

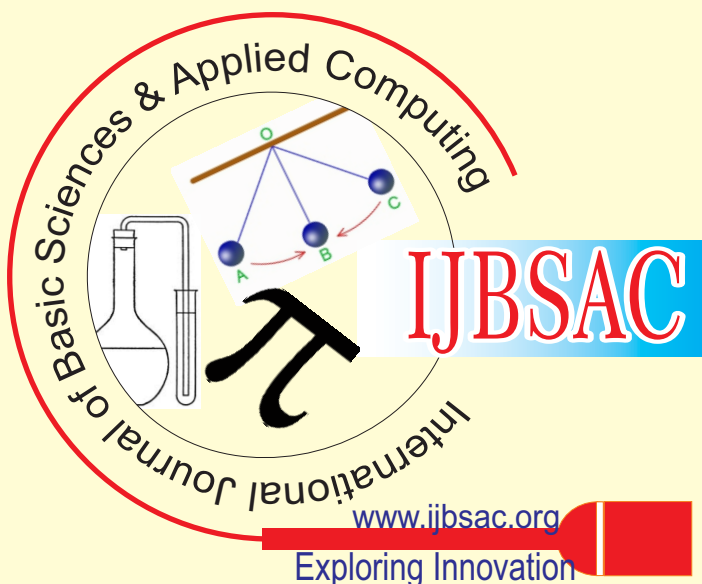
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	Authors:	Ashutosh Diwakar, Devendra Pandey	
	Paper Title:	Histological Sublethal Concentration Effect on the Liver of Clarias Batrachus (Linn.) Exposed To Malathion	
1.		<p>Abstract: Malathion is a vital agent and indicator that kills targeted (harmful) organic of flora and fauna. Word ‘pest’ has comprised of detrimental animals, plants and microorganisms. These are widely used all over the world in agriculture. several agricultural pesticides nowadays in the trend in which organisms toxicity and harmful alterations are noticeable. Malathion pesticides used as agricultural benefits for crop production. This type of pesticide mostly affects the histological and biochemical parameters of the organism. This study focuses on alterations of malathion observing special site tissues of freshwater fish <i>Clarias batrachus</i> (Linn.,1758). Malathion (50% EC) was ordered from super ford insecticides limited, Sikandrabad (BSR) and a volumetric practical performed to result out the LC50 96 hours of malathion. Value of malathion LC50 96 hours calculated 0.25 ppm. The SLC as 0.025 parts per million was fixed by using 1/10th of LC50 at 96 hours [1]. The effect of malathion SLC (1/10 of 96 hours of LC50) was investigated on the histology of the liver in treated groups of host fish. Specific changes were checked in liver histology using control and treated groups. Histological observations as hepatocytes degeneration, Necrosis in hepatocytes, vacuolar degeneration, congestion were recorded and analyses as per experimental requirement. The main objective of this article is to carry out a histological study to check the impacts of the Sublethal concentration of Malathion (EC50%) on the liver of “<i>Clarias batrachus</i>.”</p> <p>Keywords: Histological, Acute Toxicity, Liver, Freshwater fish, <i>Clarias Batrachus</i>, Malathion.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Yogesh. “Sublethal and Chronic Effect of Carbaryl and Malathion on <i>Clarias batrachus</i> (Linn.)”. J. Appl. Sci. Environ. Manage. Vol. 13(2), 2009, pp. 23-26. 2. Diwakar, A., Tripathi, R., Pandey, D. and Khatoon, R. “Toxic effect of malathion on <i>Clarias batrachus</i>”. JETIR, (online) Volume-6, Issue-6. ISSN- 2349-5162, 2019. 3. Sakakushi, H., Bull. Tap. Soc.Sci.Fish., 1972, 38: 555. 4. Dutta H. M., Nath A., Adhikari S., Roy P. K., Singh N. K. and Munshi J. S. D. “Sublethal Malathion induced changes in the ovary of an air-breathing fish, <i>Heteropneustes fossilis</i> a histological study”. Hydrobiologia, 1994, 294 (3): pp. 215-218. 5. Yu Zhang, Jiao An, Wei Ye, Guangyu Yang, Zhi-Gang Qian, Hai-Feng Chen, Li Cui, and Yan Feng (2012), “Enhancing the Promiscuous Phosphotriesterase Activity of a Thermostable Lactonase (GkaP) for the Efficient Degradation of Organophosphate Pesticides”, Applied and Environmental Microbiology, 78(18), 2012, pp. 6647–6655. 6. Mukesh K N. “The effect of pesticides on the fish fauna of Bhopal lower lake (M. P.). African Journal of Environmental Science and Technology”, 7(7), 2013, pp. 725-727. 7. Hinton D.E. and Lauren D.J., “Liver structural alterations accompanying chronic toxicity in fishes: potential biomarkers of exposure”. In: McCarthy, J.F. and Shugart L.R. (Eds.), Biomarkers of Environmental Contamination, Boca Raton, Lewis Publishers, 1993, pp. 51-65. 8. Naqvi, S. M.; Vaishnavi, C., “Bioaccumulative potential and toxicity of endosulfan insecticide to non-target animals”. Comp. Biochem. Phys. C, 105, 1993, pp. 347-361. 9. Mishra, R.; Shukla, S. P., “Endosulfan effects on muscle malate dehydrogenase of the freshwater catfish <i>Claria batrachus</i>”. Ecotox. Environ. Safe., 56, 2013, pp. 425-433. 10. Dalela R.C., Bhatnagar M.C., Tyagi A.K., & Verma S.R. “Histological damage of gills in <i>Channa gachua</i> after acute and subacute exposure to endosulfan and Rogor”. Mikroskopie (Vienna), 35: 1979, pp. 301-307. 11. Camargo M.M. and Martinez C.B. “Histopathology of gills, kidney, and liver of a Neotropical fish caged in an urban stream”, Neutro. Ichthyol., 5, 1972: pp. 327-336. 12. Devi Y. and Mishra A. “Histopathological alterations in gill and liver anatomy of freshwater, air-breathing fish <i>Channa punctatus</i> after pesticide Hilban® (chlorpyrifos) treatment”, Adv. Biores., 4(2), 2013, pp. 57-62. 	1-3
2.		<p>Authors: Nidhi Srivastava</p> <p>Paper Title: New Triterpenoid Glycosides from the Stem Bark of <i>Samanea Saman</i></p> <p>Abstract: From the stem bark of <i>Samanea saman</i> two new triterpenoid glycoside have been isolated and characterized as 3β, 22β – dihydroxyolean -12-ene-24-0-β-D-xylopyranoside 1 and 1β, 2α, 3β-trihydroxy-16β-0-acetylolean-12-ene-28-oic-0 [-β-D-arabinopyranosyl (1\rightarrow3)] -β-D-arabinopyranoside 2 by spectral and chemical studies.</p> <p>Keywords: <i>Samanea Saman</i>, Triterpenoid, Glycoside.</p> <p>References:</p> <ol style="list-style-type: none"> 1. James Duke, A, <i>Handbook of Energy Crop</i>, 1983. 2. CSIR (Council of Scientific and Industrial Research) <i>The Wealth of India</i>, New Delhi, 11, 1948-1976. 3. Duke, J.A. & Wain KK, <i>Medicinal Plants of the World</i>, 3, 1981. 4. Hartwell JL, <i>Plants used against Cancer</i>, A survey Lloydia, 30-34, 1967-1971. 5. Ayensu, ES, <i>Medicinal Plants of the West Indies</i>, Reference Publications, Inc., Algonac, MI, 1981, 282. 6. List PH and Horhamner L, <i>Hager's handbuchderpharmazeutischen praxis</i>, Springer, Verlag, Berlin, 2-6, 1969-1979. 7. Liebermann C, <i>Ber Deutsch Chem. Ges.</i>, 1885, 1804. 8. Takahashi K, Kawashi S, NishmuraKT, Kutota K, Tanabe Y and Takani M, <i>Chem Pharm Bull</i>, 22, 1974. 650. 9. Brieskorne CH and Briner B, <i>Pharm ActaHelv</i>, 28, 1953, 139. 10. Ruzicka L and Leibigs, <i>Ann Chem</i>, 25, 1929, 471. 11. Takahashi K, Tanka O and Shibata S, <i>Phytochemistry</i>, 8, 1969, 2345. 	4-7

	<p>12. Barton DHR and De Mayo P, <i>J ChemSoc.</i>,1954, 887. 13. Rogers OB and Subramony G, <i>Phytochemistry</i>, 27, 1988, 531. 14. Sanghi R, Tripathi K and Sharma JP, <i>Indian J Chem.</i>39B, 2000, 477. 15. Srivastava M and Singh J, <i>Int. J. Pharmacoy</i>, 32, 1994, 197. 16. Rai R, Gupta A, Chauhan D, Purwar C and Singh J, <i>Pharmaceutical Biology</i>, 39, 2001, 413. 17. Hariharam V and Rangaswami S, <i>Phytochemistry</i>, 9, 1970, 409.</p>	
3.	Authors:	Mamta Dassani, Mukesh Kushwaha
	Paper Title:	Generalization of Konhauser Polynomials
	<p>Abstract: In this paper, we are showing study of biorthogonal polynomials associated with generalization of Laguerre polynomials of Srivastava and Singhal [14]. It happens to generalized Konhauser. here we are trying to obtain the generating functions, recurrence relations, biorthogonality relations, integral representations and also bilinear and bilateral generating relations for the new class of biorthogonal system.</p> <p>Keywords: Biorthogonal polynomials, Laguerre polynomials, generalized Konhauser, generating functions, recurrence relations,</p> <p>References:</p> <ol style="list-style-type: none"> 1. Didon, M.F.: "Sur certain system des polynomials associes Annales Sci. de," Ecole Normale sup. Tome 6, 1869, pp.111-125. 2. Deruyts, J. Bearux.: "Suriun class de polynomials conjuges Memories couounes memories de savat Etrangers Academic Royal des Science des letter" et des 1-Art-de belgiques Tome, 48., 1886 3. Spencer, L. And Fanno, O., "Penetration an diffusion of X-rays calculation of Special distribution by polynomials expansion,"J. Res. Nat. Bur. Standards, 46, 1951, pp. 446-461. 4. Presiser, S. : "An investigation of the biorthogonal polynomials desirable from ordinary differential equation of the third order," J. Math. Anal. Appl. Vol. 4, 1962, PP. 38-64. 5. Konhauser, J.D.E.: "Biorthogonal polynomials suggested by the Laguerre polynomials", Pacific, J. Math. 21, 1967, pp. 303-314. 6. Carlitz, L.: "A note on certain biorthogonal polynomials", Pacific , J. Math. 24, 1968 .pp. 425-430. 7. Prabhakar, T.R. and Kashyap, N.K., "Generating functions for the biorthogonal polynomials suggested by Special Jacobi Polynomials," J. Math. Sci. 14/15, 1979, pp. 21-26. 8. Rahman, M., "A non negative representation of the unearization coefficient of the product of Jacobi polynomials," Can. J. Math. 33, 1981, pp.915-928. 9. Prabhakar, T.R. and Tomer, R.C., "Biorthogonal polynomials suggested by the Legendre polynomials," J. Indian Math. Soc. (N.S.) 43, 1979, pp. 285-297. 10. Madhekar, H.C., and Thakre, N.K., "Biorthogonal polynomials suggested by the Jacobi polynomials", Pacific, J. Math. 100, 1982, pp. 417-424. 11. Al. Salam, W.A. and Verma, A.: "q-Analogues of some biorthogonal function", Canad. Math. Bull. 26, 1993, pp. 225-227. 12. Chandel, R.C.S.: "Generalized Laguerre polynomials and The polynomials related to them", Ind. Jour. Maths. Vol. II, 2, 1969, PP. 57-66. 13. Osler, T.J., "The fractional derivative of a composite Function", STAM, J. Math. Anal., 1970, pp.288-293. 14. Srivastava, H.M. and Singhal, J.P., "A class of polynomials defined by generalized Rodrigues' formula," Ann. Mat. Pura. Appl. (4), 4(90), 1971 pp. 75-85 15. Srivastava, H.M., "On the Konhauser sets of polynomials suggested by the Laguerre polynomials," Pacific, J. Math. 49, 1973, pp.489-492. 16. Srivastava, P.N., "Classical polynomials a unified Presentation pub," inst. Math. (Beograd) (N.S.), 23(37), 1978, pp.169-177. 	
4.	Authors:	Ya. Rakhimov, Z. Abduqakhhorov, Sh. Imomkulov
	Paper Title:	Influence Solubility Carbide to form Element on Mechanical Characteristic Doped Steel
	<p>Abstract: The Problem of increasing to wear capability and longevity material worker mechanism agricultural machines is actual Defining importance in shaping the features to constructive toughness material worker mechanism agricultural machines has, as is well known, variation of the structured condition. Defining importance in shaping the features to constructive toughness material worker mechanism agricultural machines has, as is well known, variation of the structured condition. For this purpose article is studied structured conversions become under different type of the thermal processing, which vastly affect the specified characteristic.</p> <p>Keywords: Toughness, Wear Capability, Toughness, Limit To Fluidity, Striking Viscosity, Longevity, Defects Crystalline Lattices, Density Dislocation, Grain.</p> <p>References:</p> <ol style="list-style-type: none"> 1. T. M. Pugacheva, B. F. Trakhtenberg. Improving the structural strength of tool steels by the method of multiple heat treatment. Materials science and technology conference. Tashkent, 1990, p. eight. 2. A.A. Mukhamedov. Investigation of properties after recrystallization of steel. Mitom 1972. No. 12. p. 14-20. 3. N.N. Lipchin, S.A. Kokovyakina, V.N. Shubin. Features of recrystallization alloy 3I437B. Higher education institutions. Ferrous metallurgy. 1966. No. 8.p. 152-156. 4. Ya. Rakhimov, Z. Abduqakhhorov, Surface diffusion and its influence on the properties of working surfaces of machine parts. Materials International Scientific and Practical Internet Conference Astrakhan 29 February 2016 5. Ya. Rakhimov, Z. Abduqakhhorov, K. Ya. Tashpulatov. The influence of carbide-forming elements on the structure and properties of steel. Sustainable development of science and education. Russia, Voronezh, №8, 2017 	