

รายการอ้างอิง

ภาษาไทย

- แก้ว กังสดาลอำไพ. พืชวิทยา: หลักการเบื้องต้นประยุกต์อาหารและโภชนาการ. นครปฐม: สำนักพิมพ์สถาบันวิจัยโภชนาการมหาวิทยาลัยมหิดล, 2537.
- จงจิตร กฤษณะประกรกิจ. สารก่อมะเร็งในอาหารและไนโตรซามีน. วารสารเภสัชศาสตร์ ปีที่ 15 เล่มที่ 1, 2537.
- ฐิติลาวัฒน์ กลิ่นคล้ายกัน. ระดับไซโตโครมพี 450 และไซโตโครมบี 5 ในปลาตุ๊กพันธุ์ผสม (*Clarias macrocephalus* VS *Clarias gariepinus*) ภายหลังสัมผัสเมทิลพาราไรออนและไตรบิวทิลดีน. วิทยานิพนธ์ปริญญาโทมหาบัณฑิต ภาควิชาบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย, 2539.
- ประภัสสร ตันติพงษ์วิวัฒน์. ผลของเมทิลพาราไรออนและไตรบิวทิลดีนต่อระดับไซโตโครมพี 450 ในปลาตุ๊กพันธุ์ผสม (*Clarias macrocephalus* VS *Clarias gariepinus*). วิทยานิพนธ์ปริญญาโทมหาบัณฑิต ภาควิชาบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย, 2538.
- ฝ่ายจัดการสารพิษ. เอกสารเผยแพร่วิชาการเมทิลพาราไรออน. เล่มที่ 19 กรุงเทพมหานคร: กองมาตรฐานคุณภาพสิ่งแวดล้อมสำนักงานคณะกรรมการสิ่งแวดล้อมแห่งชาติ, 2528: 8-9.
- ไพฑูรย์ พิศุทธิ์สินธุ์, บุญส่ง หุตังคบดี และ นิยม รัตนพงษ์. การนำเข้าสารกำจัดศัตรูพืช พ.ศ. 2537. กรุงเทพมหานคร: ฝ่ายวัตถุมีพิษ กองควบคุมพืชและวัตถุการเกษตร กรมวิชาการเกษตร, 2538: 78.
- พรเพ็ญ เปรมโยธิน. เมตาบอลิซึมและพิษจากเมตาบอลิซึม. พิมพ์ครั้งที่ 1 กรุงเทพมหานคร: โรงพิมพ์จุฬาลงกรณ์มหาวิทยาลัย, 2539.
- ภัทรา หาญจริยากุล. การศึกษาพิษเฉียบพลันในขนาดที่ไม่ทำให้ปลาตายของเมทิลพาราไรออนต่อปลากระพงขาว (*Lates calcarifer*). วิทยานิพนธ์ปริญญาโทมหาบัณฑิต ภาควิชาบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย, 2537.
- รัชณี เก่าเจริญ และ สมดุลย์ บุญซื่อน. ไนเตรท ไนไตรท์ และสารประกอบไนโตรโซ. กรุงเทพมหานคร: งานสารพิษ กองมาตรฐานคุณภาพสิ่งแวดล้อม สำนักงานคณะกรรมการสิ่งแวดล้อมแห่งชาติ, 2537: 1-36.
- ศรีสมบัติ นวนพรัตน์สกุล. เอ็นไซม์ไซโตโครมพี 450. ไทยเภสัชสาร 21 (1997): 21-31.

สุกัลยา เจริญศรี. ผลของโซเดียมไนไตรท์และหรือเมทิลพาราไรออนในขนาดที่ไม่ทำให้ปลาตาย
ในปลาดุกพันธุ์ผสม (*Clarias macrocephalus* VS *Clarias gariepinus*).
วิทยานิพนธ์ปริญญาโทมหาบัณฑิต ภาควิชาบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย,
2540.

ภาษาอังกฤษ

- Alcaraz, g., Carrara, X.C., and Vanegas, C. Temperature tolerance of *Peneus setiferus* postlarvae exposed to ammonia and nitrite. Aquatic Toxicology 39 (1997) : 345-353.
- Andresson, T., and Forlin, L. Regulation of the cytochrome P450 enzyme system in fish. Aquatic Toxicology 24 (1992) : 1-20.
- Andresson, T., and Koivusaari, U. Oxidative and conjugation metabolism of xenobiotics in isolated liver cells from thermally acclimated rainbow trout. Aquatic Toxicology 8 (1968) : 85-92.
- Ariello, A.E., Gaino, E., Margiocco, C., Mensi, P., and Schenone, G. Biochemical and ultrastructural effects of nitrite in rainbow trout : Liver hypoxia as the root of the acute toxicity mechanism. Environmental Research 34 (1984) : 135-154.
- Bartoseak, T., Dolfini, E., Ghera, P. Guitani, A., Villa, P., and Villa, S. Preservation of rat hepatic microsomal enzyme activities effect of low temperature and freeze - drying. Journal of Pharmacological Methods 3 (1980) : 191-200.
- Bath, R.N., and Eddy, F.B. Transport of nitrite across fish gills. Journal of Experimental Zoology 214 (1980) : 119-121.
- Benke, G.M., Cheever, K. L. Mirer, F.E., and Murphy, S.D. Comparative toxicity, anticholinesterase action and parathion in Sunfish and mice. Toxicology and Applied Pharmacology 28 (1974) : 97-109.
- Benveniste, I., Lesot, A., Hasenfratz, M.P., Koche, G., and Durst, F. NADPH - cytochrome P450 reductase in higher plants. Biochemical and Biophysical Research Communications 177 (1991) : 105-112.

- Bianchini, A., Wasielesky, W., Jr., and Miranda Filho, K.C. Toxicity of nitrogenous compound to juveniles of flatfish *Paralichthys orbignyanus*. Bullentin of Environmental Contamination and Toxicology 56 (1996) : 452-459.
- Birt, D.F., Hruza, D.S., and Banker, P.Y. Effects of dietary protein level on hepatic microsomal mixed - function oxidase systems during aging in two generations of syrian hamsters. Toxicology and Applied Pharmacology 68 (1983) : 77-86.
- Bradford, M.M., A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein - dye binding. Analytical Biochemistry 72 (1976) : 248-254.
- Brower, P.R., Falls, W.W., Vanzardt, J., Collier, N., and Phillips, J.D. methemoglobinemia in channel catfish : methods of prevention. Progressive Fish Culturist 45 (1983) : 154-158.
- Bulge, J.A., and Aust, S. D. Comparative studies of liver and lung NADPH - cytochrome C reductase. Biochimica et Biophysica Acta 385 (1975) : 371-379.
- Casalderrey, A.F., Ferrando, M.D., and Moline, E.A. Chronic toxicity of methyl parathion to *Daphnia magna* : effects on survival, reproduction, and growth. Bullentin of Environmental Contamination and Toxicology 54 (1995) : 43-49.
- Ceron, J.J., Panizo, C.C., and Montes, A. Toxicological effects in rabbits induced by endosulfan, lindane and methyl parathion representing agricultural by products contamination. Bullentin of Environmental Contamination and Toxicology 54 (1995) : 258-265.
- Chen, J.C., and Cheng, S.Y. Changes of oxyhemocyanin and protein levels in the hemolymph of *Penacus japonicus* exposed to ambient nitrite. Aquatic Toxicology 33 (1995) : 215-226.
- Chen, J.C., and Lee, Y. Effect of nitrite on mortality, ion regulation and acid-base balance of *Macrobrachium rosenbergii* at different external chloride concentrations. Aquatic Toxicology 39 (1997) : 219-305.

- Crankshaw, D.L., Erikson, P.R., and Holtzman, J.L. Effect of phenobarbital induction, charcoal treatment and storage on the spectral binding characteristics and NADPH-cytochrome P450 reductase activity of hepatic microsomes. Biochemical Pharmacology 29 (1990) : 393-396.
- Crawford, R.E., and Allen, G.H. Seawater inhibition of nitrite toxicity to *Chinook salmon*. Transaction of the American Fisheries Society 106 (1997) : 105-109.
- Curran, R.D., Billiar, T.R., Stuehr, D.J., Holfmann, K., and Simmons, R.L. Hepatocytes produce nitrogen oxides from L-arginine in response to inflammatory products of kupffer cells. Journal of Experimental Medicine 170 (1989) : 1769-1774.
- Debethizy, J.D., and Hayes, J.R. Metabolism and determinant of toxicity. In Hayes, A.W. (ed) Principles and Methods of toxicology, 3rd pp. 59-70. New York : Raven, 1994.
- Degawa, M., Kojima, M., Hishinuma, T., and Hashimoto, Y. Sex-dependent induction of hepatic enzymes for mutagenic activation of a tryptophan pyrrolisate component, 3- amino- 1,4- dimethyl- 5H- pyrido[4,3-b]-indole, by feeding in mice. Cancer research 45 (1985) : 69-102.
- Dobois, K.P., and Kinoshita, F.K. Influence of hepatic microsomal enzymes by phenobarbital on toxicity of organic phosphate insecticide. Proceedings of the Society for Experimental Biology and Medicine 129 (1968) : 699-702.
- Dubois, M., Wazies, L.De., Thome, J.P., and Kremers, P. P-450 induction by Aroclor 1254 and 3,3,4,4,-tetrachloro-biphenyl in cultured hepatocytes from rats, quail and man : Interspecies comparison. Comparative Biochemistry and Physiology 113c(1996) : 51-59.
- Duthu, G.S., and Shertzer, H.G. Effect of nitrite on rabbit liver mixed - function oxidase activity. Metabolism and Disposition 7 (1979) : 263-269.

- Eddy, F.B., Kunzlik, P.A., and Bath, R.N. Uptake and loss of nitrite from the blood of rainbow trout, *Salmo gairdneri* Richardson, and Atlantic salmon, *Salmo salar* L., in fresh water and in dilute sea water. Journal of Fish Biology 23 (1983) : 105-116.
- Fan, L.L., and Masters, S.S. Properties of purified kidney microsomal NADPH - cytochrome C reductase. Archive of biochemistry and Biophysics 165 (1974) : 665-671.
- Forlin, L. Effects of clophen A50, 3 - methyl - cholanthrene, pregnen - 16 α - nitrite, and phenobarbital on the hepatic microsomal cytochrome P450 - dependent monooxygenase system in rainbow trout, *Salmo gairdneri*, of different age and sex. Toxicology Applied pharmacology 54 (1980) : 420-430.
- Forlin, L., and Andersson, T. Storage conditions of rainbow trout liver cytochrome P450 and conjugating enzymes. Comparative of Biochemistry and Physiology 803 (1985) : 569-572.
- Forlin, L., and Haux, C., Sex differences in hepatic cytochrome P450 monooxygenase activity in rainbow trout during and annual reproductive cycle. Journal of Endocrinology 124 (1990) : 207-213.
- Iyanagi, T. Some properties of kidney cortex and splenic microsomal NADPH - cytochrome C reductase. FEB. LETTERS 46 (1974) : 51-54.
- Gatamu, H.E., Necrosis of trout retina (*Oncorhynchus mykiss*) after sublethal exposure nitrite. Archives of Environmental Contamination and Toxicology 26 (1994) : 119-123.
- Gergel, D., Misik, V., Riesz, P., and Cederbaum, A.I. Inhibition of rat and human cytochrome P450 2E, catalytic activity and reactive oxygen radical formation by nitric oxide. Archives of Biochemistry And Biophysics 337 (1997) : 239-259.
- Goksoyr, A., and Forlin, L. The cytochrome P450 system in fish, aquatic toxicology and environmental monitoring. Aquatic Toxicology 22 (1992) : 287-321.
- Guengerich, F.p. Cytochrome P450. Chemistry and Physiology 89c (1988) : 1-4.

- Guengerich, F.P. Analysis and characterization of enzymes. In Hayes, A.W. (ed) Principles and Method of Toxicology, 3rd pp. 1259-1313. New York : Raven Press, 1994.
- Guzov, V.M., Houstones, H.L., Murataliev, M.B., Walkers, F.A., and Feyereisen, R. Molecular cloning, over experssion in *Escherichia coli*, structural and function characterization of house fly cytochrome b5. The Journal of Biological Chemistry 43 (1996) : 26637-23345.
- Halpert, J., Homond, D., and Neal, R.A. Inactivation of purified rat liver cytochrome P450 during the metabolism of parathion (diethyl p - nitrophenyl phosphorothionate). The Journal of Biological Chemistry 225 (1980) : 1080-1089.
- Hansson, T., aand Gustasson, A. Sex - differences in the hepatic in *vitro* metabolism of 4 - androstene - 3,17 - dione in rainbow trout, *Salmo gairdneri*. General Comparative of Endocrinology 44 (1981) : 181-188.
- Heath, A.G., Cech, J.J., Zinkl, J.G., Finlayson, B., and Fujimura, R. Sublethal effect of methyl parathion, carbofuran, and molinate on lavai *Striped bass*. American Fisheries Society Symposium 14 (1993) : 17-28.
- Hiratsuka, M., Mutsura, T., Watanabe, E., Sato, M., and Suzuki, Y. Sex differences in constitutive level of renal lauric acid hydroxylase activity and CYP 4A - relates protein in mice. Biological Pharmacology Bullentin 19 (1996) : 512-517.
- Huey, d.w., Beitinger, T.L., and Wooten, M.C. Nitrite - induced methemoglobin formation and recovery in channel catfish (*Ictalurus punctatus*) at three acclimation temperatures. Bullentin of Environmental Contamination and Toxicology 32 (1984) : 674-681.
- Hunn, J.B., and Allen, J.L. Movement of drug across the gill of fishes. Annual Review of Pharmacology 14 (1974) : 47-55.

- Inui, A., Nishi, Y., Taketomi, M., and Mori, M. Transplacental action of sodium nitrite on embryonic cells of syrian golden hamster. Mutation Research 66 (1979) : 149-158.
- Ioannides, C., and Parke, D.V. The cytochrome P450 gene family of microsomal hemoproteins and their role in the metabolic activations. Drug Metabolism Reviews 22 (1990) : 1-85.
- Iyanagi, T. Some properties of kidney cortex and splenic microsomal NADPH - cytochrome C reductase. FEBS LETTERS 46 (1974) : 51-54.
- Jensen, F.B. Uptake, elimination and effects of nitrite and nitrate in fresh water crayfish (*Astacus astacus*) Aquatic Toxicology 34 (1996) : 95-104.
- Jonnalagedda, P.R., and Rao, M.B.P. Histopathological changes induced by specific pesticides on some tissues of the fresh water snail, *Bellamyia dissimilis Muller*. Bullentin of Environmental Contamination and Toxicology 57 (1996) : 648-654.
- Juchau, M.R. Substrate specificities and functions of the P450 cytochromes. Life Sciences 47 (1990) : 2385-2394.
- Kamataki, I., Leelin, M.C.M., Belcher, D.H., and Neal, R.A. Studies of the metabolism of parathion with an apparently homogenous preparation of rabbit liver microsomal cytochrome P450. Drug Metabolism and Disposition 4 (1976) : 1980-1989.
- Kameinski, F., and Murphy, S.D. Biphasic effects of methylene - dioxyphenyl synergists on the action of hexobarbital and organophosphate insecticides in mice. Toxicology and Applied Pharmacology 18 (1971) : 883-894.
- Kaneene, J.B. The effects of nitrate, nitrite, and nitroso compound on animal health Veterinary and Human Toxicology 35 (June 1993) : 11147-11151.
- Kim, Y.m., Bergomia, H.A., Muller, C., Pitt, B.R., Watkins, W.D., and Lancaster, J.R. Loss and degradation of enzymes bound heme induced by cellular nitric oxide synthesis. The Journal of Biological Chemistry 270 (1995) : 5710-5713.

- Koivusari, U., Harri, M., and Hanninen, O. Seasonal variation of hepatic biotransformation in female and male rainbow trout (*Salmo gairdneri*). Comparative Biochemistry and Physiology 70c (1981) : 149-157.
- Kokkinakis, D.M. et al. Metabolism of N - nitroso - 2,6 - dimethylmorphine by isozymes of rabbit liver microsomal cytochrome P450. Cancer Research 45 (1985) : 619-628.
- Konikoff, M. Toxicity of nitrite to channel catfish. Progressive Fish Culturist 37 (1975) : 96-98.
- Krous, S.R., Blazer, V.S., and Mead, T.L. Effects of acclimation time on nitrite movement across the gill epithelia of rainbow trout: the role of "chloride cells". Progressive Fish Culturist 44 (1983) : 126-130.
- Kudriavtsev, M.E., Dmitrieva, O.N., and Kuropteva, Z.V. An study of the joint action of sodium nitrite and whole-body irradiation on animal tissue. Izvestiia Akademii Nauk Biologicheskaja 4 (1996) : 453-459.
- Levin, W., Alvares, a., Jacobson, M., and Kuntzman, R. Effects of storage of frozen liver microsomal preparations on the hydroxylation morphine. Biochemical pharmacology 18 (1969) : 883-889.
- Lewis, W.M., JR., and Morris, D.P. Toxicity of nitrite to fish: A review Transaction of the American Fisheries Society 115 (1986) : 183-195.
- Liao, P.B., and Mayo, R.D. Intensified fish culture combining water reconditioning with pollution abatement. Aquaculture 3 (1974) : 61-85.
- Litterest, C.L., Minnaugh, E.G., Regan, R.L., and Gram, T.E. Effect of storage on microsomal mixed function oxidase activity in mouse liver. Biochemical Pharmacology 23 (1974) : 2391-2394.
- Lu, A.Y.H., West, S.b., Vose, M., Ryan, D., and Levin, W. Role of cytochrome b5 in hydroxylation by a reconstituted cytochrome P450-containing system. The Journal of Biological Chemistry 249 (1974) : 6701-6709.

- Margiocco, C., Aril, A., Mensi, P., and Schenone, G. Nitrite bioaccumulation in *Salmo gairdneri* Rich. A And hematological consequences. Aquatic Toxicology 3 (1983) : 261-270.
- Mead, T.L., and Perrone, S.J. Effect of chloride ion concentration and pH on the transport of nitrite across the gill epithelia of Coho salmon. Progressive Fish Culturist 42 (1980) : 71-72.
- Mensi, P., Arillo, A., Margiocco, C., and Schenone, L. Lysosomal damage under nitrite intoxication in rainbow trout (*Salmo gairdneri* Rich.). Comparative Biochemistry and Physiology 73 (1982) : 161-165.
- Misra, A., Mukerjee, R., and Chaturvedi, U.C. Production of nitrite by dengue virus - induced cytotoxic factor. Clinical and Experimental Immunology 1104 (1996) : 406-411.
- Miura, Y., and Naai, T. Molecular properties and physiological function of cytochrome P450. Kitasato Archives of Experimental Medicine 61 (1988) : 111-125.
- Monshower, M. Witkamp, R.F., Nijneijer, S.M. Amsterdam, J.G.V., and Miert, A.S.J.P.A.M.K. Suppression of cytochrome P450 and UDP glucuronosyl transferase dependent enzyme activity by proinflammation in primary cultures of pig hepatocytes. Toxicology and Applied Pharmacology 137 (1990) : 237-244.
- Murray, m., and Reidy, G.F. Selectivity in the inhibition of mamalian cytochrome P450 by chemical agents. Pharmacological Reviews 42 (1990) : 85-98.
- Nakatsugana, T., Bradford, L., and Usuik, Hepatic disposition of parathion uptake by isolated hepatocytes and chromatographic translobular migration. Prestic. Biochemical and Physiological 14 (1980) : 13-25.
- Neskovic, N., Victorovic, S., and Plesnicar, M. The role of liver microsomal enzymes in the metabolism of parathion. Biochemical Pharmacology 22 (1973) : 2943-2946.

- Norman, B.J., Poore, R.E., and Neal, R.A. Studies of the binding of sulfur released in the mixed-function oxidase catalyzed metabolism of diethyl p-nitrophenyl phosphorothionate (parathion) to diethyl p - nitrophenyl phosphate (paraoxon). Biochemical Pharmacology 23 (1974) : 1733-1744.
- Oshima, H. et al. Increased nitrosamine and nitrate biosynthesis mediated by nitric oxide synthase induced in hamsters infected with liver fluke (*Opisthorchis viverrini*). Carcinogenesis 15 (1994) : 271-275.
- Omata, Y., Robinson, R.C., Gelboin, H.V., Pincus, M.R., and Friedman, F.K. Specificity of the cytochrome P450 interaction with cytochrome b5. FEBS LETTERS 3446 (1994) : 241-245.
- Palachek, R.M., and Tomasso, J.R. Nitrite toxicity to fathead minnows : effect of fish weight. Bulletin of Environmental Contamination and Toxicology 32 (1984b) : 238-242.
- Paulson, N. Nitrite influence on sulfonamied metabolism. Drug Metabolism Reviews 118 (1987) : 139-145.
- Payne, J.F., Fancey, L.L., Rahimtula, A.D., and Porter, E.L. Review and perspective on the use of mixed - function oxygenase enzymes in biological monitoring. Biochemical and Physiological 86 (1987) : 233-245.
- Pearce, R.E. et al. Effects of freezing, thawing, and storing human liver microsomes on cytochrome P450 activity. Archive of Biochemistry And Biophysics 331 (1996) : 145-169.
- Phillip, A.H., and Langdon, R.G. Hepatic triphosphopyridine nucleotide - cytochrome C reductase : isolation, charaterization, and kinetic studies. The Journal of Biological chemistry 237 (1962) : 2652-2660.
- Pickering, Q.H., Henderson, C., and Lemke, A.E. The toxicity of organic phosphorus insecticides to different species of warm fishes. Transaction American Fisheries Society 91 (1962) : 1775-1784.

- Pitrolo, D. A., Rumbaugh, R.C., and Colby, H.D. Maturational changes in adrenal xenobiotic metabolism in male and female guinea pigs. Drug Metabolism And Disposition 7 (1979) : 52-56.
- Ponnamperuma, K., and Croteau, R. Purification and characterization of an NADPH - cytochrome P450 (cytochrome C) reductase from Spearmint (*Memthaspica spicata*) Glandular trichomes. Archives of Biochemistry and Biophysics 329 (1996) : 9-16.
- Poore, G., et al. Evidence for extrahepatic metabolism of parathion. Toxicology and Applied pharmacology 23 (1972) : 759-768.
- Powis, g., et al. Foreign compound metabolism studies with human liver obtained as surgical waste. Drug Metabolism and Disposition 16 (1988) : 582-589.
- Rao, K.S.P., Sahip, I.K.A., and Rao, K.V.R. Methyl parathion (O - O - dimethyl O - nitrophenyl thiophosphate) effect on whole - body and tissue respiration in the teleost, *Tilapia mossambica* Prters. Ecotoxicology and Environmental Safty 9 (1985) : 339-345.
- Reddy, M.S., and Rao, K.V.S. *In vivo* modification of lipid metabolism in response to phosphamidon, methyl parathion and lindane exposure in the penaeid praw, *Metapeneaus monoceros*. Bullentin of Environmetal Contamination Toxicology 43 (1989) : 603-610.
- Reddy, M.S., and Rao, K.V.R. Phosphamidon induced alterations in the nitrogen metabolic profiles of penaeid praw, *Penaeus indicus* during acute and chronic exposure. Proceeding of Indian Academy of Sciences of Animal Sciences 95 (1986) : 533-537.
- Reddy, M.S., and Rao, K.V.R. Methyl parathion induced alteration in the tissue carbohydrate catabolism of marine praw, *Metapenaeus monoceros*. Bullentin of Environmental Contamination and Toxicology 47 (1991) : 925-932.

- Reddy, P.S., Bhagylakshmi, A., and Ramanurthi, R. Molt - inhibition in the crab *Oziotelphusa senex senex* following exposure to malathion and methyl parathion. Bullentin of Environmental Contamination and Toxicology 35 (1985) : 92-97.
- Reddy, P.S., and Bhagylakshmi, A. A carbohydrate metabolism in tissue of fresh water crab (*Oziotelphusa senex senex*) exposed to methyl parathion. Bullentin of Environmental Contamination and Toxicology 36 (1986) : 204-210.
- Russo, R. C., and Thurston, R.V. The acute toxicity of nitrite to fishes. In Tubb, R.A. (ed) Recent advances in fish toxicology, pp.118-131. US. Environmental protection agency, Ecological Research Series EPA - 600/3-77- 085, Corvallis,oregon,1977.
- Russo, R.C., Smith, C.E.,and Thurston, R.V. Acute toxicity of nitrite to rainbow trout (*Salmo gairdneri*). Journal of the Fisheries Research Board of Canada 31 (1974) : 1653-1655.
- Sual, R.L., and Archer, M.C. Nitrate formation in rats exposed to nitrogen dioxide. Toxicology and Pharmacology 67 (1983) : 284-291.
- Serviokova, IF., and Peterson, J.A. NADPH - P450 reductase : Structural and functional comparison of the eukaryotic and prokaryotic isoforms. Biochemie 77 (1995) : 562-572.
- Shertzer, H.G., and Duthu, G.S. Nitrite binding to rabbit liver microsomal and effects on aminopyrine demethylation. Biochemical Pharmacology 28 (1979) : 873-879.
- Shoun, H., Suyama, W., and Kim, D. Unique - nitrate/nitrite - inducible cytochrome P450 in *Fasarium oxysporum* and related fungal species. Agriculture of Biology and Chemistry 55 (1991) : 593-596.
- Shoun, H., Suyama, W., and Yasui, T. Soluble, nitrite/nitrate - inducible cytochrome P450 of the fungal *Fasrium oxysporum*. FEBS LETTERS 224 (1989) : 11-14.

- Sipes, L.G., and Gandolfi, J.A. Biotransformation of toxicants. In C D. Klassen, M.O. Amdur and J. Doull (eds.) Casarett and Doull's Toxicology : the basic science of poisons. 3rd ed. Pp.83-93. New York : Macmillian Publishing Company, 1986.
- Skett, P., Tyson, C., Guillouzo, A., and Maier, P. Report on the international workshop on the use of human *in vitro* liver preparation to study drug metabolism in drug development. Biochemical Pharmacology 50 (1995) : 280-825.
- Sleiderink, H.M. et al. Influence of temperature and polyaromatic contaminants on Cyp 1A levels in Nort Sea dab (*Liminda liminda*). Aquatic Toxicology 32 (1995) : 189-209.
- Smith, C.E., and Williams, W.G. Experimental nitrite toxicity in rainbow trout and chinook salmon. Transaction of the American Fishries Society 130 (1974) : 89-90.
- Solecki, R., Fagi, A.S., and Hibig, V. Effects of methyl parathion on reproduction in the Japanese quail. Bullentin of Environmental Contamination and Toxicology 57 (1996) : 902-908.
- Sotaniemi, E.A., Arranto, A.J., Pelkonen, O., and Pasanen, P. Age and cytochrome P450 - linked drug metabolism in human : An analysis of 226 subjects with equal histopathologic conditions. Clinical Pharmacology and Therapeutics. (1997) : 331-339.
- Srivatanakul, P. et al. *Opisthorchis viverini* infestation and endrogenous nitrosamines as risk factors for cholangio carcinoma in Thailand. International Journal of Cancer 48 (1991) : 821-825.
- Stedler, J. et al. Inhibition of cytochrome P450 1A by nitric oxide. Proceedings of the National Acadamy of Sciences of The Unitated States of America 91 (1994) : 3559-3565.

- Stegman, J.J., and Binder, R.L., and Orren, A. Hepatic and extrahepatic microsomal electron transport components and mixed function oxygenase in the marine fish (*Stenotomus versicolor*). Biochemical Pharmacology 28 (1979) : 3431-3439.
- Stegman J.J., and Chevion, M. Sex differences in cytochrome P450 and mixed function oxygenase activity in gonadally mature trout. Biochemical Pharmacology 29 (1980) : 553-558.
- Svorcova, S., and Kaut. V. Arteriovenous differences in the nitrite and nitrate ion concentrations in rabbits after inhalation of nitrogen oxides. CESK HYG 16 (1971) : 71-76
- Til, H.P., Kuper, C.F., and Falke, H.E. Nitrite induced adrenal effects in rats and the consequences for the no - observed effect level. Food and chemical Toxicology 35 (1997) : 349-355.
- Tomasso, J.R., Wright. M.I., Simco, B.A., and Davis, K.B. Inhibition of nitrite - induced toxicity in channel catfish by calcium chloride and sodium chloride. Progressive Fish Culturist 42 (1980) : 144-146.
- Vlaskina, S.G., Zhukova, G.f., Alekseeva, I.A., Aleskko, Iup., and Khotimchenko, S.A. Effects of iron deficiency on toxication of nitrites and endogenous synthesis of N - nitrosamines. Voprosy Pitaniia 6 (1996) : 27-30.
- Vorhees, C.V., Butcher. R.E., Brunner, R.L., and Wootten, V. Developmental toxicity and psycotoxicity of sodium nitrite in rats. Food and Chemical Toxicology 22 (1984) : 1-6.
- Walker, R. The metabolism of dietary nitrites and nitrates. Biochemical Society Transaction 24 (1996) : 780-784.
- Wade, A.E., Wu, B., and Green, F.E. Some *in vitro* assay conditions that effect quantitation and stability of cytochrome P450 and b5. Toxicology Applied Pharmacology 22 (1972) : 503-512.

- Waskell, L.A., Vigne, J.L., and Vergeres, G. Site of action of substrates requiring cytochrome b5 for oxidation by cytochrome P450. Methods in Enzymology 206 (1991) : 523-529.
- Watenpaugh, D.E., Beitinge, T.L., and Huey, D.W. Temperature tolerance of nitrite exposed channel catfish. Transaction American Fisheries Society 114 (1985) : 272-278.
- Wedemeyer, G.A., and Yasutake, W.T. Prevention and treatment of nitrite toxicity in juvenile Steelhead trout (*Salmo gairdneri*). Journal of the Fisheries Research Board of Canada 35 (1978) : 822-827.
- Westin, D.T. Nitrate and nitrite toxicity to salmonid fishes. Progressive Fish Culturist 36 (1974) : 86-89.
- Wichita, T., and Wongwiwat, T. Towards understanding cytochrome P450. Thailand Journal of Pharmacology 18 (1996) : 43-61.
- Widnell, C.C. Response of NADPH cytochrome C reductase and cytochrome P450 in hepatic microsomes to treatment with phenobarbital - differences in rat strains. Biochemical Pharmacology 24 (1975) : 2105-2106.
- Wu, D., and Cederbaun, I. Induction of liver cytochrome P450 2E1 by pyrazole and methyl pyrazole in neonatal rats. The Journal of Pharmacology and Experimental Therapeutics 264 (1993) : 1468-1473.
- Wu, Y., Brouet, I., Calmeles, S., Bartsch, H., and Ohshima, H. Increased endogenous N-nitrosamine and nitrate formation by induction of nitric oxide synthase in rats with acute hepatic injury caused by *Propionibacterium acnes* and lipopolysaccharide administration. Carcinogenesis 14 (1993) : 7-10.
- Yamamoto, K., and Degroot, L. Participation of NADPH - cytochrome C reductase in thyroid - hormone biosynthesis. Endocrinology 96 (1975) : 1022-1029.

ประวัติผู้เขียน

ร้อยตำรวจโท หญิง กรรณิกา โส้ห์ทอง เกิดเมื่อ วันที่ 10 ตุลาคม พ.ศ. 2512 สำเร็จการศึกษาระดับปริญญาตรีพยาบาลศาสตร์ จากวิทยาลัยพยาบาลตำรวจ เมื่อปีการศึกษา 2535 เข้าทำงานในตำแหน่งพยาบาล สบ.1 ในหอผู้ป่วยศัลยกรรมชายโรงพยาบาลตำรวจ และเข้าศึกษาในหลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาเภสัชวิทยา จุฬาลงกรณ์มหาวิทยาลัยเมื่อปีการศึกษา 2538

