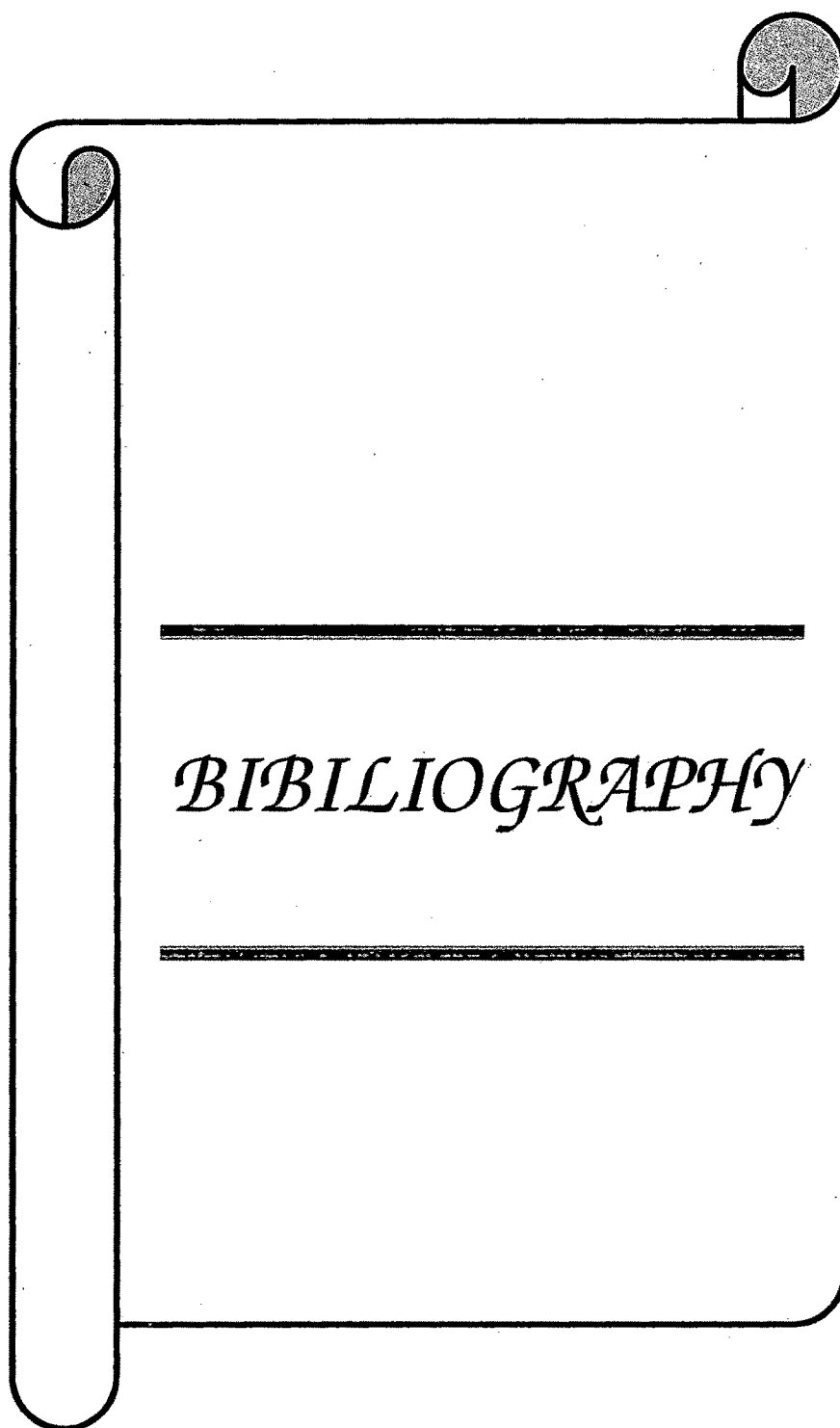




BIBLIOGRAPHY

Adhikari, S. and Gupta, S.K. (2002). Assessment of the quality of sewage effluents from Dry Weather Flow Channel, Calcutta. *INDIAN J. ENVIORN HLTH.* **44 (3):**197 – 202.

Agnihotri, N.P. (1999). *Pesticide Safety Evaluation and Monitoring.* Pub. By All India Coordinated Research Project on Pesticide Residue. Division of Agricultural Chemicals, Indian Agriculture research Institute, New Delhi, India.

Annau, Z. (1990). Behavioral toxicology and risk assessment. *Neurotoxicol Teratol.* **12(5):**547-551.

ATSDR (1999). Toxicological Profile for lead. Agency for Toxic Substances and Disease Registry (ATSDR). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service. CAS# 7439-92-1. Web site. www.atsdr.cdc.gov/toxprofiles/tp13.html.

ATSDR (December, 2004). Draft Interaction Profile For: Chlorpyrifos, Lead, Mercury, and Methylmercury. Prepared by: Syracuse Research Corporation under contract N°. 205-1999-00024 Prepared for: U.S. Department of Health and Human Services Public Health Service Agency for Toxic Substances and Disease Registry (ATSDR).<http://www.atsdr.cdc.gov/interactionprofiles/IP-11/ip11-.pdf>.

ATSDR (2005). Case Studies in Environmental Medicine - Lead Toxicity. Agency for Toxic Substances and Disease Registry : U.S. Department of Health and Human Services, Public Health Service.
www.atsdr.cdc.gov/toxprofiles/tp13-C3.pdf

Audesirk, G. and Audesirk, T. (1998). Neurite Development. In: *Handbook of Developmental Neurotoxicology*. (Eds Slikker, W. JR. and Chang L.W.) Academic press, California, pp 61- 85.

Bakry, N. M. S., El-Rashidy, A. H., Eldefrawi, A.T., and Eldefrawi, M. E. (1988). Direct actions of organophosphate anticholinesterases on nicotinic and muscarinic acetylcholine receptors. *J. Biochem. Toxicol.* (3): 235-259.

Bansal, O.P. (2004). Pesticides and heavy metals in soils of Aligarh district : accumulation of heavy metals in plant species. *Pesticide Research Journal* 16(1): 71-78.

Barstad, J.A. (1978). Pesticides and heavy metals as food contaminants. *Arch toxicol Suppl.* (1): 47-54.

Bartels, H. et al (1972). Clin Chim Acta; 37:193 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Benjamin, M. M. (2001). Blood Smear. In: *Outline of Veterinary Clinical Pathology*. Kalyani Publishers, New Delhi. pp. 25 -37.

Benjamin, M. M. (2001a). Erythrocytes and its disorders. In: *Outline of Veterinary Clinical Patholgy*. Kalyani Publishers, New Delhi, pp. 121- 149.

Biuret Method, ERBA (2002). Total Protein- Biuret Method, as cited in the reagent leaflet provided by ERBA Diagnostics Mannheim GmbH, Germany.

Broxup, B., Robinson, K., Losos, G. and Beyrouty P. (1989). Correlation between behavioral and pathological changes in the evaluation of neurotoxicity. *Toxicol. Appl. Pharmacol.* **101**: 510-520.

Bushnell, P.J., Pope, C.N. and Padilla, S. (1993). Behavioral and neurochemical effects of acute chlorpyrifos in rats: tolerance to prolonged inhibition of cholinesterase. *J Pharmacol Exp Ther.* **266**(2):1007-1017.

Bushnell, P.J., Kelly K.L. and Ward T.R. (1994). Repeated inhibition of cholinesterase by chlorpyrifos in rats: behavioral, neurochemical and pharmacological indices of tolerance. *J Pharmacol Exp Ther.* **270**(1):15-25.

Chambers, H. W., Boone, J.S., Carr, R.L., and Chambers, J.E. (2001). Chemistry of Organophosphorus Insecticides. In: *Hand Book of Toxicology* (Ed Krieger R. I.), 2nd edition, volume 2, Academic press, California, pp. 913- 917.

Chiodo, L.M., Jacobson, S.W. and Jacobson J.L. (2004). Neurodevelopmental effects of postnatal lead exposure at very low levels. *Neurotoxicology and Teratology* (26): 359-371.

Clark, C., Clark R., Thuppil, V., Menezes, G., D'Souza, H., Sinha, S., Nayak, N., Kuruvilla, A., Dave, P. and Shah, S. (2004). Lead in Household Paints in India. Podium 118. Lead, 137.
<http://www.aiha.org/abs04/po118.htm>

Claudio, L., Kwa C.W., Russel A.L. and Wallinga, D. (2000). Contemporary Issues in Toxicology - Testing Methods for Developmental Neurotoxicity of Environmental Chemicals. *Toxicology and Applied Pharmacology* (164): 1- 14.

Cory- Slechta, D.A., Flaughner, C.L., Evans, S.B., Pokora, M.J. and Greenamyre, J.T. (1997). Susceptibility of adult rats to lead-induced changes in NMDA receptor complex function. *Neurotoxicol Teratol.* 19(6): 517-530.

Danish EPA (2005). The five pesticides mode of action, target organ and possible interactions. In: In vivo investigation of dietary exposure to 5 pesticides. Danish Environmental Protection Agency (Danish EPA), Danish Ministry of the Environment. Web site-
mst.dk/udgiv/publications/2003/87-7614-060-/html/kap05_eng.htm.

Davidson, K. A. (1994). Toxicity summary for lead (Inorganic). Chemical hazard evaluation and communication program. Prepared for oak ridge reservation environmental restoration program. website-<http://tox/profiles/lead.doc+Kowetha+A.+Davidson,+Ph.D.,+&hl=en>

Deutschen Gesellschaft fur klinische Chemie (1972). Standard-Methode zur Bestimmung der Aktivitat der alkalischen Phosphatase. Z klin Chem u klin Biochem; 10:191 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Dey, S. and Dwivedi S. K. (2000). Toxic Metals in Hens' Eggs in India: A Preliminary Report. http://www.findarticles.com/p/articles/mi_m0907/is_5_55/ai_67372590.

Dhaliwal, G.S., Singh, B. and Pathak, M.D. (2000). Pesticides in Developing Countries: Retrospect and Prospect. In: *Pesticides and Environment*. (Eds. Dhaliwal G.S. and Singh B.), Common wealth Publishers, New Delhi, pp. 01-38.

Dietert, R.R., Etzel, R.A., Chen, D., Halonen, M., Holladay, S.D., Jarabek, A. M., Landreth, K., Peden, D.B., Pinkerton, K., Smialowicz, R. J. and Zoetis, T. (2001). Workshop to Identify Critical Windows of Exposure for Children's Health: Immune and Respiratory Systems Work Group Summary. *Environmental Health Perspectives Supplements* **108**: S3.

Doumas B.T., Arenda R.L. and Pinto P. C (1972). Albumin- BCG Dye Method. In. Standard Methods of Clinical Chemistry Vol. 7, pp. 175-189 as cited in the reagent leaflet provided by ERBA Diagnostics Mannheim GmbH, Germany.

Down to Earth (October 15, 2004). UN/Pesticide, No Safety Numbers. October 15, 2004, p.11.

Down to Earth (Nov 15, 2004). Lead: Illegal gains. Down to Earth Nov 15, 2004, pp. 33-36.

Ehrich, M. and Jortner, B.S. (2001). Organophosphorus – Induced delayed Neuropathy. In: *Handbook of Toxicology* (Ed Krieger R. I.), Volume 2, 2nd edition, Academic press, California, pp. 987-1012.

Ellman, G.L., Courtney, K.D., Andre, Jr.V. and Featherstone, R.M. (1961). A new rapid colorimetric determination of acetylcholinesterase activity. *Biochem. Pharm.* (7):89-95.

Environ Health Perspect (1996). Comprehensive Neurotoxicity Assessment. Department of Neurotoxicology and Reproduction Toxicology, TNO Nutrition and Food Research Institute, Rijswijk, The Netherlands. **104 (2):** 317-322.

EU. B.26. (2001). “ Subchronic Oral Toxicity Test: Repeated Dose 90-day Oral Toxicity Study in Rodents”. Official Journal of European Communities, L 225/150 - 156.

Fiedler, N., Feldman, R.G., Jacobson, J., Rahill, A. and Wetherell, A. (1996). Risk Assessment for Neurobehavioral Toxicity. The Assessment of Neurobehavioral Toxicity: SGOMSEC Joint Report. *Environ Health Perspect* **104(2)**:179-191.

Flack, C.P. and Wollen, J. W. (1984). Clin. Chem. (30) 559 as cited in the reagent leaflet provided by ERBA Diagnostics Mannheim GmbH, Germany.

Geist, C.R. and Praed, J.E. (1982). Chronic lead exposure of rats; open-field performance. *Percept Mot Skills*. **55(2)**: 487-490.

Gerber, G.J. and O'Shaughnessy, D. (1986). Comparison of the Behavioral Effects of Neurotoxic and Systemically Toxic Agents: How Discriminatory are Behavioral Tests of Neurotoxicity? *Neurobehavioral Toxicology and Teratology* **(8)**: 703-710.

Gill, J.P.S. (2001). Pesticide Residues in Food of Animal Origin and its Public health Significance. In: *Advances in Clinical Toxicology with Special Reference to Environmental and Industrial Toxicants*, October 16 – November 5, (Ed. Srivastava A.K.), CSIR Published, New Delhi, pp.180-186.

Gindler, E.M. and King, J.D. (1972). Am J Clin Pathol **(58)**:376 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Goldstein, R. S. and Schnellmann, R.G. (1996). Toxic Response of the Kidney. In: *Casarett and Doull's Toxicology - The Basic Science of Poisons*. (Eds. Klassen, C.D., Amdur, M.O. and Doull, J.) 5th edition, The McGraw-Hill Companies, Inc., pp. 417-442.

Gordon, C.J. and Fogelson, L. (1993). Relationship between serum cholinesterase activity and the change in body temperature and motor activity in the rat: a dose-response study of diisopropyl fluorophosphates. *Neurotoxicol Teratol.* **15(1)**: 21-25.

Gordon, C.J. (1994). Thermoregulatory effects of chlorpyrifos in the rat: long-term changes in cholinergic and noradrenergic sensitivity. *Neurotoxicol Teratol.* **16 (1)**:1-9.

Goyer, R. A. (1996). Toxic Effects of Metals. In : *Casarett and Doull's Toxicology - The Basic Science of Poisons*. (Eds. Klassen, C.D., Amdur, M.O. and Doull, J.) 5th edition, The McGraw-Hill Companies, Inc. pp. 691-736.

Grip Strength Meter, Manual. Operation Manual, Columbus Instruments, Ohio, USA.

Gross-Selbeck, E. and Gross-Selbeck, M. (1981). Changes in operant behavior of rats exposed to lead at the accepted no-effect level. *Clin Toxicol.* **18(11)**:1247-1256.

Guilarate, T.R. (1997). Pb²⁺ inhibits NMDA receptor function at high and low affinity sites: developmental and regional brain expression. *Neurotoxicology*, **18**(1): 43-51.

Gupta, S.K and Mitra, A. (2000). Assessment of the quality of raw and treated sewage effluents from some selected treatment plants within the Calcutta Metropolitan area and potential health risk from their cycling. *Poll Res.* **19** (4): 677 – 683.

Hall, R.L. (1992). Clinical Pathology of Laboratory Animals. In : *Animal Models in Toxicology*. (Eds. Gad S.C. and Chengelis C.P.) Marcel Dekker, Inc., New York, pp. 765 - 811.

Handa, S. K., Agnihotri, N.P. and Kulshrestha, G. (1999). Maximum Residue Limit of Pesticides. In: *Pesticide Residues-Significance, Management and Analysis*. Research Periodicals and Book Publishing House, New Delhi, pp 9-21.

HED (2000). Health Effect Division's (HED) chlorpyrifos -reevaluation based on *phase 3* (public comments) of the TRAC process - Report of the Hazard Identification Assessment Review Committee. HED DOC. N°. 014088. www.epa.gov/pesticides/op/chlorpyrifos/reevaluation

Henry, R. (1974). Clinical Chemistry: Principles and Techniques, 2nd edition, New York, NY: Harper and Row, 723 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Hitachi Instruction Manual (1996). Hitachi Instruction Manual, Model 902, Automatic Analyser, Hitachi Ltd, Japan.

Howard, M.D. and Pope, C.N. (2002). In-vitro effects of chlorpyrifos, parathion, methyl parathion and their oxons on cardiac muscuranic receptor binding in neonatal and adult rats. *Toxicology*, **170 (1-2)**: 1-10.

Huff, R.A., Abu-Qare A.W. and Abou-Donia, M.B. (2001). Effects of sub-chronic in vivo chlorpyrifos exposure on muscarinic receptors and adenylyate cyclase of rat striatum. *Arch Toxicol*. **75 (8)**:480-486.

IFCC (1986). Approved recommendation on IFCC methods for the measurement of catalytic concentration of enzymes. Part 3. IFCC Method for alanine aminotransferase. *J Clin Chem Clin Biochem* **(24)**:481-489.

ITRC (2000). Heavy Metals in Indian Environment. Industrial Toxicology Research Centre, Lucknow. ANNEX – B – 10 and Annex B11. Web Site envfor.nic.in/cpcb/hpcreport/vol3k.htm.

Jayakumar, C. (2003). [Remember –bhopal] Chlorpyrifos (eg Dursban) withdrawn in US. Website-<http://lists.essential.org/pipermail/remember-bhopal/2002-February/000312.html>.

Jett, D. A. (1998). Central Cholinergic Neurobiology. In: *Handbook of Developmental Neurotoxicology*. (Eds Slikker, W. JR. and Chang, L. W.), Academic press California, pp. 257- 274.

Joia, B.S. (2001). Analysis of Pesticide Residues in the Environment – An over view. In: *Advances in Clinical Toxicolgy with Special Reference to Environmental and Industrial Toxicants*. October 16 – November 5, (Ed. Srivastava A.K.), CSIR Published, New Delhi, pp.198-205.

Karanth, S. and Pope, C. (2003). Age related effects of chlorpyrifos and parathion on acetylcholine synthesis in rat striatum. *Neurotoxicol Teratol*, **25 (5)**:559-606.

Katz, E. J., Cortes, V. I., Eldefrawi, A. T. (1997). Chlorpyrifos, parathion, and their oxons bind to and desensitize a nicotinic acetylcholine receptor; relevance to their toxicities. *Toxicol. Appl. Pharmacol*. **146**: 227-236.

Keen, R.W., Deacon, A.C., Delves, H.T. Moreton, J.A. and Frost, P.G. (1994). Indian herbal remedies for diabetes as a cause of lead poisoning. *Postgrad Med J*, **(70:820)**: 113-114.

Kishi, R., Ikeda, T., Miyake, H., Uchino, E., Tsuzuki, T. and Inoue, K. (1983). Effects of low lead exposure on neurobehavioral function in the rat. *Arch Environ Health*. **38 (1)**: 25 – 33.

Knedel, M. and Bottger, R. (1967). Eine kinetische Methode zur Bestimmung der Aktivitat der Pseudocholinesterase. *Klin Wschr* **(45)** 325-327 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Krishna, V.V., Byju, N. G. and Tamizheniyan, S. (2003). "Integrated Pest Management in Indian Agriculture: A Developing Economy Perspective". In: Radcliffe's IPM World Textbook. Web site <http://ipmworld.umn.edu/chapters/Krishna.htm>.

Lammers, J.H.C.M. and Kulig, B.M. (1997). Multivariate Time of Peak Assessment for use in selecting time of testing in acute neurotoxicity studies. The IPCS Collaborative study on Neurobehavioral Screening Methods, (Ed Moser V.C.) Intox Press, Inc., *Neurotoxicology* **18(4)**: 1079-1084.

Lark, B.S., Mahajan, R.K. and Walia, T.P.S. (2002). Determination of metals of toxicological significance in sewage irrigated vegetables by using atomic absorption spectrometry and anodic stripping voltammetry. *INDIAN J. ENVIORN HLTH.* **44 (2)**: 164 – 167.

Lock, E.A. (1995). Responses of kidney to toxic compounds. In: *General and Applied Toxicology*. (Eds. Ballantyne B., Marrs T. and Turner P.) The Macmillon Press Ltd., pp. 443 – 472.

Marshall, F. and Agrawal R. (April 2003). Wash your spinach, twice. Web site. www.toxicslink.org

Mattsson, J. L., Wilmer, J. W., Shnkar, M. R., Berdasco, N. M., Crissman, J.W., Maurissen, J. P. and Bond, D. M. (1996). Single-dose 13 week repeated-dose neurotoxicity screening studies of chlorpyrifos insecticide. *Food and chemical Toxicology* (34) 393 - 405.

Maurissen J.P.J. and Mattsson J.L. (1995). Neurotoxicology: An Orientation. In: *Patty's Industrial Hygiene and Toxicology*. (Eds. Cralley L.J., Cralley L.V. and Bus J.S.) 3rd edition, Volume 3, Part B, John Wiley and Sons, Inc., pp. 231-254.

Maurissen, J.P.J. and Mattsson, J.L., (1989). Critical Assessment of Motor Activity as a Screen for Neurotoxicity. *Toxicology and Industrial Health* **5(2)**:195-203.

Meyer, J.S. (1998). Behavioral assessment in developmental neurotoxicology – approaches involving unconditioned behaviors and pharmacologic challenges in rodents. In: *Hand Book of Developmental Neurotoxicity*. (Eds Slikker, W. JR. and Chang, L. W.), Academic press California, pp. 403-426.

Morgan, J.N. (1999). Effects of processing of heavy metal content of foods. *Adv Exp Med Biol*. **459**:195-211.

Moser, V.C., McCormick, J.P., Creason, J.P. and MacPhail, R.C. (1988). Comparison of chlordimeform and carbaryl using a functional observational battery. *Fundam Appl Toxicol*. **11**:189-206.

Moser, V.C. (1989). Screening approaches to neurotoxicity: a functional observational battery. *Journal of the American College of Toxicology*, **8 (1)**: 85-93.

Moser, V.C., Becking, G .C., Cuomo, V., Frantik, E., Kulig, B.M., MacPhail, R.C., Tilson, H.A., Winneke, G., Brightwell, W. S., DeSalvia, M .A., Gill, M W., Haggerty, G.C., Hornychova, M., Lammers, J., Larsen J.J., McDaniel, K.L., Nelson, B.K. and Ostergaard, G. (1997). The IPCS Collaborative study on Neurobehavioral Screening Methods : V. Results of Chemical Testing. (Ed Moser V.C.), Intox Press, Inc., *Neurotoxicology*, **18(4)**: 969-1056.

Nasreddine, L and Parent-Massin, D. (2002). Food contamination by metals and pesticides in the European Union. Should we worry? *Toxicol Lett.* **28; 127 (1-3)**:29-41.

Nation, J.R., Bourgeois, A.E. and Clark, D.E. (1983). Behavioral effects of chronic lead exposure in the adult rat. *Pharmacol Biochem Behav.* **18 (6)**: 833-840.

Neurochemistry, 388. Neurotoxicity of Lead. Category: Neurochemistry Term Paper code: 388, Web site. http://sulcus.berkeley.edu/mcb/165_001/papers/manuscripts/_388.html

Nostrandt, A.C., Nostrandt, A.C., Padilla, S. and Moser, V.C. (1997). The relationship of oral chlorpyrifos effects on behavior, cholinesterase inhibition, and muscarinic receptor density in rat. *Pharmacol Biochem Behav.* **58(1)**:15-23.

OECD (2002). Guidance notes of analysis and evaluation of repeated dose toxicity studies. In: *OECD Series on Testing and Assessment*. N° 32, ENV/JM/MONO (2000)18.

OECD (2003). Revised draft guidance document for neurotoxicity testing. In: *OECD Series on Testing and Assessment*. N° 20.

OECD N° 408 (1998). "Repeated dose 90-day oral toxicity study in rodents". The Organization for Economic Co-operation and Development (OECD) guidelines for the testing of chemicals, adopted by the council on September 21, 1998.

OECD N° 424 (1997). "Neurotoxicity study in rodents". The Organisation for Economic Co-operation and Development (OECD) guidelines for the testing of chemicals, adopted on 21 July, 1997.

Opto varimex Micro Animal Activity Measuring System Manual. Operaton Manual, Columbus Instruments, Ohio, USA.

OPPTS 870.6200 (1996). "Neurotoxicity Screening Batteries". U.S.EPA Health Effects Test guidelines N° OPPTS 870.6200.

Ossian, A., Tefas, L., Orbai, E., Ionut, R., Creteanu, E. and Barbu, L., (1998). Disturbances of calcium metabolism in heavy metals exposure. Certainties and controversial data. Presented at INABIS '98 - 5th Internet World Congress on Biomedical Sciences at McMaster University, Canada, Dec 7-16th. www.mcmaster.ca/inabis98/occupational/ossian0290/index.html.

Pandey, R.K., Verma, A.A. and Misra, S.K. (2004). Distribution of Heavy Metals in the Waste Water of River Pandu at Kanpur. *Poll Res.* **23(2):** 335 -342.

Parmar, B.S. and Dureja, P, (2004). Plant protection chemicals : Policy issues. *Pesticide Research Journal*. **16(1)**: 01-04.

Pesticide Manual (1997). Chlorpyrifos (Ed. Tomlin C.D.S.) 11th edition, British Crop Protection Council, p. 235.

Pope, C.N., Chakraborti, T.K., Chapman, M.L. and Farrar, J.D. (1992). Long-term neurochemical and behavioral effects induced by acute chlorpyrifos treatment. *Pharmacol Biochem Behav.* **42(2)**:251-256.

Pope, C.N., Karanth, S., Liu, J. and Yan, B. (2005). Comparative carboxylesterase activities in infant and adult liver and their in-vitro sensitivity to chlorpyrifos oxon. *Reg Toxicol Pharmacol*, **42 (1)**: 64-69.

Popper, H. (1937). Biochem Z 1937; 291:354 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Rao, A.S. and Rao P.R. (2000). Study on Pesticide Residues in Vegetable. *Poll. Res.* **19 (4)**: 661 – 664.

Rapid Chem 744 (2002). Operators Manual.

Regulatory Affairs Bulletin – 71. Regulatory Aspects of Neurotoxicity Testing. Number 71, pp. 17-42.

Roeschlau, P., Bernt E., and Gruber W.A. (1974). Cholesterol DES Dynamic extended Stability CHOD-PAP method, End Point with Lipid Clearing Agent. Clin. Chem. Clin Biochem 12(226) as cited in the reagent leaflet provided by ERBA Diagnostics Mannheim GmbH.

Rosol, T.J., Yarrington, J.T., Latendresse, J. and Capen, C.C. (2001). Adrenal gland: Structure, function and, mechanism of toxicity. *Toxicology pathology*, **29 (1)**: 41 - 48.

Rozman, K.K., Doull, J. and Hayes, Jr. W.J. (2001). Dose, Time, and Other Factors Influencing Toxicity. In: *Handbook of Pesticide Toxicology*. (Ed Krieger R. I.), 2nd edition, Volume 1, Academic press, California, pp. 01- 93.

Satar S., Satar, D., Tap, O., Koseoglu, Z. and Kaya, M. (2004). Ultrastructural changes in rat liver treated with pralidoxime following acute organophosphate poisoning. *The Mount Sinai Journal of Medicine*, **71(6)**: 405- 410.

Savolainen, K. (2001). Understanding the Toxic Action of Organophosphates. In: *Hand Book of Pesticide Toxicology* (Ed Robert Krieger), 2nd edition, Academic press, California, pp. 1013-1041.

Seelig, H.P. and Wust (1969). Arztl labor 1969;15:34 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Sharma, D. (2003). Ground water not the culprit. August 23, 2003 www.indianjungles.com/290803j.htm.

Singh, M., Sandhir, R. and Kiran, R. (2004). In vitro effects of organophosphate pesticides on rat erythrocytes. *Indian Journal of Experimental Biology*, **42**: 292-296.

Singhal, S. (2000). The Pesticides Scenario. India Chem 2000, October 6-8, website-ficci.com/ficci/media-room/speeches-presentations/2000/oct/oct6-indiachem-salil.htm.

Slobozhanina E.I., Kozlova N.M., Lukyanenko L.M., Oleksiuk O.B., Gabbianelli R., Fedeli D., Caulini G.C. and Falcioni G. (2005). Lead-induced changes in human erythrocytes and lymphocytes. *J Appl Toxicol*, **25 (2)**: 109 - 114.

Srivastava, A.K. and Dumka, V.K. (2001). Pesticides major source of environmental pollution. In: *Advances in Clinical Toxicology With Special Reference to Environmental and Industrial Toxicants*. Winter School., October 16 - November 5, (Ed. Srivastava A.K.), CSIR Published, New Delhi, pp.12-43.

Stanton, M.E., Mundy, W.R., Ward, T., Dulchinos, V. and Barry, C.C. (1994). Time-dependent effects of acute chlorpyrifos administration on spatial delayed alternation and cholinergic neurochemistry in weanling rats. *Neurotoxicology* **15(1)**: 201-208.

Stevenson, A., Merali, Z., Kacew, S. and Singhal, R.L. (1976). Effects of subsacute and chronic lead treatment on glucose homeostasis and renal cyclic AMP metabolism in rats. *Toxicology*, **6(3)**: 265-275.

Stefanski, S. A., Elwell, M. R. and Stromberg, P. C. (1990). Spleen, lymph nodes, and thymus. In *Pathology of the Fischer Rat* (Eds. G. A. Boorman, S. L. Eustis, M. R. Elwell, C. A. Montgomery, Jr., and W. F. MacKenzie), Academic Press, New York, pp. 369- 393.

Stonard, M.D. and Evans, G.O. (1995). Clinical chemistry. In: *General and Applied Toxicology*. (Eds Ballantyne B., Marrs T., and Turner P) The Macmillan Press Ltd. London, pp. 247-276.

Suber, R.L. (1994). Clinical pathology methods for toxicology studies. In: *Principles and Methods of Toxicology* (Ed Hayes, A. W.) 3rd edition, Raven press Ltd., New York, pp.729-766.

Sysmex Operator's Manual K-1000 (1998). TOA Medical Electronics Co., Ltd. Kobe, Japan.

Talke, H. and Schubert, G.E. ('1965). Enzymatische Harnstoffbestimmung im Blut und Serum im optischen Test nach Warburg. *Klin wscrh* 1965; **43**: 174 -175 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

The NRA Review of Chlorpyrifos (2000). The NRA Review of Chlorpyrifos, Volume 1, NRA Review Series 00.5, National Registration Authority for Agricultural and Veterinary Chemicals, Canberra, Australia. Web site. <http://permits.nra.gov.au/chemrev/chlorpyrifos/summary.pdf>

The Times of India Online (2003). The Times of India Online News from the world on the dangers of pesticides in soft drinks - September 2003. http://www.laleva.cc/food/pesticides_cocacola2.html

Thompson, H.M. (2000). Esterases as markers of Exposure to Organophosphates and Carbamates. In: *Ecotoxicology* 8, Kluwer Academic Publishers, Boston, pp. 369-384.

TIFAC (2003). Chlorpyrifos -upscaling and modernisation of manufacturing methods. <http://www.tifac.org.in/do/hgt/case/chlorpyrifos.htm>

Tilson H.A. (1993) Neurobehavioral methods used in neurotoxicology *NIDA Res Monogr.* **136**:1-30

Tilson, H.A. (2000). New horizons: future directions in neurotoxicology. *Environ Health Perspect.* **108(3)**:439-441.

Timchalk, C. (2001). Organophosphate Pharmacokinetics. In: *Hand Book of Pesticide Toxicology* (Ed Krieger R.I.), 2nd edition, Volume 2, Academic press, California, pp. 929- 951.

Trinder, P. (1969). Determination of glucose in blood using glucose oxidase with an alternative oxygen acceptor. *Ann clin Biochem* **(6)**:24-27 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Tvedten, H. and Weiss, D. J. (2000). Classification and laboratory evaluation of anemia. In. *Schalm's Veterinary Hematology*. (Eds. Feldman B.F., Zinkal J.G., Jain N.C.), 5th edition, Lippincott Williams and Wilkins, pp.143 -150.

U.S. EPA, (2000). Toxicology chapter for chlorpyrifos. United States Environmental Protection Agency. Office of Prevention, Pesticides and Toxic Substances., Washington, D.C. 20460, Web Site-http://www.epa.gov/oppsrrd1/op/chlorpyrifos/rev_tox.pdf.

Verma, R.S., Jatav, P.C. and Srivastava, N. (2002). Chlorpyrifos induced inhibition and reactivation of serum cholinesterase activity in rats. *Indian J. Toxicol*, **9 (1)**: 29-93.

Verma, R.S., Mehta, A. and Srivastava, N. (2004). Chlorpyrifos and methyl parathion induced in the levels of glutathione in different regions of rat brain: attenuation by antioxidant vitamins. 23rd annual conference of STOX, India, 28-30, October; cited in *Toxicology International* **12 (1)**:52.

Vorhees, C.V. (1996). Design consideration in the use of behavioral test batteries for the detection of CNS dysfunction in laboratory animals. *Mental Retardation and Developmental Disabilities Research News* **2**:227-233.

Wagner, D. (1999). Toxicological evaluations – Chlorpyrifos. Joint meeting of the FAO Panel of Experts on Pesticide Residues in Food and the Environment and the WHO Core Assessment Group Rome, 20-29 September 1999. Web Site www.inchem.org

Wahid, A. (2004). Pesticides, Environment and the Developing World. *Research Journal of Chemistry and Environment*, **8 (3)**: 3 - 4.

Wahlefeld, A.W., Herz. G and Bernt. E. (1972). Modification of the Malloy-Evelyn method for a sample, reliable determination of total bilirubin in serum. *Scand J Clin Lab Invest* 1972; 29 as cited in the reagent leaflet provided by Boehringer Mannheim, Germany.

Weiss, B. and Cory-Slechta, D. A. (1994). Assessment of behavioral toxicity. In: *Principles and Methods of Toxicology*. (Ed A. Wallace Hayes), 3rd edition, Raven press Ltd., New York, pp. 1091-11483.

Wenger, G.R. (1990). Operant behavior as a technique for toxicity testing. *Neurotoxicol Teratol.* **12(5)**:515-521.

Whitney, K.D., Seidler F.J. and Slotkin T.A. (1995). Developmental neurotoxicity of chlorpyrifos : cellular mechanisms. *Toxicology and Applied Pharmacology* **134**: 53-62.

WHO (1986). International programme on chemical safety, environmental health criteria 60, Principles and methods for the assessment of neurotoxicity associated with exposure to chemicals.

World Health Organization, Geneva. www.inchem.org/documents/ehc/ehc/ehc060.htm.

Wilson, B. W. (2001). Cholinesterases. In: *Hand Book of Pesticide Toxicology* (Ed Robert Krieger), 2nd edition, Academic press, California, pp. 967- 985.

Won, Y.K., Liu, J., Olivier, K. Jr., Zheng, Q. and Pope, C.N. (2001). Age-related effects of chlorpyrifos on acetylcholine release in rat brain. *Neurotoxicology*. **22**(1):39-48.

World Environment Day (2001). Current status of lead in India. web Site <http://www.envisitrc.com/lead.html>

Wu, J. and Larid, D.A. (2003). Abiotic transformation of chlorpyrifos to chlorpyrifos oxon in chlorinated water. *Environ Toxicol Chem*, **22** (2): 261-264.

Wu, Y.J., Harp, P., Yan, X.R. and Pope, C.N. (2003). Nicotinic autoreceptor function in rat brain during maturation and aging: possible differential sensitivity to organophosphorus anticholinesterases. *Chem Biol Interact*. **142**(3):255-268.

Yagle, K. and Costa, K.L.G. (1996). Effects of organophosphate exposure on muscarinic acetylcholine receptor subtype mRNA levels in the adult rat. *Neurotoxicology*. **17**(2):523-530.

Yano, B.L., Young, J.T. and Mattsson, J.L. (2000). Lack of carcinogenicity of chlorpyrifos insecticide in a high - dose, 2 - year dietary toxicity study in Fischer 344 rats. *Toxicological Sciences* **53**: 135-144.

Zheng, Q., Olivier, K., Won Y.K. and Pope, C.N. (2000). Comparative cholinergic neurotoxicity of oral chlorpyrifos exposures in preweanling and adult rats. *Toxicological Sciences* **55**: 124-132.

Zhou, z., Dai, X., Gu, X., Sun, Y., Zheng, G. and Zheng, J. (2005). Memantine alleviates toxicity induced by dichlorvos in rats. *J Occup Health*. **47**:96-101.

Zou Y., Brandvold D. and Zhaohuili (2004). Heavy metal Analysis of Ponderosa Pine Tree Rings along the Upper Pecos River. *Research Journal of Chemistry and environment*, **8 (3)**: 5 - 10.