

CURRICULUM VITAE

Name: Relicardo M. Coloso

Date of Birth: 01 January 1953

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Positions Held:

Scientist (Ret), Nutrition and Feed Development Section

Head, Research Division, 1992-1995; 2011-2013

Program Leader, Marine Fish Program, 2007-2010

Present Position:

Associate Professor V, College of Liberal Arts,
Sciences and Education University of San Agustin, Iloilo City 5000 Philippines

Coordinator, Mendel Institute of Science Research
University of San Agustin

Editor, Scientific Augustinian, official science and technology journal
University of San Agustin

Educational Background:

	Dates	Institution	Discipline	Degree
<i>Elementary</i>	1959-1965	Iloilo Central Elem Sch.		Elementary
<i>Secondary</i>	1965-1970	Phil. Science High Sch.		Secondary
<i>Undergraduate</i>	1970-1974	U. of the Philippines	Chemistry	B. Sc.(cum laude)
<i>Graduate</i>	1976-1980	U. of the Philippines	Biochemistry	M. Sc.
	1986-1990	Cornell University	Nutritional Sciences (Fulbright-Hays scholar)	Ph. D.

Postdoctoral Training:

<i>Postdoctoral Associate</i>	2004-2006	Cornell University Div. of Nutritional Sciences	Nutritional Biochemistry Sulfur amino acid (cysteine, cysteamine, hypotaurine, taurine) metabolism in mammalian systems
<i>Research Fellowship</i>	1998-2001	UMDNJ-NJ Medical School Dept. of Pharmacology and Physiology	Digestive physiology; Phosphorus uptake and metabolism in rainbow trout

Professional License:

- Passed the Licensure Examination for Chemists in 7/3/1975
- PRC License No. 0004251 (valid thru 1/1/2019)

Professional Experience:

2016-present	Assoc. Prof. V	University of San Agustin, Iloilo City
2007-2016	Scientist	Nutrition and Feed Development Section, Aquaculture Department Southeast Asian Fisheries Development Center (SEAFDEC), Philippines
1999-2004	Scientist II	-same-
1992-1999	Scientist I	-same-
1992-1995	Head, Research Div.	-same-
1990-1992	Associate Scientist	-same-
1980-1989	Research Associate	-same-
1975-1979	Chemist	-same-
1975	Research Assistant	Philippine Atomic Energy Commission (now Philippine Nuclear Research Institute) Diliman, Quezon City, Metro Manila

Teaching Experience and Others:

November 2016-present	Associate Professor V, University of San Agustin, Iloilo City
February 2004 – present	Professorial Lecturer (part-time) College of Medicine, Central Philippine University, Iloilo City, Philippines, team-teaching Medical Biochemistry to first year medical students
August – October 2003	Senior Lecturer (part-time), University of the Philippines in the Visayas, Iloilo, Philippines; teaching Biochemistry and Clinical Chemistry courses to undergraduates
June 1980-March 1985	Senior Lecturer (part-time), University of the Philippines in the Visayas, Iloilo, Philippines; taught Analytical Chemistry, Biochemistry, and Organic Chemistry courses to undergraduates
2010-present	Member, Technical Working Group, DA-Bureau of Agriculture and Fisheries Standards (BAFS), developing aquaculture and fisheries national standards for the Philippines
2014-2017	Consultant, Feed Formulation, Alson's Corporation (an aquaculture company based in General Santos City, Mindanao, Philippines)

Awards and Honors:

- 2016 PFCS (Philippine Federation of Chemistry Societies) Awardee for Chemical Research, given at the 31st Philippine Chemistry Congress on April 13-15, 2016, Iloilo City
- 2002 Outstanding Book Award, National Academy of Science and Technology, Philippines “Millamena, O. M., **Coloso, R. M.**, and Pascual, F. P. (eds.) (2002). Nutrition in Tropical Aquaculture: Essentials of Fish Nutrition, Feeds, and Feeding of Tropical Aquatic Species. SEAFDEC Aquaculture Department, Iloilo, Philippines. 244 pp”.
- 2002 DA-BAR (Department of Agriculture-Bureau of Agricultural Research, Philippines), DA Secretary's Award, R&D Paper Published in an Institute for Scientific Information, Current Content Journal “Eusebio, P. S., **Coloso, R. M.** (2002). Proteolytic enzyme activity of juvenile Asian sea bass, *Lates calcarifer*, is increased with protein intake. *Aquacult. Res.* 33: 569-574.”
- DA-BAR 3rd Annual Research Review for the Fisheries Sector Program for Best Paper Presentation Award “Coloso, R.M. Feed development for sea bass (*Lates calcarifer* Bloch) juveniles based on inexpensive and indigenous ingredients”

- USDA Postdoctoral Fellowship, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Department of Pharmacology and Physiology Gawad Lagablab Awardee 1991, Philippine Science High School Alumni Foundation Fulbright-Hays Mutual Educational Exchange Scholarship, Ph. D., Cornell University American Institute for Nutrition.
- Best Research Paper “**Coloso, R. M.**, Stipanuk, M. H. (1989). Metabolism of cyst(e)ine in rat enterocytes. *J. Nutr.* 119: 1914-1924.” International Development Research Centre, Canada (IDRC) Fellow, Institute of Marine Biochemistry, Aberdeen, Scotland
- First Elvira Tan Memorial Award: Best Original Paper in Aquaculture (Philippines) “Baticados, M. C. L., **Coloso, R. M.**, Duremdez, R. C. (1986). Studies on the chronic soft-shell syndrome in the tiger prawn, *Penaeus monodon* Fabricius, from brackishwater ponds. *Aquaculture* 56:271-285.” Philippine Council for Agriculture and Resources Research and Development Scholarship, Univ. of the Philippines National Science Development Board (now the Department of Science and Technology) Scholarship, University of the Philippines
- Science Scholar, Philippine Science High School

Some Recent Fundings:

DOST-PCAARRD (2012-2016)	Studies on feed development and improvement for milkfish and mud crab
United Soybean Board, USA (2009-2013)	Principal Investigator, Soy in Milkfish Diets
Postdoctoral associate - NIH funded	Studies on coenzyme A/ cysteamine dioxygenase pathway in mammalian tissues
USDA postdoctoral fellowship	Phosphorus utilization in rainbow trout
SEAFDEC Aquaculture Dept. & Dept. of Agriculture, Philippines	Feed development for the Asian sea bass
Lonza Ltd. (Basel, Switzerland)	Metaldehyde as molluscicide in milkfish ponds
International Foundation for Science (Stockholm, Sweden)	Amino acid requirements of the Asian sea bass

Memberships in Organizational Organizations:

- **Member**, National Research Council of the Philippines (NRCP)
- **Chairperson**, Visayas Regional Cluster of the NRCP, 2013-present
- **Chairperson**, Visayas Regional Cluster of the NRCP (2003-2004)
- **Adviser**, Visayas Regional Cluster of the NRCP, 2009-2013
- **Member**, Integrated Chemists of the Philippines, Panay Chapter
- **Member**, Asian Fisheries Society, a World Aquaculture Society member organization
- **Member (Life)**, Philippine Society of Biochemistry and Molecular Biology
- **Member**, Philippine Society for Microbiology, Inc
- **Member**, Philippine Fulbright Scholars' Association
- **Member**, Sigma Xi Honor Society
- **Member**, Cornell University Alumni Association
- **Member**, U. P. Alumni Association
- **Member**, Philippine Science High School Alumni Association

International Conferences and Meetings Attended:

- Federation of American Societies for Experimental Biology, Las Vegas, Nevada, USA, 1988
- Federation of American Societies for Experimental Biology, New Orleans, Louisiana, USA, 1989
- Asian Fisheries Forum, sponsored by Asian Fisheries Society, Singapore, 1992
- FAO/AADCP Regional Expert Consultation on Farm-Made Aquafeeds, Bangkok, Thailand, 1993
- International Symposium on Fish Nutrition and Feeding, Hobart, Australia, 1993
- Symposium on 75 Years of Metaldehyde, sponsored by Lonza, Ltd., Visp, Switzerland, 1995
- Asian Fisheries Forum, Beijing, China, 1995
- Symposium on Slug and Snail Pests in Agriculture, Canterbury, United Kingdom, 1996
- International Symposium on Fish Nutrition and Feeding, College Station, Texas, USA, 1996
- World Aquaculture Society, Meeting of the US Chapter of the WAS, New Orleans, Louisiana, USA, 2000
- Federation of American Societies for Experimental Biology, Orlando, Florida, 2001

- World Aquaculture Society Meeting, San Diego, CA, USA, 2010
- Global Soy in Aquaculture Meeting, San Diego, CA, USA, 2010 (Funded by the United Soybean Board)
- Regional Technical Consultation for Sustainable Aquaculture Development of Southeast Asia Towards 2020, 17-19 March 2010, Bangkok, Thailand
- Soy in Aquaculture Stakeholders' Strategic Planning Meeting, Vancouver, Canada, 2010 (Funded by the United Soybean Board)
- Soy in Aquaculture Stakeholders' Strategic Planning Meetings in Hawaii, 2011 and 2012.
- World Aquaculture Society Meeting, Prague, Czech Republic, 2012
- Asia-Pacific Aquaculture, a WAS meeting, Ho Chi Minh City, Viet Nam, 2013.

PUBLICATIONS (*Journals*):

- Apines-Amar, M. J. S., **Coloso, R. M.**, Jaspe, C. J., Salvilla, J. M., Amar-Murillo, M. N. G., Saclauso, C. A. (2015). Partial replacement of soybean meal with fermented copra meal in milkfish (*Chanos chanos*, Forsskal) diet. *AAFL Bioflux*, 8 (6) 1019-1026.
- Apines-Amar, M. J. S., **Coloso, R. M.**, Amar, M. N. G., Golez, M. S. M., Bunda, M. G. B., Jaspe, C. J. (2015) Utilization of Mung Bean, *Vigna radiata* (Linnaeus) as a Novel Protein Source in Practical-Type Diets for Juvenile Milkfish, *Chanos chanos* (Forsskal): Effects on Growth, Feed Efficiency, Body Composition, and Histology of Gut and Liver. *Israeli. J. Aquacult. -Bamidgeh*. 67: 1237-1247.
- Primavera-Tirol, Y. H., **Coloso, R. M.**, Quintio, G. F., Ordonio-Aguilar, R., Laureta, L. V. Jr.. Ultrastructure of the anterior intestinal epithelia of the orange-spotted grouper *Epinephelus coioides* larvae under different feeding regimes. *Fish Physiology and Biochemistry*. 40(2), 607-24 (2014)
- Jaspe, C. J., Golez, M. S., **Coloso, R. M.**, Amar, M. J., Caipang, C. M. Production of hatchery-bred early juvenile milkfish (*Chanos chanos*) in nursery ponds through supplemental feeding. *ABAH Bioflux* 4 (2), 32-37 (2012).
- Laranja, J. Jr., Quintio, E. T., Catacutan, M. R., **Coloso, R. M.** (2010) Effects of dietary Ltryptophan on the agonistic behavior, growth and survival of juvenile mud crab *Scylla serrata*. *Aquaculture* 310: 84-90.
- Eusebio, P. S., **Coloso, R. M.**, Gapasin, R. S. J. (2010). Nutritional evaluation of mysids *Mesopodopsis orientalis* (Crustacea:Mysida) as live food for grouper *Epinephelus fuscoguttatus* larvae, *Aquaculture* 306: 289-294.
- Kuhlmann, K-J., Focken, U., **Coloso, R. M.**, Becker, K. (2008). Diurnal feeding pattern and gut content of milkfish *Chanos chanos* (Forsskal, 1775) cultured semi-intensively during the wet and dry season in brackish ponds in the Philippines. *Aquaculture Research* 40: 2-12.
- Dominy, J. E. Jr., Simmons, C. R., Hirschberger, L. L., Hwang, J, **Coloso, R. M.**, Stipanuk, M. H. (2007). Discovery and characterization of a second mammalian thiol dioxygenase, cysteamine dioxygenase. *J. Biol. Chem.* 282, 25189-25198.

- Coloso, R. M.**, Hirschberger, L. L., Dominy, J. E., Jr., Lee, J-I, Stipanuk, M. H. (2006). Cysteamine dioxygenase: evidence for the physiological conversion of cysteamine to hypotaurine in rat and mouse tissues. *Adv. Exp. Med. Biol.* 583, 25-36.
- Stipanuk, M. H., Dominy, J. E., Jr., Lee, J-I, **Coloso, R. M.** (2006). Mammalian cysteine metabolism: new insights into regulation of cysteine metabolism. *J. Nutr.* 136: 1652S-1659S.
- Dominy, J. E., Jr., Hirschberger, L. L., **Coloso, R. M.**, Stipanuk, M. H. (2006) Regulation of cysteine dioxygenase degradation is mediated by intracellular cysteine levels and the ubiquitin-26S proteasome system in the living rat. *Biochem. J.* 394, 267-273.
- Dominy, J. E., Jr., Hirschberger, L. L., **Coloso, R. M.**, Stipanuk, M. H. (2006). In vivo regulation of cysteine dioxygenase via the ubiquitin-26S proteasome system. *Adv. Exp. Med. Biol.* 583, 37-47.
- McDaniel, N. K., Sugiura, S. H., Kehler, T., Fletcher J. W., **Coloso, R. M.**, Weis, P., Ferraris, R. P. 2005. Dissolved oxygen and dietary phosphorus modulate utilization and effluent partitioning of phosphorus in rainbow trout (*Oncorhynchus mykiss*) aquaculture. *Environ. Pollut.* 138: 350-357.
- Coloso, R. M.**, Murillo-Gurrea, D. P., Borlongan, I. G., Catacutan, M. R. (2004). Tryptophan requirement of juvenile Asian sea bass *Lates calcarifer*. *J. Appl. Ichthyol.* 20:43-47.
- Eusebio, P. S., **Coloso, R. M.**, Mamauag, R. E. P. (2004). Apparent digestibility of selected ingredients in diets for juvenile grouper, *Epinephelus coioides* (Hamilton). *Aquacult. Res.* 35: 1261-1269.
- Coloso, R. M.**, King, K., Fletcher, J. W., Weis, P., Werner, A., Ferraris, R. P. (2003). Dietary P regulates phosphate transporter expression, phosphatase activity, and effluent P partitioning in trout culture. *J. Comp. Physiol. B* 173: 519-530.
- Coloso, R. M.**, King, K., Fletcher, J. W., Hendrix, M. A., Subramanyam, M., Weis, P., Ferraris, R. P. (2003). Phosphorus utilization in rainbow trout (*Oncorhynchus mykiss*) fed practical diets and its consequences on effluent phosphorus levels. *Aquaculture.* 220: 801-820.
- Eusebio, P. S. and **Coloso, R. M.** (2002). Proteolytic enzyme activity of juvenile Asian sea bass, *Lates calcarifer* (Bloch), is increased with protein intake. *Aquacult. Res.* 33:569-574.
- Coloso R. M., Basantes S. P., King, K., Hendrix, M. A., Fletcher, J. W., Weis, P., Ferraris, R. P. (2001). Effect of dietary phosphorus and vitamin D3 on phosphorus levels in effluent from the experimental culture of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture* 202: 145-161.
- Murillo-Gurrea D. P., Coloso R.M., Borlongan I. G., Serrano A. E. Jr. (2001). Lysine and arginine requirements of juvenile Asian sea bass *Lates calcarifer*. *J. Appl. Ichthyol.* 17: 49-56.
- Eusebio, P. S. and **Coloso, R. M.** (2000). Nutritional evaluation of various plant protein sources in diets for Asian sea bass *Lates calcarifer*. *J. Appl. Ichthyol.* 16: 41-48.
- Coloso R. M.**, Murillo-Gurrea D. P., Borlongan I. G., Catacutan M. R. (1999). Sulphur amino acid requirement of juvenile Asian sea bass *Lates calcarifer*. *J. Appl. Ichthyol.* 15: 54-58.
- Coloso R. M.**, Borlongan I. G. (1999). Significant organotin contamination of sediment and tissues of milkfish in brackish water ponds. *Bull. Environ. Contam. Toxicol.* 63: 297-304.
- Coloso R. M.**, Borlongan I. G., Blum R. A. (1998). Use of metaldehyde as a molluscicide in semi-commercial and commercial milkfish ponds. *Crop Protection.* 17: 669-674.
- Eusebio P. S., **Coloso R. M.** (1998). Evaluation of leguminous seed meals and leaf meals as plant protein sources in diets for juvenile *Penaeus indicus*. *The Israeli J. Aquacult. - Bamidgeh.* 50: 47-54.

- Borlongan I. G., **Coloso R. M.** (1994). Leaf meals as protein sources in diets for milkfish, *Chanos chanos* (Forsskal). In *Fish Nutrition Research in Asia* (S. S. De Silva, ed). Proceedings of the Fifth Asian Fish Nutrition Workshop. Asian Fisheries Society Spec. Publ. 9, Manila, Philippines, Asian Fisheries Society, pp 63-68.
- Borlongan, I. G., **Coloso, R. M.** (1993). Requirements of juvenile milkfish (*Chanos chanos* Forsskal) for essential amino acids. *J. Nutr.* 123: 125-132.
- Coloso, R. M.**, Tiro, L. B., Benitez, L. V. (1992). Requirement for tryptophan by milkfish (*Chanos chanos* Forsskal) juveniles. *Fish Physiol. Biochem.* 10: 35-41.
- Coloso, R. M.**, Hirschberger, L. L., Stipanuk, M. H. (1991). Uptake and metabolism of L-2oxo-[35S]thiazolidine-4-carboxylate by rat cells is slower than that of L-[35S]cysteine or L-[35S]methionine. *J. Nutr.* 121: 1341-1348.
- Coloso, R. M.**, Drake, M. R., Stipanuk, M. H. (1990). Effect of bathocuproine disulfonate, a copper chelator, on cyst(e)ine metabolism by freshly isolated rat hepatocytes. *Am. J. Physiol.* 259: E443-E450.
- Coloso, R. M.**, Stipanuk, M. H. (1989). Metabolism of cyst(e)ine in rat enterocytes. *J. Nutr.* 119: 1914-1924.
- Coloso, R. M.**, Benitez, L. V., Tiro, L. B. (1988). The effect of dietary protein-energy levels on growth and metabolism of milkfish (*Chanos chanos* Forsskal). *Comp. Biochem. Physiol.* 89A: 11-17.
- Walton, M. J., Cowey, C. B., **Coloso, R. M.**, Adron, J. W. (1986). Dietary requirements of rainbow trout for tryptophan, lysine and arginine determined by growth and biochemical measurements. *Fish Physiol. Biochem.* 2: 161-169.
- Baticados, M. C. L., **Coloso, R. M.**, Duremdez, R. C. (1986). Studies on the chronic softshell syndrome in the tiger prawn, *Penaeus monodon* Fabricius, from brackishwater ponds. *Aquaculture* 56:271-285.
- Walton, M. J., **Coloso, R. M.**, Cowey, C. B., Adron, J. W., Knox, D. (1984). The effects of dietary tryptophan levels on growth and metabolism of rainbow trout (*Salmo gairdneri*). *British J. Nutr.* 51: 279-287.

PUBLICATIONS (*Book, Proceedings, Extension Manual, and Review Articles*):

- Catacutan, M. R., **Coloso, R. M.**, Acosta, B. A., eds. (2015) Development and Use of Alternative Ingredients or Fish Meal Substitutes in Aquaculture Feed Formulation, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, 142 pp.
- Coloso, R. M.** (2015) Use of Plant Proteins in Aquaculture Feed for Top Five Commodities in ASEAN Member States. In (M. R. Catacutan, R. M. Coloso, and B. A. Acosta, eds.) Development and Use of Alternative Ingredients or Fish Meal Substitutes in Aquaculture Feed Formulation, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp 79-88.
- Coloso, R. M.**, Catacutan, M. R., Arnaiz, M. T. (2015) Important Findings and Recommendations on Chemical Use in Aquaculture In Southeast Asia, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, 37 pp.
- Coloso, R. M.** (2015) Organotin compounds. In (R. M. Coloso, M. R. Catacutan and M. T. Arnaiz) Important Findings and Recommendations on Chemical Use in Aquaculture In Southeast Asia, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp 18-19.
- Coloso, R. M.** (2015) Melamine. In (R. M. Coloso, M. R. Catacutan and M. T. Arnaiz) Important Findings and Recommendations on Chemical Use in Aquaculture In Southeast Asia, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp 20-21.

- Catacutan, M. R., **Coloso, R. M.**, Arnaiz, M. T. (2015) Survey of antibiotics and pesticide residues in aquaculture products in the Philippines. In (R. M. Coloso, M. R. Catacutan and M. T. Arnaiz) Important Findings and Recommendations on Chemical Use in Aquaculture In Southeast Asia, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp 5-10.
- Arnaiz, M. T., **Coloso, R. M.**, Catacutan, M. R. (2015). Withdrawal periods of antibiotics, oxytetracycline and oxolinic acid, in fish species cultured in the tropics. In (R. M. Coloso, M. R. Catacutan and M. T. Arnaiz) Important Findings and Recommendations on Chemical Use in Aquaculture In Southeast Asia, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp. 11-15.
- Coloso, R. M.** (2015) Feed formulation for sustainable aquaculture. In (M. R. R. RomanaEguia, F. D. Parado-Estepa, N. D. Salayo, M. J. H. Leбата-Ramos, eds) Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia: Challenges in Responsible Production of Aquatic Species. Proceedings of the International Workshop on Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia 2014 (RESA), Iloilo City, Philippines, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp. 223-230.
- Aya, F. A., Cuvin-Aralar, M. L., **Coloso, R. M.** (2015) Potential of cowpea (*Vigna unguiculata* L.) meal as an alternative protein source in diets for giant freshwater prawn (*Macrobrachium rosenbergii*, de Man 1879) In (M. R. R. Romana-Eguia, F. D. Parado-Estepa, N. D. Salayo, M. J. H. Leбата-Ramos, eds) Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia: Challenges in Responsible Production of Aquatic Species. Proceedings of the International Workshop on Resource Enhancement and Sustainable Aquaculture Practices in Southeast Asia 2014 (RESA), Iloilo City, Philippines, Southeast Asian Fisheries Development Center, Aquaculture Department, Tigbauan, Iloilo, Philippines, pp. 231-237.
- Jamerlan, G. S., **Coloso, R. M.**, Golez, N. V. (2014) Intensive culture of milkfish *Chanos chanos* in polyculture with white shrimp *Penaeus indicus* or mud crab *Scylla serrata* in brackishwater earthen ponds, SEAFDEC Aquaculture Department, Aquaculture Extension Manual No. 57. 30 pp.
- Acosta, B. O., **Coloso, R. M.**, Ayson, E. G. T. D. J., Toledo, J. D. (eds)(2011) Sustainable Aquaculture Development for Food Security in Southeast Asia Towards 2020: Proceedings of the Regional Technical Consultation on Sustainable Aquaculture Development in Southeast Asia Towards 2020, 17-19 March 2010, Bangkok, Thailand, SEAFDEC Aquaculture Department, 169 pp.
- Jamerlan, G. S., **Coloso, R. M.** (2010) Intensive culture of sea bass, *Lates calcarifer* Bloch, in brackishwater earthen ponds, SEAFDEC Aquaculture Department, Aquaculture Extension Manual No. 46. 34 pp.
- Coniza, E. B., Marte, C. L., **Coloso, R. M.**, Huervana, F. L. (2010) Fingerling production of hatchery-reared milkfish (*Chanos chanos*) in earthen nursery ponds, SEAFDEC Aquaculture Department, Aquaculture Extension Manual No. 45., 30 pp.
- Stipanuk, M. H., Dominy, J. E., Jr., Lee, J. I., **Coloso, R. M.** (2006). Mammalian cysteine metabolism: new insights into regulation of cysteine metabolism. Proceedings of the Workshop on Assessment of Adequate Intake of Dietary Amino Acids. *J. Nutr.* 136: 1652S-1659S.
- Ferraris, R. P., **Coloso, R.**, Sugiura, S., Flimlin, G. (2006). Phosphorus in effluents from rainbow trout (*Oncorhynchus mykiss*) aquaculture. *World Aquaculture Magazine.* 37: 16-20.
- Coloso, R. M.** (2003) Endosulfan: A Hidden Menace. SEAFDEC Asian Aquaculture, April-June 2003.
- Millamena, O. M., **Coloso, R. M.**, and Pascual, F. P. (eds.) (2002). Nutrition in Tropical Aquaculture: Essentials of Fish Nutrition, Feeds, and Feeding of Tropical Aquatic Species. SEAFDEC Aquaculture Department, Iloilo, Philippines. 244 pp.