M¹, **Sinha AK***¹, Liew HJ, Mauro N, Blust R, De Boeck G. 2013. Compensatory responses in common carp (*Cyprinus carpio*) under ammonia exposure: additional effects of feeding and exercise. *Aquatic Toxicology* 142-143, 123-137. ¹contributed equally; *correspondence author (IF: 3.73)
19. Liew HJ¹, **Sinha AK**¹, Mauro N, Diricx M, Darras VM, Blust R, De Boeck G. 2013. Feeding and swimming modulate iono-and-hormonal regulation differently in goldfish, *Carassius auratus* and common carp, *Cyprinus carpio*. *Comparative Biochemistry and Physiology A – Molecular & Integrative Physiology* 165, 13-21. ¹contributed equally (IF: 2.24)
20. Liew HJ¹, **Sinha AK***¹, Nawata CM, Blust R, Wood CM, De Boeck G. 2013. Differential responses in ammonia excretion, sodium fluxes and gill permeability explain different sensitivities to acute high environmental ammonia in three freshwater teleosts. *Aquatic Toxicology* 126, 63-76. ¹contributed equally; *correspondence author (IF: 3.73)
21. **Sinha AK***, Liew HJ, Nawata CM, Blust R, Wood CM, De Boeck G. 2013. Modulation of Rh glycoproteins, ammonia excretion and Na⁺ fluxes in three freshwater teleosts when exposed chronically to high environmental ammonia. *Journal of Experimental Biology*, 216:2917-2930. (I.F. 3.20) *correspondence author
22. **Sinha AK***, Giblen T, AbdElgawad H, De Rop M, Asard H, Blust R, De Boeck G. 2013. Regulation of amino acid metabolism as a defensive strategy in the brain of three freshwater teleosts in response to high environmental ammonia exposure. *Aquatic Toxicology* 130-131, 86-96. (IF: 3.76) *correspondence author

YEAR 2012

23. Kumar V¹, **Sinha AK**¹, Makkar HPS, De Boeck G, Becker K. 2012. Dietary Roles of Non-starch polysaccharides in Human Nutrition: A Review. *Critical Reviews in Food Science and Nutrition* 52, 899-935. ¹contributed equally (IF: 5.55)
24. **Sinha AK***, Diricx M, Chan LP, Liew HJ, Kumar V, Blust R, De Boeck G. 2012. Expression pattern of potential biomarker genes related to growth, ion regulation and stress in response to ammonia exposure, food deprivation and exercise in common carp (*Cyprinus carpio*). *Aquatic Toxicology* 122-123, 93-105. (IF: 3.76) *correspondence author

25. Liew HJ¹, **Sinha AK**¹, Mauro N, Diricx M, Blust R, De Boeck G. 2012. Fasting goldfish, *Carassius auratus* and common carp, *Cyprinus carpio*, use different metabolic strategies when swimming. *Comparative Biochemistry and Physiology A – Molecular & Integrative Physiology* 163, 327-335. ¹contributed equally (IF: 2.24)
26. **Sinha AK**^{*}, Liew HJ, Diricx M, Kumar V, Darras VM, Blust R, De Boeck G. 2012. Combined effects of high environmental ammonia, starvation and exercise on hormonal and ion-regulatory response in goldfish (*Carassius auratus* L.). *Aquatic Toxicology* 114-115, 153-164. (IF: 3.76) ^{*}correspondence author
27. Kumar V¹, **Sinha AK**¹, Makkar HPS, De Boeck G, Becker K. 2012. Phytate and phytase in fish nutrition. *Journal of Animal Physiology and Animal Nutrition* 96, 335-364. ¹contributed equally (IF 0.86)
28. **Sinha AK**^{*}, Liew HJ, Diricx M, Blust R, De Boeck G. 2012. The interactive effects of ammonia exposure, nutritional status and exercise on metabolic and physiological responses in gold fish (*Carassius auratus* L.). *Aquatic Toxicology* 109, 33-46. (IF: 3.76) ^{*}correspondence author

YEAR 2011

29. Kumar V, Sahu NP, Pal AK, Jain KK, Kumar S, Sagar V, **Sinha AK**, Ranjan J. 2011. Gelatinized and non-gelatinized corn starch based diet influence the fatty acid profile in the liver of tropical freshwater fish, *Labeo rohita*. *Journal of Aquaculture Research & Development* 2: 106-112. (I.F. 0.62)
30. **Sinha AK**, Kumar V, Makkar HPS, De Boeck G, Becker K. 2011. Non-starch polysaccharides and their role in fish nutrition: A Review. *Food Chemistry* 127, 1409-1426. (IF: 3.66)

YEAR 2010

31. De Boeck G, Eyckmans M, Lardon I, Bobbaers R, **Sinha AK**, Blust R. 2010. Metal accumulation and metallothionein induction in the spotted dogfish *Scyliorhinus canicula*. *Comparative Biochemistry and Physiology A – Molecular & Integrative Physiology* 155, 503-508. (IF: 2.24)
32. De Schryver P¹, **Sinha AK**¹, Baruah K, Verstraete W, Boon N, De Boeck G, Bossier P. 2010. Poly- β -hydroxybutyrate (PHB) increases growth performance and intestinal bacterial range-weighted richness in juvenile European sea bass, *Dicentrarchus labrax*. *Applied Microbiology and Biotechnology* 86, 1535-1541. ^{*}contributed equally (IF: 3.73)
33. Kumar V, Sahu NP, Pal AK, Kumar S, **Sinha AK**, Ranjan J, Baruah K. 2010. Modulation of key enzymes of glycolysis, gluconeogenesis, amino acid catabolism, and TCA cycle of the tropical freshwater fish *Labeo rohita* fed gelatinized and non-gelatinized starch diet. *Fish Physiology and Biochemistry* 36, 491-499. (IF: 1.53)
34. Kumar V, **Sinha AK**, Makkar HPS, Becker K. 2010. Dietary roles of phytate and phytase in human nutrition: A review. *Food Chemistry* 120, 945-959. (IF: 3.66)
35. Kumar V, Sahu NP, Pal AK, Kumar S, Sagar V, **Sinha AK**, Ranjan J. 2010. Nucleic acid content changes of a tropical freshwater fish *Labeo rohita* fed gelatinized and non-gelatinized starch diet. *Journal of the World Aquaculture Society* 41, 270-277. (IF: 0.71)
36. Sharma P, Kumar V, **Sinha AK**, Ranjan J, Kithsiri HMP, Venkateshwarlu G. 2010. Comparative fatty acid profiles of wild and farmed tropical freshwater fish rohu (*Labeo rohita*). *Fish Physiology and Biochemistry* 36, 411-417. (IF: 1.53)

37. **Sinha AK***, Vanparys C, De Boeck G, Kestemont P, Wang N, Phuong NT, Scippo M-L, De Coen W, Robbens J. 2010. Expression characteristics of potential biomarker genes in Tra catfish, *Pangasianodon hypophthalmus*, exposed to trichlorfon. *Comparative Biochemistry and Physiology – Part D: Genomics and Proteomics* 5, 207-216. (IF: 2.88) *correspondence author

YEAR 2009

38. Kumar S, Sahu NP, Pal AK, Sagar V, **Sinha AK**, Baruah K. 2009. Modulation of key metabolic enzyme of *Labeo rohita* (Hamilton) juvenile: effect of dietary starch type, protein level and exogenous α -amylase in the diet. *Fish Physiology and Biochemistry* 35, 301-315. (IF: 1.53)
39. Kumar V, Sahu NP, Pal AK, Kumar S, Sharma P, Chettri JK, **Sinha AK**. 2009. Non-gelatinized starch influences the deposition of n-3 fatty acids in the muscle of a tropical freshwater fish, *Labeo rohita*. *Journal of Animal Physiology and Animal Nutrition* 93, 659-668. (IF: 0.86)
40. Norouzitallab P, Farhangi M, Babapour M, Rahimi R, **Sinha AK**, Baruah K. 2009. Comparing the efficacy of dietary α -tocopherol with that of dl- α -tocopheryl acetate, both either alone or in combination with ascorbic acid, on growth and stress resistance of angelfish, *Pterophyllum scalare*, juveniles. *Aquaculture International* 17, 207-216. (IF: 0.91)

Impact Factor (IF) represents year of publication

Book Chapter

1. Kumar V*, **Sinha AK***, Wang, H.P., De Boeck, G. (2014). “Fibre and gastrointestinal health” in the book “Advanced Nutrition and Dietetics in Gastroenterology. Editor: Miranda Lomer. Wiley-Blackwell (an imprint of John Wiley & Sons Ltd). ISBN 9780470671320. Chapter 2.1, Pp. 57-71. *contributed equally
2. Kumar V, **Sinha AK**. (2018). ‘General aspects of phytases’ in the book *Enzymes in Human and Animal Nutrition Principles and Perspectives*. Academic Press, Cambridge, Elsevier.

Scientific Popular articles

1. Kumar V, Gavryliuk O, **Sinha AK**, Barman D, De Clercq E, Das A, Mandal SC. 2012. Jatropha meal, a promising plant protein source in aquafeed development. *World Aquaculture Magazine* 43 (2), 38-45.
2. **Sinha AK**, Norouzitallab P, Baruah K. 2009. Antimicrobial Peptide: Possible therapeutics in Aquaculture. *World Aquaculture Magazine*. 40(4):50-53.
3. **Sinha AK**, Baruah K, Bossier P. 2008. Horizon scanning: The potential use of Bioflocs as an anti-infective strategy in aquaculture- An overview *Aquaculture Health International*. 13:8-10.
4. **Sinha AK**, Baruah K, Debnath D, Pal AK. 2007. Nutrzymes, Ideal nutraceuticals in Aquafeed: Potential and Limitation. *Aquaculture Health International*. 11:4-6.
5. **Sinha AK**, Baruah K, Debnath D, Pal AK. 2007. Nutrzymes, Ideal nutraceuticals in Aquafeed: Potential and Limitation. *Aquaculture Europe*. 32(4):11-14.
6. Chettri JK, Kumar V, **Sinha AK**, Ramesh R. 2006. Antibiotic Residue and concept of Organic Fish Farming, *Aqua International Monthly Magazine*. 14(2):33-35.

7. Tejpal CS, Kumar V, Chettri JK, **Sinha AK**. 2006. Non-antibiotic growth promoters in fish and shellfishes. *Aqua International*. 14(4):32-36.

Published contributions to academic conferences

- **Sinha, AK**, Green, R., Ramena, Y., Howe, J. 2018. Selective suppression of algal bloom in aquaculture ponds with sodium carbonate peroxyhydrate. Aquaculture America 2018, Las Vegas, February 19-22, 2018 (*Platform presentation*)
- **Sinha, A.K**, Zinta, G., Kumar, A. A., Beemster, G., Blust, R., De Boeck, G. 2018. Global transcriptome profiling of marine fish in response to environmental change: salinity and ammonia interactions. Aquaculture America 2018, Las Vegas, February 19-22, 2018. (*Platform presentation*)
- **Sinha, AK**, Green, R., Howe, J. 2018. Mitigating Cyanobacterial Blooms and Cyanotoxins in Hypereutrophic Ponds Following the Application of Environmental-Friendly Hydrogen Peroxide-based PAK® 27 Algacide. 32nd Annual Meeting of the Arkansas Chapter of the American Fisheries Society, Pine Bluff, 23-25 January 2018 (*Platform presentation*)
- Egnew, N., **Sinha, A.K**. 2018. Compensatory responses of largemouth bass *Micropterus salmoides* to chronic high environmental ammonia exposure. Aquaculture America 2018, Las Vegas, February 19-22, 2018. (*Platform presentation*)
- Shrivastava, J., **Sinha, A.K.**, Cannaearts, S., Verrostte, E., Blust, R., De Boeck, G. 2018. Finding an ideal fasting period prior to the live fish transportation: assessment of ammonia excretion dynamics and aerobic metabolism trade-off. Aquaculture America 2018, Las Vegas, February 19-22, 2018. (*Platform presentation*)
- De Boeck, G., Shrivastava, J., Caneos, W., Ndugwa, M., **Sinha, A.K**. 2018. Reduced salinity affects the capacity of juvenile European sea bass (*Dicentrarchus labrax*) to deal with additional stress. Lessons from two high CO₂ worlds - future oceans and intensive aquaculture. The Society for Experimental Biology Conference. São Miguel, Azores, Portugal, April 10 – 12. (*Platform presentation*)
- **Sinha, AK**, Shrivastava, J., Blust, R., De Boeck, G. 2017. Eco-physiological memory of fish to stress episodes: potential role in ammonia acclimation. Aquaculture America 2017. San Antonio, Texas, USA. Feb. 19-22. (*Platform presentation*)
- **Sinha, AK**, Nektaris, M.N., Zinta, G., Kumar, A. A., Beemster, G.T.S., Blust, R., De Boeck, G. 2017. Interactive effects of salinity and ammonia stress on marine fish: insights from genome-wide transcriptional analysis. Society for Experimental Biology, Gothenburg, Sweden (Europe). July 2-7. (*Platform presentation*)
- **Sinha, AK**. 2017. Ammonia Preacclimation: A Prospective Strategy in Aquaculture Management Practices. 18th Biennial Research Symposium, Association of 1890 Research Directors, Atlanta, Georgia, USA. Apr. 1-4. (*Platform presentation*)
- Shrivastava, J., **Sinha, AK**, Cannaearts, S., Verrostte, E., Blust, R., De Boeck, G. 2017. Temporal assessment of metabolic rate, ammonia dynamics and ion-status in common carp during fasting: optimizing fasting period prior to transport. Society for Experimental Biology, Gothenburg, Sweden. July 2-7. (*Platform and Poster presentation*)
- **Sinha, AK**, Kapotwe, M., Dabia, S.B., da Silva Montes, C., Shrivastava, J., Blust, R., De Boeck, G. 2016. Combined effect of waterborne copper and high environmental ammonia on ammonia handling and ion-regulation in common carp (*Cyprinus carpio*). 12th International Congress on the Biology of Fish. San Marcos, Texas USA. June 12-16. (*Platform presentation*)
- Shrivastava, J., **Sinha, AK**, Goss, G., Clifford, A., Weinrauch, A., Blust, R., De Boeck, G. 2016. Acid-base balance and ion regulation in spotted ratfish *Hydrolagus colliei* during hypercapnia. Zoology Congress. Antwerpen, Belgium. Dec 15-17. (*Platform presentation*)
- De Boeck, G., Wood, C.M., Brix, K.M., **Sinha, AK**, Johannsson, O.E., Bianchini, A., Bianchini, L.F., Maina, J.N., Kavembe, G.D., Papah, M.B., Letura, K.M., Ojoo, R.O., 2016. Fasting in the 'big spender' lake Magadi tilapia affects iono-regulation rather than energy budget. Society for Experimental Biology, Brighton, UK July 4-7.

- Shrivastava, J., **Sinha, AK**, Datta, S.N., Blust, R., De Boeck, G., 2016. Pre-acclimation to low ammonia improves ammonia handling in common carp when exposed subsequently to high environmental ammonia. Society for Experimental Biology, Brighton, UK July 4–7.
- Pipralia, N., **Sinha, AK**, Blust, R., De Boeck, G., 2016. Interactive effect of ocean acidification and salinity reduction on ecophysiological performance of European seabass (*Dicentrarchus labrax*). Society for Experimental Biology, Brighton, UK. July 4–7.
- **Sinha AK**, AbdElgawad H, Zinta G, Asard H, Blust, R., De Boeck G 2015. Nutritional status as the key modulator of antioxidant responses induced by salinity stress and high ammonia in European sea bass. Society of Experimental Biology, Prague, Czech Republic, June 29 – July 4.
- Kumar S, Sándor Zs J, Fazekas G, Adorjan A, **Sinha AK**, De Boeck G, Ronyai A, Gál D. 2015. The positive impact of feeding plant based diet from the early stage in common carp on its future utilization. Aquaculture Europe 2015. Rotterdam, Netherlands, Oct. 20 – 23.
- Pipralia N, **Sinha AK**, Vanuytrecht K, Blust R, De Boeck G 2015. Adaptive strategies of European sea bass (*Dicentrarchus labrax*) to ocean acidification and salinity stress. Annual Main Meeting 2014 Society of Experimental Biology, Prague, Czech Republic, June 29- July 4.
- De Boeck G., **Sinha AK**, H.J. Liew, M. Nawata, C.M. Wood. 2014. The value of comparative physiology: differences in ammonia handling between sensitive and tolerant freshwater fish. Annual Main Meeting 2014 Society of Experimental Biology, Manchester, UK, June 30-July 4.
- De Boeck, G., **Sinha, AK**, Liew, H.J. and Tudorache, C. 2014. Food availability and environment alter swimming capacities in freshwater fish. Fit Fish workshop at International Congress on the Biology of Fish 2014, Edinburgh, UK, August 6.
- De Boeck G., Giblen T., **Sinha AK**, Matey V, Blust R. 2013. Gills remodelling in freshwater teleosts in response to high environmental ammonia. SEB Annual Main meeting, Valencia, Spain, 3rd July-6th July.
- Giblen T, De Rop M, **Sinha AK**, Blust R, De Boeck G. 2012. Compensatory strategies in goldfish and common carp in response to water-borne ammonia. SEB Annual Main meeting, Salzburg, Austria. June 29 – July 02, 2012.
- **Sinha AK**, Liew HJ, Nawata CM, Blust R, Wood CM, De Boeck G. 2012. Salmonids respond differently to high external ammonia than Cyprinids: a comparative study on the regulation of Na⁺ flux, ammonia transporters and associated mechanisms. SEB Annual Main meeting, Salzburg, Austria. June 29 – July 02, 2012. (*Poster presentation*)
- Wood CM, Nawata CM, **Sinha AK**, Liew HJ, De Boeck G. 2012. Ammonia excretion, sodium uptake, cortisol and intracellular signalling during high environmental ammonia exposure in fish. SEB Annual Main meeting, Salzburg, Austria. June 29 – July 02, 2012. (*Platform presentation*)
- Chan L, Diricx M, Liew HJ, **Sinha AK**, De Boeck G. 2011. Influence of ammonia exposure, nutritional status and exercise on the expression pattern of potential biomarker genes in the common carp (*Cyprinus carpio*). Annual Main Meeting 2011 Society of Experimental Biology, Glasgow, UK. July 1-4. p. 104.
- De Boeck G, Liew HJ, **Sinha AK**, Nawata MC, Wood CM. 2011. Consequences of elevated environmental ammonia for Na transport and ammonia/urea excretion in freshwater fish. International Fisheries Symposium 2011, Kuala Terengganu, Malaysia. Oct. 03-05.
- Liew HJ, **Sinha AK**, Darras VM, Blust R, De Boeck G. 2011. Combined impact of feeding and exhaustive exercise on ion- and hormonal regulation of Goldfish, *Carassius auratus*. International Fisheries Symposium 2011, Kuala Terengganu, Malaysia. Oct. 03-05, 2011: 39-42.
- Liew HJ, **Sinha AK**, De Boeck G. 2011. Effects of food deprivation and exhaustive swimming impacts on swimming performance, metabolic responses and the energy budget of goldfish, *Carassius auratus*. Annual Main Meeting 2011 Society of Experimental Biology, Glasgow, UK. July 1-4. p. 113.
- **Sinha AK**, De Boeck G, Blust R, Diricx M, Liew HJ. 2011. The interactive effects of ammonia exposure, nutritional status and exercise on the ecological fitness of gold fish. Annual Main Meeting 2011 Society of Experimental Biology, Glasgow, UK. July 1-4. p.99. (*Platform presentation*)
- De Boeck G, Eyckmans M, Lardon I, Bobbaers R, **Sinha AK**, Blust R. 2009. Metal accumulation and metallothionein induction in the spotted dogfish *Scyliorhinus canicula*. Abstracts of the 26th Congress of the

new European Society of Comparative Biochemistry and Physiology, Innsbruck, Austria. 6-9 September. Comparative Biochemistry and Physiology, Part A 154(1): S13-S22: pS14.

- De Boeck G, Eyckmans M, Lardon I, Bobbaers R, **Sinha AK**, Blust R. 2009. Metal toxicity in the spotted dogfish *Scyliorhinus canicula*. Annual main meeting 2009 SEB Glasgow, UK. 28 June – 1 July. Comparative Biochemistry and Physiology, Part A 153: S64-S70.
- De Schryver P, **Sinha AK**, Kumar Singh P, Baruah K, Boon N, Verstraete W, De Boeck G, Bossier P. 2009. The bacterial storage compound poly- β -hydroxybutyrate (PHB) increases growth performance and intestinal microbial diversity in juvenile European sea bass (*Dicentrarchus labrax*). 5th Fish & Shellfish Larviculture Symposium, Ghent, Belgium. Sept. 7-10.
- **Sinha AK**, Vanparys C, De Boeck G, Kestemont P, Phuong NT, Wang N, Scippo ML, De Coen W, Robbens J. 2009. Real-Time PCR Testing of Potential Biomarkers in *Pangasius hypophthalmus* exposed to insecticide. Books of Abstract, Genomics in Aquaculture (GIA), Bodo, Norway. July 5-7.
- **Sinha AK**, Vanparys C, De Boeck, Robbens J. 2009. Expression characteristics of Biomarker genes in the *Pangasius hypophthalmus* exposed to Trichlorfon. Annual meeting on analytical and biological methods in support of sustainable aquaculture practices, Can Tho, Vietnam. Sept 24-26. (*Platform presentation*)

Invited speaker

- Kumar, V., Sinha, AK., Tidwell, J.H. (2015). Metabolic implications of dietary cholesterol in shrimp- A review. World Aquaculture 2016 conference at Las Vegas, Nevada, Feb. 22 - 26, 2016.
- Kumar, V., Allen, K.M., Kenneth, R., Thompson, B.A., Bowman, V.C., Cummins, K.F., Sinha, AK., Tidwell, J. H. Physiology and gene based comparative evaluation of omega-3 rich algal meal in plant protein and fish meal diets for pacific white shrimp (*Litopenaeus vannamei*). World Aquaculture 2016 conference at Las Vegas, Nevada, Feb. 22 - 26, 2016.

Gene sequences published in GenBank (NCBI) database

1. *Cyprinus carpio* sodium potassium ATPase alpha subunit mRNA, partial cds. Accession JX570881
2. *Cyprinus carpio* vacuolar type proton ATPase B subunit mRNA, partial cds. Accession JX570880
3. *Cyprinus carpio* Rhbg mRNA, partial cds. Accession JX570877
4. *Cyprinus carpio* Rhcg-a mRNA, partial cds. Accession JX570878
5. *Cyprinus carpio* Rhcg-b mRNA, partial cds. Accession JX570879
6. *Cyprinus carpio* urea transporter mRNA, partial cds. Accession JX570882
7. *Carassius auratus* sodium potassium ATPase alpha subunit mRNA, partial cds. Accession JX570887
8. *Carassius auratus* vacuolar type proton ATPase B subunit mRNA, partial cds. Accession JX570886
9. *Carassius auratus* Rhbg mRNA, partial cds. Accession JX570883
10. *Carassius auratus* Rhcg-a mRNA, partial cds. Accession JX570884
11. *Carassius auratus* Rhcg-b mRNA, partial cds. Accession JX570885
12. *Carassius auratus* urea transporter mRNA, partial cds. Accession JX570888