

**Resume** Should include education, research interests, experience, honors and awards

## **CURRICULUM VITAE** **Up to December, 2013**

**NAME:** Sungchul Charles Bai

**CURRENT TITLE:** Undergraduate and Graduate Faculty, Pukyong National University  
Professor/Department of Marine Bio-materials and Aquaculture, and  
Director/Feeds and Foods Nutrition Research Center (FFNRC)  
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**EDUCATION :** B.S., Animal Husbandry, Kon-Kuk University, Seoul, Korea, 1980  
M.S., Animal Nutrition, Calif. State Univ., Fresno, Calif., USA, 1984  
Ph.D., Nutrition/Physiological Chemistry, School of Veterinary Medicine,  
University of California, Davis, Calif., USA, 1990

### **RESEARCH INTERESTS:**

Basic nutrition of fishes and shellfishes, including the fundamental physiological and biochemical roles of macro and micro nutrients as regulatory molecules. These areas of research can make significant contributions to the establishment of the knowledge base in nutrient metabolism and physiology in animal models including marine fishes and mollusks. Research activities include determining dietary requirements and toxic levels, and finding unknown nutrient metabolisms for the various metabolic cycles in animal models. Consideration is given to such aspects as nutritional biochemistry, nutro- genomics/-proteomics, nutritional energetics, and nutrition-disease interactions of fish as they relate to human health. The findings not only carry scientific significance in the area of marine animal physiology and cellular processes but also deliver a practical knowledge base that can be applied to the future development of sustainable food supplies and marine ecosystems.

### **TEACHING AND ACADEMIC ACTIVITIES:**

Current teaching Subjects in Graduate (G) and in Undergraduate (U) Levels: Nutritional Biochemistry (G); Fish Nutrition(G); Introduction of Nutrition and Lab (U); Micronutrient's Metabolism (U); Analytical Chemistry (U); Feed Sciences (U)

Current Undergraduate, Graduate Students and Staff in Laboratory and FFNRC : total of 14 (2 U, 3 MS, 9 PhD) students and 5 full time staffs.

## **PROFESSIONAL AND ACADEMIC APPOINTMENTS:**

- President (2013), Korean Federation of Fisheries Science and Technology Societies (KOFFST)
- President (2013), Vice President and Aquaculture Chapter President (2010), Editor-in- Chief for Fisheries and Aquatic Sciences (English Journal of KOSFAS, 2009 and 2010), The Korean Society of Fisheries and Aquatic Sciences (KOSFAS)
- Board of Director (2011- present), Aquaculture Without Frontiers (AwF, Int'l NGO)
- Advisory Committee (2011-2013) for Busan Int'l Seafood Expo, Busan Metro City
- Advisory Committee (2010-2012) for Korean Researcher Information, KRI
- Foundation Committee (2010) for Korea Fisheries Resources Agency, Ministry for Food, Agriculture, Forestry and Fisheries
- Committee (2010) for Research Planning Report of the Division of Life Sciences, Korea Research Foundation
- Immediate Past-President (2008-09), President (07-08), President-elect (06-07), World Aquaculture Society (WAS, www.was.org),
- External Board Member of Director (2007-09), Busan International Fisheries Exchange
- Advisor and Committee Chair (2006-07) for the Aquaculture Division of Vision 2030 of Ministry of Maritime Affairs and Fisheries,
- Editorial Board Member(2005 – Present), Journal of Asian Fisheries Society
- Member of Fisheries Research Management Committee (2004-06) for the Nat'l Fisheries Research and Development Institute
- President (2003-08) and Advisor (2009-Present), Vision 21 Korean Aquaculture Forum
- Board of Director(2003 – 06) World Aquaculture Society (WAS, www.was.org)
- Member of the Nat'l Vision 2012 Committee of Ministry of Sci. and Tech., 2002.02
- Editor (2002 – 06), J. Aquaculture (The official Journal of Korean Aquaculture Society)
- Associate Editor (2001 – present), The Journal of World Aquaculture Society (JWAS)
- Editorial Board Member (2000 – present), Aquaculture Research, Blackwell Science Ltd.
- Director (2000 – Present, the Key Research Institute Program from 2002 to 2004), Feeds and Foods Nutrition Research Center, Busan, Korea
- Visiting Professor (1999-2000), Dept. of Animal Sciences, Univ. of Calif. Davis, Calif.
- Chairman (1996 – 98), Dept. of Aquaculture, PKNNU, Busan, Korea
- Professor (2005-Present), Associate Prof. (1999-2004), Assistant Prof. (1995-99), Fulltime Lecturer (1993-95), Dept. of Marine Bio-materials and Aquaculture, PKNNU
- Visiting Assist. Professor (1993), Sch. of Nat. Resources, The Ohio State Univ., USA
- Postdoctoral Research Associate (1990-92), Department of Wildlife and Fisheries Sciences, Texas A & M University, College Station, TX
- Postgraduate Researcher (1990.01-09) and Graduate Research Assistant (1986-1990), Department of Physiological Sciences, School of Veterinary Medicine, UC Davis, CA

## **CURRENT GRANT and Other SUPPORTs:**

Korea Research Foundation (KRF) grant, \$660,000 (2007.4 – 2014.4) NFRDI funded research projects, \$150,000 (2009.05-2012.12)

Novus International funded PhD, MS student Scholarship and dissertation research, \$200,000 (2009.01 -2014.01)

FFNRC with 5 full time staffs made average \$100,000 per year for the last 5 years. Domestic Companies and Industry funded research projects over average \$100,000 per year for the last 5 years

Signed MOU with Kerala Agricultural University, India (present KUFOS) for collaboration

## **PROFESSIONAL MEMBERSHIP** World

Aquaculture Society (WAS) New York Academy of Sciences

American Society of Nutritional Sciences (ASNS).

The Korean Society for Chitin and Chitosan.

The Korean Society of Fisheries and Aquatic Science.

Vision 21 Korean Aquaculture Forum

The Korean Society for Fisheries and Marine Sciences Education

**AWARDS, SPECIAL INVITATION LECTURES & RECOGNITIONS for 5 years:**

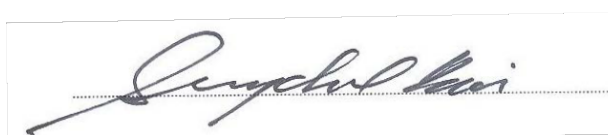
- 2011 Outstanding Teaching Award by President of Pukyong Nat'l Univ. (2011.12)
- Certificate of Appreciation Award by Minister, Ministry for Food, Agriculture, Forestry and Fisheries, Korea (2011)
- Certificate of Appreciation Award by WAS (2009)
- IBC Hall of Fame (2009) in the area of Scientific Research and Education (58<sup>th</sup> of 100)
- Appreciation Award by The Korean Aquaculture Society (2009)
- Recognition Award by The Korean Aquaculture Society (2009)
- American Medal of Honor Recipient (2008)
- IBC Top 100 Scientists award (2008)
- The Best Teaching Award in 2008 by President of Pukyong Nat'l Univ. (2008. 08)
- Recognition Award by World Aquaculture Society (2008)
- Special Invitation Lecture by Andrés Bello University, Chile (2008)
- Special Invitation Lecture by Indonesian Aquaculture Society, Indonesia (2008)
- Recognition Award by Kon-Kuk University, Seoul, Korea (2007)
- Guest Speaker & Visiting Professorship by Tianjin Agricultural Univ., China (2007)
- WAS-Latin American & Caribbean Chapter Plenary Session Speaker (2007)
- PhD Course 3 Credit Units (40 hrs) Outstanding International Lecturer at Pontificia Universidad Católica de Valparaíso, Chile (2006)
- Recognition for 10 Years Service at Pukyong Nat'l Univ. (2004)

**PUBLICATIONS:**

Books and Book Chapters	Peer Reviewed Journal Papers		Conference Proceedings,		Research Reports, Academic Essays, etc.		Patents	
	Int'l	Domestic	Int'l	Domestic	Int'l	Domestic	Registered	Applied
19	91	72	239	178	10	85	6	4

**Signature:**

**Sungchul C. Bai**



## PUBLICATION LIST

### I. Lists of Peer-Reviewed journal papers

#### 1.International

##### ► 2013

Won-Seok Heo, Yu-Ri Kim, Eun-Young Kim, Sungchul C. Bai, In-Soo Kong. (2013) "Effects of dietary probiotic, *Lactococcus lactis* subsp. *lactis* I2, supplementation on the growth and immune response of olive flounder (*Paralichthys olivaceus*)" *Aquaculture*. Vol. 376-379, pp. 20-24

Mahmoud Mohseni, Hamid Reza Pourali, Rezvan Kazemi & Sungchul C Bai (2013) "Evaluation of the optimum dietary protein level for the maximum growth of juvenile beluga (*Huso huso* L.1758)" *Aquaculture Research*. pp. 1-10

Mahmoud Mohseni, Mohammad Pourkazemi, Mohammad Reza Hosseini, Mir Hamed S. Hassani & Sungchul C. Bai. (2013) "Effects of the dietary protein levels and the protein to energy ratio in sub-yearling Persian sturgeon, *Acipenser persicus* (Borodin)" *Aquaculture Research*, 2013, 44, 378–387

##### ► 2012

Jun-Young Bae, Gunhyun Park, Kwang-Yeol Yoo, Jeong-Yeol Lee, Dae-Jung Kim and Sungchul C. Bai " Re-evaluation of the Optimum Dietary Vitamin C Requirement in Juvenile Eel, *Anguilla japonica* by Using L-ascorbyl-2-monophosphate " *Asian-Aust. J. Anim. Sci.* Vol. 25, No. 1 : 98 - 103 January 2012

N. DE RIU, K.K.ZHENG, J.W.LEE, S.H.LEE, S.C.BAI, G.MONIELLO & S.S.O. HUNG. "Effects of feeding rates on growth performances of white sturgeon (*Acipenser transmontanus*) fries" *Aquaculture Nutrition* 2012 18; 290-296

Mohseni M. Pourkazemi M. Hassani S. H. Okorie O.E. Min, T. S. Bai S. C. "Effects of different three live foods on growth performance and survival rates in Beluga (*Huso huso*) larvae Iranian Journal of Fisheries Sciences 11(1) 118-131

Mohseni, M., Park, G.H., Lee, J. H., Okorie, O. E., Browdy, C.L., Bharadwaj A.S. and Bai, S. C "Evaluation of Toxicity of Dietary Chelated Copper in Juvenile Olive Flounder, *Paralichthys olivaceus*, Based on Growth and Tissue Copper Concentration" *Journal of World Aquaculture Society*. Vol 43. No, 4

Jun-Young Bae, Gunhyun Park, Kwang-Yeol Yoo, Jeong-Yeol Lee, Dae-Jung Kim and Sungchul C. Bai "Evaluation of optimum dietary vitamin E requirements using DL- $\alpha$ -tocopheryl acetate in the juvenile eel, *Anguilla japonica*" *J. Applied Ichthyology*, 1-5

Okorie E. Okorie, Jun Young Bae, Jun-Ho Lee, Seunghyung Lee, Gun-Hyun Park Mahmoud Mohseni and Sungchul C. Bai "The safe and toxic dietary cadmium levels based on growth and tissue cadmium contents in juvenile parrotfish" *Asian-Aust. J. Anim. Sci.* Accepted

##### ► 2011

U. Arshad, G. A. Takami, M. Sadeghi, S. Bai, H. R. Pourali and S. Lee "Influence of dietary l-selenomethionine exposure on growth and survival of juvenile *Huso huso* " *Journal of Applied Ichthyology* 2011. 27.761-765 (28.Mar 2011) (2)

- M. Mohseni, M. H. S. Hassani, F. H. Pourali, M Pourkazemi and S. C. Bai "The optimum dietary carbohydrate / lipid ratio can spare protein in growing beluga, *Huso huso* " Journal of Applied Ichthyology 2011. 27. 775-780 (28.Mar 2011) (2)
- J.-Y. Bae, I.-H. Ok, S. Lee, S. S. O. Hung, T. S. Min and S. C. Bai "Reevaluation of dietary methionine requirement by plasma methionine and ammonia concentrations in surgically modified rainbow trout, *Oncorhynchus mykiss*" Journal of Applied Ichthyology 2011. 27. 887-891 (5 MAY 2011)( 3)
- Jang-Won Lee, Nicola De Riu, Seunghyung Lee, Sungchul C. Bai, Giuseppe Moniello, Silas S.O. Hung. "Effects of dietary methylmercury on growth performance and tissue burden in juvenile green (Acipenser medirostris) and white sturgeon (*A. transmontanus*)" Aquatic Toxicology 2011. 105 227-234
- Okorie E. Okorie, Su Hong Ko, Sugeun Go, and Jun-Young Bae, Gwang Yeol Yoo, Jun-Ho Lee, Tae-Ik Kim, Sungchul C. Bai "Preliminary study of the optimum dietary riboflavin level in sea cucumber, *apostichopus japonicus*(Selenka)" Journal Of The World Aquaculture Society 2011. 42. (5) 657-666
- Jun-Young Bae, Gunhyun Park, Hyeonho Yun, Silas S.O. Hung & Sungchul C. Bai a "The dietary valine requirement for rainbow trout, *Oncorhynchus mykiss*, can be estimated by plasma free valine and ammonia concentrations after dorsal aorta cannulation" Journal of Applied Animal Research 04 December 2011
- Jun-Young Bae. Gun Hyun Park. Jeong-Yeol Lee. Okorie Eme Okorie. Sungchul C. Bai "Effects of dietary propolis supplementation on growth performance, immune responses, disease resistance and body composition of juvenile eel, *Anguilla japonica*" Aquaculture Int 05 October 2011
- Mahmoud Mohseni, Mohammad Pourkazemi, Mohammad Reza Hosseni, Mir Hamed S. Hassani & Sungchul C. Bai "Effects of the dietary protein levels and the protein to energy ratio in sub-yearling Persian sturgeon, *Acipenser persicus* (Borodin) Aquaculture Research, 2011, 1 -10

► **2010**

- SEUNGHYUNG LEE, JUN-HO LEE, Silas S. O. Hung AND SUNGCHUL C. BAI " Evaluation of the dietary toxic level of selenium(se) in juvenile olive flounder, *Paralichthys olivaceus* Journal of the world aquaculture society 2010, vol41 No. S2 245-254
- Jun-Young Bae, Dae-Jung Kim<sup>1</sup>, Kwang-Yeol Yoo, Sun-Gyu Kim, Jeong-Yeol Lee and Sungchul C. Bai "Effects of Dietary Arachidonic Acid (20:4n-6) Levels on Growth Performance and Fatty Acid Composition of Juvenile Eel, *Anguilla japonica*" Asian-Aust. J. Anim. Sci. 2010. 23(4), 508-514
- A.M. Bakke, D.H. Tashjian, C.F. Wang, S.H. Lee, S.C. Bai, S.S.O. Hung "Competition between selenomethionine and methionine absorption in the intestinal tract of green sturgeon(*Acipenser medirostris*)" Aquatic Toxicology 2010, 96, 62-69

► **2009**

- Dong-Fang Deng, Chunfang Wang, Seunghyung Lee, Sungchul Bai, Silas S.O. Hung Feeding rates affect heat shock protein levels in liver of larval white sturgeon(*Acipenser transmontanus*), Aquaculture, 207(2009), 223-226.
- Su Hong Ko, Sugeun Go, Okorie Eme Okorie, Young Chul Kim Seunghyung Lee, Gwang Yeol Yoo and Sungchul C. Bai, "Preliminary Study of the Dietary  $\alpha$ -Tocopherol Requirement in Sea Cucumber, *Apostichopus Japonicus* " JWAS Vol. 40, No. 5 pp659-666 (2009)

► **2008**

- S. H Lee, J. H Lee and S. C. Bai A Preliminary Study on Effects of Different Dietary Selenium(Se) Levels on Growth Performance and Toxicity in Juvenile Black Seabream, *Acanthopagrus schlegelii* (Bleeker), Sci. Asian-Aust. J. Anim. Sci.,21(12), 1794

- Okorie E. Okorie, S. H. Ko, S. G. Go, S. H. Lee, J. Y. Bae, K. G. Han and S. C. Bai “Preliminary Study of the Optimum Dietary Ascorbic Acid Level in Sea Cucumber, *Apostichopus japonicus* (Selenka), JWAS, 39(6), 758-765.
- M. Mohseni, R.O.A. Ozorio, M. Pourkazemi and S.C. Bai. Effects of dietary L-carnitine supplements on growth and body composition in beluga sturgeon (*Huso huso*) juvenile, Journal of Applied Ichthyology 2008, 646-649
- Y. C. Kim, G. Y. Yoo, X. WANG, S. H. Lee, I. S. Shin, S. C. Bai “Long Term Feeding Effects of Dietary Dehulled Soybean Meal as a Fish Meal Replacer in Growing Olive , Asian-Australasian Journal Of Animal Sciences” 21(6), 868-872

► 2007

- G. E. Hong, D. G. Kim, S. H. Ahn, S. C. Bai and I. S. Kong “Species-specific PCR detection of the fish pathogen, *Vibrio anguillarum* , using the *amiB* gene, which encodes N -acetylmuramoyl-L-alanine amidase. FEMS Microbiol Lett 269 pp.201-206
- G. y. Yoo, S. H. Lee, Y. C. Kim, O. E. Okorie, G. J. Park, Y. O. Han, S. M. Choi, J. C. Kang, M. Sun, and S. C. Bai “Effects of Dietary  $\beta$ -1, 3 glucan and Feed Stimulants in Juvenile Olive Flounder *Paralichthys olivaceus*.” JWAS vol.38(1), pp.138-145
- G. y. Yoo, S. H. Lee, G. J. Park, S. M. Choi, O. E. Okorie, Y. C. Kim, K. W. Kim, Y. J. Kang and S. C. Bai “Effects of Dietary Recombinant Bovine Somatotropin (rBST) Level on Growth, Plasma rBST Concentrations and Body Composition of Juvenile Korean Rockfish, *Sebastes schlegeli*.” JWAS, Vol. 38(2), pp.200-207
- O. E. Okorie, Y. C. Kim, S. H. Lee, J. H. Bae, J. H. Yoo, K. M Han and S. C. Bai. “Reevaluation of the Dietary Protein Requirements and Optimum Dietary Protein to Energy Ratios in Japanese Eel, *Anguilla japonica*.” JWAS, vol.38(3), pp.418-426.
- M. Sun, Y. C. Kim, O. E. Okorie, S. Devnath, G. Y. Yoo, S. H. Lee, Y. K. Jo and S. C. Bai “Use of fermented fisheries by-products and soybean curd residues mixture as a fish meal replacer in diets of juvenile olive flounder, *Paralichthys olivaceus*,” JWAS, vol.38(4), pp.543-549.
- M. Sun, Y. C. Kim, O. E. Okorie, S. H. Lee, S. Devnath, G. Y. Yoo and S. C. Bai “Evaluation of Fermented Soybean Curd Residues as an Energy Source in Diets for Juvenile Olive Flounder, *Paralichthys olivaceus*,” JWAS, vol.38(4), pp.536-542.

► 2006

- Y. TAOKA, H. MAEDA, J. Y. JO, M. J. JEON, S. C. BAI, W. J. LEE, K. YUGE AND S. KOSHIO “Growth, stress tolerance and non-specific immune response of Japanese flounder *Paralichthys olivaceus* to probiotics in a closed recirculating system” Fisheries Science vol.72, pp.310-321

► 2005

- G. Y. Yoo, X. Wang, S.M. Choi, K. M. Han, J. C. Kang, S. C. Bai “Dietary microbial phytase increased the phosphorus digestibility in juvenile Korean rockfish *Sebastes schlegeli* fed diets containing soybean meal” Aquaculture vol.243 (2005) pp.315- 322
- J. G. Koo, S. G. Kim, J. H. Jee, J. M. Kim, S. C. Bai and J. C. Kang “Effects of ammonia and nitrite on survival, growth and moulting in juvenile tiger crab, *Orithyia sinica* (Linnaeus)” Aquaculture Research, vol.36 2005, , pp.79-85
- X. WANG, S. M. CHOI, S. H. PARK, G. y. YOO, K. w. KIM, J. C. KANG and S. C. Bai “Optimum dietary phosphorus level of juvenile Japanese flounder *Paralichthys olivaceus* reared in the recirculating system” FISHERIES SCIENCE 2005; vol.71 pp.168-173

- G. J. Park, S. C. Bai, I. H. Ok, K. M. Han, S. S. O. Hung Q. R. Rogers and T. S. Min “Post Prandial Plasma Free Arginine Concentrations Increase in Rainbow Trout Fed Arginine-deficient Diets” *Asian-Aust. J. Anim. Sci.* 2005. Vol 18, No. 3 pp. 396-402
- K. W. Kim, Y. J. Kang, S. M. Choi, X. Wang, Y. H. Choi, S. C. Bai, J. Y. Jo, J. Y. Lee “Optimum dietary protein levels and protein to energy ratios in olive flounder, *Paralichthys olivaceus*” *JWAS*, vol. 36, No. 2, pp.165-178
- K. M. Han, I. Geurden, P. V. D. Meeren, S. C. Bai, P. Sorgeloos “Particle size distribution in two lipid emulsions used for the enrichment of *Artemia* nauplii as a function of their preparation method and storage time” *JWAS*, vol. 36, No. 2, pp.196-202
- S. M. Choi, K. W. Kim, Y. J. Kang, X. Wang, J. W. Kim, G. Y. Yoo, S. C. Bai “Reevaluation of the phosphorus requirement of juvenile olive flounder *Paralichthys olivaceus* and the bioavailability of various inorganic phosphorus sources” *JWAS*, vol.36, No. 2, pp. 217-222
- H. A. Lim, S. C. Bai, and W. K. NG “Apparent nutrient digestibility and amino acid availability of several novel protein sources for tilapia, *Oreochromis mossambicus*” *J. Aqua. Trop.* Vol. 20(3), pp.209-222

► 2004

- S.M. Choi, X. J. Wang, S. R. Lim, K.W. Kim, S.C. Bai and I.S. Shin “Dietary dehulled soybean meal as a replacement for fish meal in fingerling and growing olive flounder, *Paralichthys olivaceus* (Temminck et Schlegel).” *Aquaculture Research* vol. (35) 2004, pp. 410-418.
- S.R. Lim, S.M. Choi, X.J. Wang, K.W. Kim, I.S. Shin, T.S. Min and S.C. Bai (2003) “Effects of dehulled soybean meal as a fish meal replacer in diets for fingerling and growing Korean rockfish *Sebastes schlegeli*.” *Aquaculture* vol.(231) 2004, pp. 457-468.
- K. W. Kim, X. Wang and S. C. Bai “Evaluation of optimum dietary protein to energy ratio in juvenile olive flounder *Paralichthys olivaceus* (Temminck et Schlegel).” *Aquaculture Research* vol.(35) 2004, pp.250-255.
- K. W. Kim, X.J. Wang, K.M. Han, S. C. Bai, J.C. Kang “Optimum dietary protein level and protein-to-energy ratio for growth of juvenile Korean Rockfish *Sebastes schlegeli*.” *JWAS* vol.35(3) 2004, pp.305-314.

► 2003

- X. Wang, K-W Kim, S. C. Bai, M. D. Hur and B. R. Cho “Effects of the different levels of dietary vitamin C on growth and tissue ascorbic acid changes in parrot fish (*Oplegnathus fasciatus*)” *Aquaculture*, vol. 215, 2003, pp. 203-211.
- D. F. Deong, S. Koshio, S. Yokoyama, S. C. Bai, Y. Cui, Q. Shoa, and S. S. O. Hung “Effect of feeding rates on growth performance of white sturgeon larvae”, *Aquaculture*, vol. 217, 2003, pp. 589-598.
- X. Wang, K. W. Kim, S. C. Bai “Comparison of L-ascorbyl-2-monophosphate-Ca with L-ascorbyl-2-monophosphate-Na/Ca on growth and tissue ascorbic acid concentrations in Korean rockfish (*Sebastes schlegeli*)” *Aquaculture* vol. 225(2003) pp.387-395
- K.W. Kim, X. Wang, S. C. Bai “Reevaluation of the Dietary Protein Requirement of Japanese Flounder *Paralichthys olivaceus*” *Journal of WAS* Vol. 34(2) pp.133-139, 2003
- K. W. Kim, X. Wang, J. W. Koo and S. C. Bai (2003) “No synergistic effects by the dietary supplementation of ascorbic acid,  $\alpha$ -tocopheryl acetate and selenium on growth performance and challenge test of *Edwardsiella tarda* in fingerling Nile tilapia, *Oreochromis niloticus* L.” *Aquaculture Research* vol. 34, 12, pp.1053-1058.
- T. Yanik, K. Dabrowski and S. C. Bai (2003) “Replacing fish meal in rainbow trout (*Oncorhynchus mykiss*) diets” *The Israeli Journal of Aquaculture - Bamidgah* vol. 55(3), 2003, pp. 179-186

X. Wang, K. W. Kim, H. k. Jun, S. C. Bai “Evaluation of L-ascorbyl-2-glucose as the source of vitamin C for juvenile Korean rockfish *Sebastes schlegeli*(Hilgendorf)”, *Aquaculture Research* vol. (34) 2003, pp.1337-1341

► 2002

- K. H. Kim, Y. J. Hwang, K. W. Kim, S. C. Bai and D. S. Kim “Effects of dietary aloe on chemiluminescent responses of peripheral blood phagocytes and resistance against *Edwardsiella tarda* Ewing and McWhorter 1965 in the cultured olive flounder, *Paralichthys olivaceus* (Temminck et Schlegel)” *Aquaculture research*, vol. 33, pp. 147-150.
- X. Wang, K. W. Kim, S. C. Bai (2002) “Effects of different dietary levels of L-ascorbyl-2-polyphosphate on growth and tissue vitamin C concentrations in juvenile olive flounder, *Paralichthys olivaceus* (Temminck et Schlegel)” *Aquaculture research*, vol. 33, pp. 261-267.
- S. C. Bai(2002) “Dietary protein level and protein/energy ratios for optimum growth of olive flounder” *Global Aquaculture Advocate*, vol.5, pp. 34-35.
- K. W. Kim, X. J. Wang and Bai(2002) “Optimum dietary protein level for maximum growth of juvenile olive flounder *Paralichthys olivaceus* (Temminck et Schlegel)” *Aquaculture research*, 2002, vol.33, pp. 673-679.
- K. J Lee, K. Dabrowski, J. H. Blomm, S. C. Bai and P. C. Stromberg(2002) “A mixture of cottonseed meal, soybean meal and animal byproduct mixture as a fish meal substitute: growth and tissue gossypol enantiomer in juvenile rainbow trout” *J. Anim. Physiol. a. Anim. Nutr.* vol.86, 2002.
- K. W. Kim, X. Wang, S. M. Choi, S. C. Bai, Y. H. Choi and S. H. Choi(2002) “Long-term evaluation of extruded diets compared with raw fish moist diet for growing Korean rockfish, *Sebastes schlegeli* (Hilgendorf)” *Aquaculture Research*, vol. 33(12).
- K. W Kim, S. C. Bai, J. W. Koo, X. Wang and S. K Kim(2002) “Effects of Dietary *Chlorella ellipsoidea* Supplementation on Growth, Blood Characteristic and Whole-body Composition in Juvenile olive Flounder *Paralichthys olivaceus*.” *Journal of World Aquaculture Society*, vol. 33(4), 2002, pp. 425-431.
- K. D. Kim, S. M. Lee, H. G. Park, S. C. Bai and Y. H. Lee (2002) “Eseentiality of Dietary n-3 Highly Unsaturated Fatty Acids in juvenile Japanese Flounder, *paralichthys olivaceus*.” *Journal of World Aquaculture Society*, vol. 33(4).

► 2001

- S. C. Bai, Y. T. Cha and X. Wang “A preliminary study on the dietary protein requirement of Japanese flounder larvae, *Paralichthys olivaceus*” *North American Journal of Aquaculture*, vol. 63, pp. 92-98.
- K. J. Lee, K. Dabrowski, J.H. Blom., and S. C. Bai “Replacement of fish meal by a mixture of animal by-products in juvenile rainbow trout diets” *North American Journal of Aquaculture*, vol. 63, pp. 109-117.
- J. W. Koo, S. C. Bai, K.W. Kim and S. K. Kim “Optimum dietary level of *Chlorella* powder as a feed additive for growth performance of juvenile olive flounder, *Paralichthys olivaceus*” *Journal of applied aquaculture*, Vol. 11(1), pp. 55 - 66.
- S. C. Bai “Control of dietary phosphorus in flounder culture” *Global Aquaculture Advocate*, vol. 4, pp. 51-52
- S. C. Bai and K. W. Kim “Present status and future prospects of aquaculture in Korea” *World Aquaculture*, Vol. 32(2), pp. 28-31.
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**3. Top Ten Journals in the area of I) Aquaculture, II) Nutrition, III) Environmental Science and IV) Fisheries in 2011**

Rank	I. Aquaculture	Impact Factor	II. Nutrition	Impact Factor	III. Environmental Science	Impact Factor	IV. Fisheries	Impact Factor
1	Aquaculture	2.041	J NUTR	3.916	Aquatic	3.761	FISH FISH	5.800

					Toxicology			
2	Aquaculture Engineering	1.421	J NUTR BIOCHEM	3.891	Environmental	3.746	FISH SHELLFISH	3.322
3	Aquaculture	1.203	Nutrition	3.025	Environmental	3.398	Fisheries	2.367
4	Aquaculture International	0.912	J NUTR HEALTH	2.686	International Journal of Environmental	3.051	Fisheries Oceanography	2.044
5	Journal of Aquatic Animal Health	0.833	Aquaculture nutrition	2.179	Environmental Science and Pollution	2.651	Journal of Fish Disease	2.000
6	Journal of the World Aquaculture Society	0.708	NUTR RES	1.974	Journal of Environmental Quality	2.324	FISH RES	1.586
7	Journal of Applied Animal	0.400	Food Nutr Bull	1.922	Ecotoxicology And Environmental	2.294	Fish Physiology & Biochem	1.528
8	Aquaculture and Fisheries International		J NUTR SCI VITAMIN	1.199	Journal of Toxicology and Environmental	1.830	J. FISH BIOL	1.685
9	Journal of		NUTR DIET	0.875	Journal of Environmental Science	1.660	N Amer J Fisheries Manageme	0.943
10	Aquaculture Economics and		NUTR CLIN METAB	0.333	American Journal of		FISHERIES SCI	0.766

#### 4. PUBLICATIONS SUMMARY-Sungchul Bai:

Books and Book Chapters	Peer Reviewed Journal Papers		Conference Proceedings,		Research Reports, Academic Essays, etc.		Patents	
	Int'l	Domestic	Int'l	Domestic	Int'l	Domestic	Registered	Applied
19	91	72	214	174	10	85	6	4

#### II. MS and PhD Thesis and Dissertation

S. C. Bai "Effects of the level of dietary protein on vitamin B-6 status and PLP dependent hepatic tyrosine aminotransferase in Cats", Ph.D. Dissertation, University of California, School of Veterinary Medicine, Davis, California.

S. C. Bai "The effects of various fats upon the digestion of nutrients in the fistulated dairy cows" M.S. Thesis. California State University, Fresno, California.



### III. Books and Book Chapters

- S. C. Bai (One of 27 editors), Nutrient's Metabolism & Feeds in Fish, Edited by Sungchul Bai, Published by Pukyong National University Press Pusan, Korea 2012
- S. C. Bai (One of 2 editors), Fisheries and aquaculture business, Pukong National University 2010
- S. C. Bai (One of 60 editors), The Rising Tide (proceedings of the special session on sustainable shrimp farming), Edited by Craig L. Browdy and Darryl E. Jory, Published by World Aquaculture Society 2009 ISBN 978-1-888807-08-0
- S. C. Bai (One of 12 editors), Flounder field guidebook, Sinkwang Press Seoul, Korea 2007
- S. C. Bai (One of 9 editors), Explore the aquafarm field, Segong Press, Seoul, Korea 2007
- S. C. Bai (One of 6 editors), Extruded Feed Technology-Fish and Companion Animal Feeds processing, MunUnDang Press, Seoul, Korea, 2005, ISBN 89-7393-322-1
- S. C. Bai (One of 25 editors), Present and future of domestic and international aquaculture and fish feed industries, Special Task Force for the Development of Marine Food Resources, PKNU, 2002
- S. C. Bai, Xiaojie Wang and K. W. Kim, "Present status and future prospects of the world aquaculture : The Korean perspective" Proceedings of International Conference on Impacts of Population and Markets on the Sustainability of Ocean and Coastal Resources: The Perspective of Developing and Transition Economics of the North Pacific, Seattle, pp. 155-177. June 3-4, 2002.
- S. C. Bai (One of 19 editors), Development of feed additives for growth and immune enhancement of fish (Ch III. Of Advanced Fisheries Technology and Policy), College of Fisheries Sciences, Pukyong National University, 2002.
- S. C. Bai, Nutrition and Feeds (Ch. V. of Aquaculture (1), National High School Textbook) pp.127-148, 2002. S. C. Bai, Development of feed stimulants and immune inhanement feeds for marine fis, ERC, Pukyong National University, 2001
- S.C. Bai et al., "Ascorbic Acid in Aquatic Organisms" CRC Press, 2001
- S. C. Bai et al., Aquaculture Feeds and Nutrition, SamKwang Press, Seoul, Korea, 1998
- S. C. Bai et al., Fish Nutrition and Feeds, SamKwang Press, Seoul 1998.
- S. C. Bai (One of 8 editors). Present and future of marine and fisheries policy, College of Fisheries Sciences, Pukyong National University, May, 1997.
- S. C. Bai, Fish Nutrition & Fees, ChungMunGak Press, Seoul, Korea 1997.
- S. C. Bai, Nutrition and Feeds (Ch. V. of Aquaculture (1), National High School Textbook) pp.127-148, 1996
- S. C. Bai (One of 14 editors), Fish Biology, JungMunGak Press, Seoul, Korea, 1995
- S. C. Bai (One of 8 editors), "Global cooperation and developmental strategy of fisheries industry", College of Fisheries Science, National Fisheries University of Pusan, Nov. 1995.

## IV. Conference Proceedings

### 1. International

#### ► 2013

- Sungchul C. Bai, Jun-Ho Lee, Gunhyun Park and Hyeonho Yun. "Review on dietary protein requirements and p/e ratios in olive flounder *Paralichthys olivaceus*" Aquaculture America 2013 Feb. 21-25, Nashville, Tennessee USA
- Seung-han lee, Jun-ho Lee, Gun Hyun Park, Hyeonho Yun, Jun-hyeok Lee, Young-kwang Lee, Sungchul C. Bai "DETOXIFICATION EFFECTS OF DIETARY SELENIUM LEVELS ON MERCURY DETOXIFICATION IN JUVENILE OLIVE FLOUNDER *Paralichthys olivaceus*" Aquaculture America 2013 Feb. 21-25, Nashville, Tennessee USA
- Young-kwang Lee, Jun-ho Lee, Gunhyun Park, Hyeonho Yun, Kumar Katya, Sharhkar Erfan, Seung-han Lee, Sungchul C. Bai. "PROTECTIVE EFFECTS OF DIETARY VITAMIN E LEVELS ON MERCURY TOXICITY IN JUVENILE OLIVE FLOUNDER, *Paralichthys olivaceus*" Aquaculture America 2013 Feb. 21-25, Nashville, Tennessee USA
- Kumar Katya, Jun-ho Lee, Gunhyun Park, Hyeon-ho Yun, Shahkar Erfan, Seung-han Lee, Young-kwang Lee & Sungchul C. Bai. "PROTECTIVE EFFECTS OF DIETARY ASCORBIC ACID LEVELS ON MERCURY TOXICIFY IN JUVENILE OLIVE FLOUNDER, *Paralichthys olivaceus*" Aquaculture America 2013 Feb. 21-25, Nashville, Tennessee USA
- Bong-Joo Lee, Kang-Woong Kim, Cheul-Min An, Kyoung-Duck Kim, Hyon-Sob Han, Taek Jeong Nam, Kyeong-Jun Lee, and Sungchul C. Bai. "EFFECT OF DIETARY GLYCOPROTEIN EXTRACTED FROM PORPHYRA ON GROWTH PERFORMANCE AND RESISTANCE AGAINST *Edwardsiella tarda* IN JUVENILE OLIVEFLOUNDER *Paralichthys olivaceus*" Aquaculture America 2013 Feb. 21-25, Nashville, Tennessee USA
- Mohanakumaran Nair C, Shyla G, Salin K.R, Devika Pillai, Kumar Katya, Sungchul C. Bai. "Comparison of disease resistance of three stocks and its diallelic crosses of *Macrobrachium rosenbergii* juveniles" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Rajani Vadthya, Basheer. V.S, Dinesh. K, Sungchul C. Bai, Kumar Katya. "Development of cryopreservation protocol of spermatozoa of an endangered Cat fish, *Horabagrus nigricollaris* from the western ghats, India" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Femeena hassan, Charles jeeva J, Kumar Katya, Sungchul C Bai. "Location specific intervention for the empowerment of coastal women: an experience in Kerala" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Dinesh K, Sathyavathy C.R., Daisy C Kappen, Binoo Bonny, Sungchul C Bai, Kumar Katya, Sarath V.S. "On-the job effort and contribution towards subsistence by three distinct groups of women fisher-folk of Kerala, India" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Gunhyun Park, Jun-Ho Lee, Hyeonho Yun, Sungchul C Bai. "Effects of dietary organic & inorganic mercury on growth performance and tissue" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Kumar Katya, Gunhyun Park, Sungchul C Bai. "Review of macro nutrient requirements in Japanese Eel, *Anguilla japonica*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Mizanur Rahman, Gunhyun Park, Jun-Ho Lee, Hyeonho Yun, Sungchul C Bai. "Effects of feeding rates and water temperature on growth performances and body composition of growing Korean Rockfish, *Sebastes schlegeli*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea

- Sera Choi, Gwangyeol Yoo, Gunhyun Park, Hyeonho Yun, Sungchul C Bai. "The optimum dietary protein level in juvenile Yellow Puffer, *Takifugu ovscurus*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Seunghan Lee, Gunhyun Park, Hyeonho Yun, Youngjin Park, Jason Mann, Bakshish Dosanjh, Sungchul C Bai. "Evaluation of extruded pellets and raw fish-based moist pellets in juvenile Olive Flounder, *Paralichthys olivaceus*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Youngkwang Lee, Gwangyeol Yoo, Gunhyun Park, Hyeonho Yun, Sungchul C Bai. "The optimum dietary lipid level in juvenile Yellow Puffer, *Takifugu ovscurus*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Sungchul C Bai, Kumar Katya, Gunhyun Park, Hyeonho Yun, Youngkwang Lee. "Dietary vitamin C requirements in Marine Teleost" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Erfan Shahkar, Hyeonho Yun, Gunhyun Park, Inkwon Jang, Soo Kyung Kim, Sungchul C Bai "Effects of different dietary protein levels on growth, body composition, haemolymph indexes and rearing water quality in juvenile Whiteleg Shrimp, *Litopenaeus vannamei*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Jun-ho Lee, Gunhyun Park, Hyeonho Yun, Jin-hyoek Lee, Sungchul C Bai. "Evaluation of dietary three heavy metals (mercury, cadmium and selenium) toxicity threshold levels in juvenile Olive Flounder, *Paralichthys olivaceus*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Yu-ri Kim, Won-seok Heo, Eun-young Kim, Sungchul C. Bai, In-soo Kong. "Effects of dietary probiotic, *Lactococcus lactis* subsp. *lactis* I2, on the growth and immune response of Olive Flounder, *Paralichthys olivaceus*" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Hyeonho Yun, Gunhyun Park, Erfan Shahkar, Inkwon Jang, Soo Kyung Kim, Sungchul C Bai. "Effects of different dietary protein levels on growth performance, body composition of juvenile Whiteleg Shrimp (*Litopenaeus vannamei*) reared in biofloc system" 10th AFAF, CAA4 2013 April. 30 - May 04, Yeosu, Korea
- Sungchul C. Bai, Gunhyun Park and Kumar katya. "Current status and future vision in korea aquaculture" The first Korea-china-japan Joint symposium on aquaculture.
- Kumar Katya\*, Hyeonho Yun, Gunhyun Park, Anant S. Bharadwaj, Craig L. Browdy, Min Anh Pham and Sungchul C. Bai. "EVALUATION OF EFFICACY OF CHELATED AND INORGANIC TRACE MINERAL PREMIXES IN KOREAN ROCKFISH (*Sebasteschlegeli*)" Asian-Pacific Aquaculture 2013 December. 10-13, Ho Chi Min City, Vietnam
- Gunhyun Park, Erfan shahkar, Hyeonho Yun, Youngkwang Lee, Jeong-Yeol Lee and Sungchul C. Bai. "EFFECTS OF DIFFERENT DIETARY LEVELS OF DL -  $\alpha$ -TPCOPHERYL ACETATE ON TOCOPHEROL ACCUMULATION IN BRAIN, LIVER, KIDNEY AND REPRODUCTIVE TISSUES IN JAPANESE EEL (*Anguillajaponica*)" Asian-Pacific Aquaculture 2013 December. 10-13, Ho Chi Min City, Vietnam
- Gunhyun Park, Erfan shahkar, Hyeonho Yun, Youngkwang Lee, Jeong-Yeol Lee and Sungchul C. Bai. "EFFECTS OF DIFFERENT DIETARY LEVELS OF L-ASCORBLY-2-MONOPHOSPHATE ON ASCORBIC ACID ACCUMULATION IN BRAIN, LIVER, KIDNEY AND REPRODUCTIVE TISSUE IN JAPANESE EEL(*Anguillajaponica*)" Asian-Pacific Aquaculture 2013 December. 10-13, Ho Chi Min City, Vietnam
- Hyeonho Yun, Gunhyun Park, Kumar Katya, Jeong-Yeol Lee & Sungchul C. Bai. "ORGANIC AQUACULTURE PERSPECTIVES IN KOREA" Asian-Pacific Aquaculture 2013 December. 10-13, Ho Chi Min City, Vietnam

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- Gunhyun Park, Jun-Ho Lee, Hyeonho Yun, Jin-Hyuk Lee and Sungchul C. Bai. "The optimum feeding rate at three different water temperature in juvenile Korean rockfish (*Sebastes schlegeli*)" 10th Japan-Korea, Korea-Japan Joint Symposium on Aquaculture 2012 Dec. 8-9, Nagasaki University, Nagasaki, JAPAN
- Sungchul C. Bai, "Aquatic resources in the diet of Korean people: Aquaculture future prespective""ASIAN FISHERIES SOCIETY INDIAN BRANCH 2012 Dec. 4-6, Mangalore, India
- Sungchul C. Bai, Kumar katya and Hyeonho Yun. "Aquafeed Sustainability: Fish Meal & Fish Oil Prospects" ASIAN FISHERIES SOCIETY INDIAN BRANCH 2012 Dec. 4-6, Mangalore, India
- Sungchul C. Bai, Jun-Ho Lee and Gunhyun Park. "Reviews on toxicity of selenium in fish" 2nd Korea-China Joint Seminar on Selenium 2012 Oct. 31-Nov. 2, Seoul, Korea
- Jun-Ho Lee, Gun Hyun Park, Hyeon ho Yun, Jin-hyoek Lee and Sungchul C. Bai. "Protective effect of dietary selenium against mercury toxicity in juvenile olive flounder, *Paralichthys olivaceus*" 2nd Korea-China Joint Seminar on Selenium 2012 Oct. 31-Nov. 2, Seoul, Korea
- Sungchul C. Bai, Gunhyun Park, Jeong-Yeol Lee. "Feeding and nutrition of olive flounder". AQUA 2012 Sep 1-5, Prague, Czech Republic
- Erfan Shahkar, Kumar Katya, Jeong-Yeol Lee, Sungchul C. Bai. "Effects of photoperiod on growth performance, mortality and hematological responses in fingerling common carp, *Cyprinus carpio*". AQUA 2012 Sep 1-5, Prague, Czech Republic
- Mahmoud Mohseni, Gun-Hyun Park, Jun-Ho Lee, Okorie Eme Okorie, Jun-Young Bae, Craig Browdy, Anant Bharadwaj and Sungchul C. Bai. "Effects of dietary organic and inorganic on growth, hematological parameters and accumulation in the juvenile olive flounder, *Paralichthys olivaceus*. Australasian Aquaculture 2012 May 1-4, Victoria Australia
- Erfan Shahkar, Mahmoud Mohseni and Sungchul C. Bai. "Effects of four different salinities on the hematological responses of fingerling persian sturgeon, *Acipenser persicus*. Australasian Aquaculture 2012 May 1-4, Victoria Australia
- Mehrdad Farhnagi, Omid Safari, Chris Carter, Bagher Yakhchali, Parvin Shawrang, Masoomeh Mehraban Sang Atash and Sungchul Charles Bai. "Effect of different dietary inclusion levels of fermented canola protein concentrate made with *Rhizopus microsporus var. oligosporus* on growth, feed efficiency and liver uricase activity in rainbow trout, *Oncorhynchus mykiss*. Australasian Aquaculture 2012 May 1-4, Victoria Australia
- Rochana Weerasingha, Gunhyun Park, Dong-Mok Lee, Woo Jong Lee, Soo-Hong Kim and Sungchul C. Bai. "Effects of dietary macsumsuc supplementation on growth performance and disease resistance of juvenile white leg shrimp, *Litopenaeus vannamei*". Australasian Aquaculture 2012 May 1-4, Victoria Australia
- Erfan Shahkar, Gunhyun Park, Dong-Mok Lee, Woo Jong Lee, Soo-Hong Kim and Sungchul C. Bai. "Effects of five different dietary macsumsuc levels on growth performance and disease resistance of juvenile nile tilapia, *Oreochromis niloticus*". Australasian Aquaculture 2012 May 1-4, Victoria Australia
- Mehrdad Farhangi\*, Omid Safari, Chris Carter, Bagher Yakhchali, Parvin Shawrang, Masoomeh Mehraban Sang Atash and Sungchul Charles Bai "PRODUCING CANOLA PROTEIN CONCENTRATE USING A NOVEL APPROACH: SOLID STATE FERMENTATION OF PROCESSED CANOLA MEAL WITH *Neurospora sitophila* AS A FISH MEAL REPLACEMENT FOR RAINBOW TROUT *Oncorhynchus mykiss*" Aquaculture America 2012 February 29 - March 2, Las vegas, Nevada
- Mehrdad Farhangi\*, Omid Safari, Chris Carter, Bagher Yakhchali, Parvin Shawrang, Masoomeh Mehraban Sang Atash and Sungchul Charles Bai "IN VIVO AND IN VITRO DIGESTIBILITY OF DIFFERENT FERMENTEDLY PROCESSED CANOLA PROTEIN CONCENTRATES (BY *Neurospora sitophila* AND

*Rhizopus microsporus var. oligosporus*) IN RAINBOW TROUT *Oncorhynchus mykiss*" Aquaculture America 2012 February 29 - March 2, Las Vegas, Nevada

Mehrdad Farhangi\*, Omid Safari, Chris Carter, Bagher Yakhchali, Parvin Shawrang, Masoomeh Mehraban Sang Atash and Sungchul Charles Bai "EFFECT OF DIFFERENT DIETARY INCLUSION LEVELS OF FERMENTEDLY PROCESSED CANOLA PROTEIN CONCENTRATE (WITH *Rhizopus microsporus var. oligosporus*) ON GROWTH, FEED EFFICIENCY AND LIVER URICASE ACTIVITY IN RAINBOW TROUT *Oncorhynchus mykiss*" Aquaculture America 2012 February 29 - March 2, Las Vegas, Nevada

Hyeonho Yun, Sungchul C. Bai, In Kwon Jang, Eun-Ji Kim and Jeong-Yeol Lee "REEVALUATION OF THE OPTIMUM DIETARY PROTEIN REQUIREMENTS OF JUVENILE WHITE LEG SHRIMP, *Litopenaeus vannamei* (BOONE, 1931)" Aquaculture America 2012 February 29 - March 2, Las Vegas, Nevada

Hyeonho Yun, Jun-Ho Lee, Gunhyun Park, Sungchul C. Bai, In Kwon Jang, Jindong Kim, Sejin Lim and Jeong-Yeol Lee "EFFECTS OF DIETARY PROTIDE® AS A FISH MEAL REPLACER IN JUVENILE WHITE LEG SHRIMP, *Litopenaeus vannamei* (BOONE, 1931)" Aquaculture America 2012 February 29 - March 2, Las Vegas, Nevada

Jun-Ho Lee, Jin-heok Lee, Mizanur Rahman, Jeong-Yeol Lee and Sungchul C. Bai\* "EVALUATION OF DIETARY MERCURY THRESHOLD LEVEL OF TOXICITY IN JUVENILE OLIVE FLOUNDER (*Paralichthys olivaceus*)" Aquaculture America 2012 February 29 - March 2, Las Vegas, Nevada

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Jun-ho Lee and Bai, S.C. "Requirement, toxicity and metabolism of selenium in fish" 1st China-South Korea Joint Seminar on Selenium in Biology and Medicine

Mohseni, M., Park, G.H., Lee, J.H., Okorie, O.E., Browdy, C.L., Bharadwaj A.S. and Bai, S.C. "Evaluation of toxicity of dietary chelated copper in juvenile olive flounder, *Paralichthys olivaceus*, based on growth and tissue copper concentration" World Aquaculture 2011 June 6-10, Natal, Brazil

Yong-hyun Yun, Liu Yi, Hyun-ho Yun, Jin-heok Lee, Gun-hyun Park, Jun-ho Lee, Myoung-Jun Jang and Sungchul C. Bai "Effects of dietary fermented mushroom by product *Pleurotus ostreatus* as a fish meal replacer in juvenile Amur catfish *Silurus asotus*" World Aquaculture 2011 June 6-10, Natal, Brazil

Jun-Ho Lee, Jin-hyoek Lee, Gun Hyun Park, Hyeon ho Yun, Okorie E. Okorie, Jun-Young Bae and Sungchul C. Bai "THE EFFECTS OF DIETARY VITAMIN C AND SELENIUM ON THE OXIDATIVE STRESS OF JUVENILE OLIVE FLOUNDER, *Paralichthys olivaceus*, FED CADMIUM" World Aquaculture 2011 June 6-10, Natal, Brazil

Namyong Hwang, Jun-Ho Lee, Jun-Young Bae, Yong-Hyun Yun, Gun Hyun Park, Jin-Hyuk Lee, Yi Liu, Sung-Sam Kim, Kyung-Jun Lee, Kang-Wong Kim, Maeng Hyun Son and Sungchul C. Bai "The effects of feeding rate in juvenile olive flounder, *Paralichthys olivaceus*, fed commercial diet at the different water temperatures" World Aquaculture 2011 June 6-10, Natal, Brazil

Gunhyun Park, Namyong Hwang, Yi Liu, Jun-Ho Lee, Yonghyun Yun, Jun-Young Bae, Hyun-Ho Yun, Jin-Hyeok Lee, Sungchul C. Bai "comparison between commercial and experimental of juvenile sea cucumber *Stichopus japonicus*" Aquaculture America 2011 February 28 - March 3, New Orleans, Louisiana

Gunhyun Park, Jun-Young Bae, Jun-ho Lee, Yong-hyun Yun, Namyong Hwang, Yi Liu, Hyeon-ho Yun, Jin-hyeok Lee, Sungchul C. Bai "effects of two different organic acid products and two different levels essential oil blend products in juvenile olive flounder *paralichthys olivaceus*" Aquaculture America 2011 February 28 - March 3, New Orleans, Louisiana

- Jun-ho Lee, Namyoung Hwang, Yi Liu, Gunhyun Park, Yong-hyun Yun, Jun-Young Bae, Hyun-Ho Yun, Jin-Hyeok Lee, Sungchul c. Bai "Studies on utilization of blood meal as a source of dietary protein in juvenile sea cucumber *Stichopus japonicas*" Aquaculture America 2011 February 28 - March 3, New Orleans, Louisiana
- Yong-hyun Yun\*, Liu Yi, Hyun-ho Yun, Jin-heok Lee, Gunhyun Park, Jun-ho Lee and Sungchul C. Bai "Effects of replacement of fish meal by mushroom powders *pleurotus ostreatus*, *pleurotus eryngii* in catfish *silurus asotus*" Asian-Pacific Aquaculture 2011 17-20 January, Kochi. India
- Sungchul c. Bai, Mahmoud Mohseni and GunHyun Park "Additives/Ingredients for better formulation in Aqua - feeds" Asian-Pacific Aquaculture 2011 17-20 January, Kochi. India

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- Mahmoud Mohseni, Rodirigo O.A., Hammidreza Po, Seunghyung Lee, Sungchul C. Bai "Optimal dieary lipid to carbohydrate ratio in beluga sturgeon(*Huso huso*) fed different L-Carnitine levels" aquaculture europe 2010, October 5-8, Portugal
- Sungchul C. Bai, Jun-Ho Lee "Review of micronutrient research olive flounder *Paralichthys olivaceus*, aquaculture europe 2010, October 5-8, Portugal
- Liu Yi, Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park, Namyoung Hwang, Sungchul C. Bai " Evaluation of dietary cadmium threshold level of toxicity in juvenile olive flounder(*Paralichthys olivaceus*)", 2010, May 31- June 4, Qungdao, China
- Mohseni, M., Park, G.H., Lee, J. H., Lee, S.H., Hwang, N.Y., Okorie, O. E., Liu, Y., Browdy, C., Sishechian, F., and Bai, S. C. "Effects of dietary copper levels on growth, hematological parameters and tissue copper accumulation in juvenile olive flounder(*Paralichthys olivaceus*)", 2010, May 31- June 4, Qungdao, China
- Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Jun-Young Bae, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park, Namyoung Hwang and Sungchul C. Bai " The effects of dietary Vitamin C on the oxidative stress of juvenile olive flounder, *Paralichthys olivaceus*, fed cadmium", 2010, May 31- June 4, Qungdao, China
- Namyoung Hwang, Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Jun-Young Bae, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park, and Sungchul C. Bai "The effects of feeding rate in juvenile olive flounder, *Paralichthys olivaceus*, fed commercial diet at the low temperature season",2010, May 31- June 4, Qungdao, China
- Gun-Hyun Park, Sun-Kyu Kim, Jun-Ho Lee, Jun-Yong Bae, Jeong-Yeol Lee and Sungchul C. Bai "Effects of the dietary antioxidant vitamin C( Ascorbic acid) supplementation for the reproductive performance in broodstock EEL, *Anguilla japonica*", AA2010, Mar 1-5, San Diego, California
- Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Jun-Yiung Bae, Okorie E. Okorie, Mahomoud Mohseni, Gun Hyun Park, Namyoung Hwang and Sungchul C.Bai "Evaluation of dietary cadmium threshold level of toxicity in juvenile olive flounder(*Paralichthus olivaceus*)" AA2010, Mar 1-5, San Diego, California
- Okorie Eme Okorie, Young Chul Kim, Nam Yong Hwang, Jun-ho Lee, Jae-Won Kim, Jeong-Yeol Lee and Sungchul C. Bai " Effects of feeding rate on growth performance and histological characteristics of 10g juvenile olive flounder, *paralichthys olivaceus*, fed extruded pellet at the optimum temperature. AA2010, Mar 1-5, San Diego, California
- Mohseni, M., Park, Gu., LEE, J.H., Lee, S., Okorie,O.E., Bae, J.Y. Kim, Y.C., Hwang, N.Y., Browdy, C., Shishechian, F. and Sungchul C. Bai "Effects of different dietary copper levels on growth and nutritional status of olive flounder, *paralichthys olivaceus*", AA2010, Mar 1-5, San Diego, California

- Jeong-Yeol Lee, Okorie Eme Okorie, Young Chul Kim, NamYong Hwang, Jun-Ho Lee, Jae-Won Kim and Sungchul C. Bai "Effects of feeding rate on growth performance and histological observation in 5g Olive flounder, *Paralichthys olivaceus*, fed extrude pellet at the optimum temperature." AA2010, Mar 1-5, San Diego, California
- Jun-ho Lee, Seunghyung Lee, Yong Chul Kim, Jun-Young Bae, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park, Namyong Hwang and Sungchul C. Bai "The effects of dietary vitamin C on the oxidative stress of juvenile olive flounder, *Paralichthys olivaceus*, fed Cadmium", AA2010, Mar 1-5, San Diego, California
- Sungchul C. Bai and Jun-ho Lee "Review of nutritional research in olive flounder (*Paralichthys olivaceus*)", AA2010, Mar 1-5, San Diego, California

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- Young Chul Kim, Jun-Ho Lee, Jae-Won Kim, Sungchul C. Bai "HISTOLOGICAL RESPONSES OF DIETARY SELENOYEAST IN JUVENILE OLIVE FLOUNDER *Paralichthys olivaceus* asian pacific aquaculture 2009, Nov 3-6 Kuala Lumpur, Malaysia
- Young Chul Kim, Jun-Ho Lee, Jin-Hyung Yoo, Jeong Yeol Lee, Yong Kug Pyeon, Sungchul C. Bai "EVALUATION OF DIETARY POULTRY OIL(PO) AS A FISH OIL(FO) REPLACER IN JUVENILE OLIVE FLOUNDER *Paralichthys olivaceus*" asian pacific aquaculture 2009, Nov 3-6 Kuala Lumpur, Malaysia
- Sungchul C. Bai\*, Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Jun-Young Bae, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park and Namyong Hwang "Gren Growth Aquaculture for the future" asian pacific aquaculture 2009, Nov 3-6 Kuala Lumpur, Malaysia
- Jun-Ho Lee, Seunghyung Lee, Young Chul Kim, Jun-Young Bae, Okorie E. Okorie, Mahmoud Mohseni, Gun Hyun Park, Namyong Hwang, Sungchul C. Bai "EVALUATION OF DIETARY CADMIUM TOXIC LEVEL IN JUVENILE OLIVE FLOUNDER *Paralichthys olivaceus*" WAS2009, Sep 26-29 veracruz, Maxico
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► 2004 (15) ► 2003 (13) ► 2002 (4) ► 2001 (9) ► 2000 (9) ► 1999 (12) ► 1998 (16) ► 1997 (7) ► 1996  
(11) ► 1995 (7) ► 1994 (4) ► 1993 (3) ► 1992 (1)