

DAFTAR PUSTAKA

- Abdel Ghany, NT and El-Chaghaby, GA. 2014. Biosorption for metal ions removal from aqueous solutions : A review of recent studies. *International Journal of Latest Research in Science and Technology*. 3 (1) : 24-42
- Abdel Moneim, WM. Ghafeer, HH. 2007. The Potential Protetive Effect of natural Honey Against Cadmium-Induced Hepaotoxicity and Nephrotoxicity. *Mansoura.J.Forensic Med.Clin. Toxicol*. XV (2) : 75-98
- Adelaja, OA. Amoo, IA. Aderibigbe, AD. 2011. Biosorption of Lead (II) ions from aqueous solution using *Moringa oleifera* pods. *Archives of Applied Science Research*. 3 (6) : 50-60
- Agency for Toxic Substances and Disease Registry Case Studies in Environmental Medicine (CSEM). 2008. Cadmium Toxicity. Available at <http://www.atsdr.cdc.gov/csem/kadmium/docs/kadmium.pdf> [Accessed 25 Februari 2015]
- Amegrissi, F. Maghri, I, Elkouali, M. Kenz, A. Salouhi, M and Talbi, M. 2013. Heavy Metal Uptake by Agro based Waste Materials. *Global Journal of Science Frontier Research Environment & Earth Science*.13 (4) : 1-6
- Antolovich, M.Prenzler, PD. Patsilades, E. McDonald, S.Robards, K. 2002. Methods for Testing Antioxidant Activity. *Analyst* 127:183-198.
- Anzeze, DA. Onyari, JM, Shiundu, PM. Gichuki, JW. 2014. Equilibrium and Kinetics studies for biosorption of aqueous Cd(II) ions onto *Eicchornia crasippes* biomass. *IOSR Journal of Applied Chemistry*. 7 (1) : 29-37
- Aslam, M. Ahmad, ST. Dayal, R. Javid, K. Umar,S. Asiaf, A. Nafees, S. Bhat, JU. Wani, A. Samim, M. Singh. S. 2012. Nephroprotective action of *Peucedanum grande* against cadmium chloride induced renal toxicity in wistar rats. *EXCLI Journal*. 11 : 444-452
- Awwad,AM dan Salem, NM. 2011. Kinetics and thermodynamics of Cd(II) biosorption onto loquat (*Eriobotrya japonica*) leaves. *Journal of Saudi Chemical Society*. 18 : 486-493
- Bernard, A. 2008.Cadmium and Its Adverse Effects on Human Health.*Indian J Med Res* 128:557-564.
- Bernhoft, R. A., 2013. Review Article: Cadmium Toxicity and Treatment. *The Scientific World Journal* Article ID 394652.
- Bhalerao, SA. Poojari, AC. Maind, SD. 2015. Biosorption studies of cadmium (II) ions from aqueous solutions onto orange rind (*Citrus sinensis L Osbeck*). *Octa Journal of Environmental Research*. 3 (1) : 028-040

- Biolab Medical Unit. 2010. Cadmium. Available at www.biolab.co.uk [Accessed 8 Maret 2015]
- Brzoska, M M. Jakoniuk, JM. Marcinkiewicz, BP. Sawicki, B. 2003. Liver and Kidney Function and Histology In Rats Exposed to Cadmium and Ethanol. *Alcohol & Alcoholism* 38 (1):2-10.
- Bu, T. Mi, Y. Zeng, W. Zhan, C. 2011. Protective Effect of Quercetin on Cadmium, Induced Oxidative Toxicity on Germ Cells in Male Mice. *The Anatomical Record*. 294 : 529-526
- Chaidir, Z. Jesica, S. Zein, R. Munaf, E. 2015. Biosorption of cadmium (II) ion from aqueous solution using living cell and non living cell microalga *Scenedesmus dimorphus*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 6 (2) : 1972-1980
- Chakraborty, S. Dutta, AR. Sural, S. Gupta, D. Sen, S. 2013. Ailing Bones and Failing Kidneys: A Case of Chronic Cadmium Toxicity. *Annals of Clinical Biochemistry* 50(5): 492-295.
- Deevika, B. Asha, S. Taju, G. Nalini, T. 2012. Cadmium acetate induced nephrotoxicity and protective role of curcumin in rats. *Asian Journal of Pharmaceutical and Clinical Research*. 5 (3) :186-188
- El Hassouni, H. Abdellaoui, D. Hani, EL. Bengueddour, R. 2014. Biosorption of cadmium (II) and copper (II) from aqueous solution using red alga (*Osmundea pinnatifida*) biomass. *J.Mater. Environ. Sci.* 5 (4) : 967-974
- El-Refaiy, A. I. 2013. Histopathology and Cytotoxicity as Biomarkers In Treated Rats With Cadmium and Some Therapeutic Agents. *Saudi Journal of Biological Sciences* 20: 265-280.
- El Sayed, GO. Dessouki, HA. Ibrahim, SS. 2010. Biosorption of Ni (II) and Cd(II) ions from aqueous solutions into rice straw. *Chemical Sciences Journal*. 2010 : 1-11
- Embugushiki, Elisha, R. Gabriel, MS. Zebulon, O. 2013. Protective effect of carrot juice pre treatment on cadmium induced cytotoxic damage to some rat tissues. *IOSR Journal of Pharmacy and Biological Sciences*. 7 (6) : 55-62
- Emmanuel OA and Oyetunjit, K. 2013. Biochemical, Haematological and Histopathological Assessment of Toxic Effects of *Mannihot esculenta* Crants Lead Aqueous Extract in Rats. *Int J Pharm Bio Sci* 4(3): 228-235.
- European Food Safety Authority. 2009. Scientific Opinion: Cadmium in Food. *The EFSA Journal* 980: 1-139.

- Fahim, MA, Nemmar, A, Dhanasekaran, S, Singh, S, Shafiullah, M, Yasin, J/ Zia, S, Hasan, MY. 2012. Acute Cadmium Exposure Causes Systemic and Thromboembolic Events in Mice. *Physiol. Res.* 61: 73-80
- Fazal, A and Rafique, U. 2012. Biosorption of cadmium on spent tea: Green chemistry approach. *Journal of Water Sustainability.* 2 (4) : 259-270
- Feng, N, Guo, X, Liang, S, Zhu, Y, Liu, J. 2011. Biosorption of heavy metals from aqueous solution by chemically modified orange peel. *Journal of Hazardous Materials.* 185 : 49-54
- Flora, S. J. S., 2009. Structural, Chemical and Biological Aspects of Antioxidants for Strategies Against Metal and Metalloid Exposure. *Oxidative Medicine and Cellular Longevity* 2(4): 191-206.
- Franco, D., 2008. Polyphenols from Plant materials: Extraction and Antioxidant Power. *EJEAFChe* 7(8): 3210-3216.
- Garcia-Salas, P, Morales, SA, Sequra, CA, Fernandez, GA. 2010. Phenolic-Compound-Extraction Systems for Fruit and Vegetable Samples. *Molecules* 15: 8813-8826.
- Gramza-Michalowska, A, Abramowski, Z, Jovel, E, Hes, M. 2008. Antioxidant Potential of Herbs Extracts and Impact on HEPG2 Cells Viability. *Acta Sci. Pol., Technol. Aliment* 7(4): 61-72.
- Jahangir, Y, Khan, TH, Prasad, L, Sultana, S. 2005. Alleviation of free radical mediated oxidative and genotoxic effects of cadmium by farnesol in Swiss albino mice. *Redox Rep.* 10 (6) : 303-310
- James, K.A., 2013. Environmental Cadmium Exposure and Osteoporosis: A Review. *Int J Public Health.*
- Jarup, L, Hellstrom, L, Alfven, T, Carlsson, M, Grubb, A, Persson, B, Pettersson, C, Spang, G, Schutz, A, Elinder, C. 2000. Low Level Exposure to Cadmium and Early Kidney Damage: *The OSCAR Study. Occup. Environ. Med.* 57: 668-672.
- Keil, D. E., 2011. Testing for Toxic Elements: A Focus on Arsenic, Cadmium, Lead, and Mercury. *Labmedicine* 42(12): 735-742.
- Krajcovicova-Kudlackova, M., 2006. Cadmium Blood Concentrations in Relation to Nutrition. *Cent Eur J Publ health* 2006 14(3): 126-129.
- Krishnaiah, D Sarbatly, R, Bono, A . 2007. Phytochemical Antioxidants for Health and Medicine – A Move Towards Nature. *Biotechnology and Molecular Biology Review.* 1(4): 097-104.
- Laghari, AQ, Memon, S, Nelofar, A, Laghari, AH. 2011. Extraction, Identification and Antioxidative Properties of the Flavonoid-Rich

Fractions from Leaves and Flowers of *Cassia angustifolia*. *Americal Journal of Analytical Chemistry* 2: 8871-878.

- Lakshmi, GD. Kumar, PR. Bharavi, K. Annapurnak, P. Rajendar, B. Patel, PT. Kumar, CSVS. Rao, GS. 2012. Protective effect of *Tribulus terrestris* linn on liver and kidney in cadmium intoxicated rats. *Indian Journal of Experimental Biology*. 50 : 141-146
- Liu, J., 2008. Cadmium Generates Reactive-Oxygen- and Carbon-Centered Radical Species in Rats: 3 Insights from In Vivo Spin-Trapping Studies. *Free Radic Biol Med* 45(4): 475-481.
- Miura, N., 2009. Individual Susceptibility to Cadmium Toxicity and Metallothionein Gene Polymorphisms: with References to Current Status of Occupational Cadmium Exposure. *Industrial Health* 47: 487-494.
- Moein, S Farzami, B. Khaghani, S. Moein, MR. Larijani, B. 2007. Antioxidant Properties and Prevention of Cell Cytotoxicity of *Phlomis persica* Boiss. *DARU* 15(2): 83-88.
- Munaf, E. Hayuni, F. Zein, R and Suyani, H. 2014. The use of Snake Fruit (*Salacca sumatrana*) Seeds Powder for the Removal of Cd(II), Cu(II) and Zn(II) ions from Environmental Water. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 5(2):1535-1543
- Nagy, B. Tonks, S. Indolean, C. Maicaneanu, A. Majdik, C. 2013. Biosorption of Cadmium Ions by Unmodified Microwave and Ultrasound Modified Brewery and Pure Strain Yeast Biomass. *American Journal of Analytical Chemistry*. 4 : 63-71
- Nasution, AN. Amrina, Y. Zein, R. Aziz, H. Munaf.E. 2015. Biosorption characteristics of Cd(II) ions using herbal plant of mahkota dewa (*Phaleria macrocarpa*). *Journal of Chemical and Pharmaceutical Research*. 7(&) : 189-196
- Nordic Council of Ministers. 2003. Cadmium Review. Available at http://www.who.int/ifcs/documents/forums/forum5/nmr_kadmium.pdf [Accessed 20 Februari 2015]
- Nazaruddin, N. Zein, R. Munaf,E and Jin, J. 2014. Biosorption of Copper (II), Lead (II), Cadmium (II) and Zinc (II) ions from aqueous solution by *Nypa fruticans* Merr Shell on batch method. *Journal of Chemical and Pharmaceutical Research*. 6 (12): 370-376
- Ojo, OA. Ajiboye, BO. Oyinloye, BE. Ojo, AB. Olarewaju, OI. 2014. Protective effect of *Irvingia gabonensis* stem bark ekstrak n cadmium induced nephrotoxicity in rats. *Interdiscip Toxicol*. 7 (4) : 208-214
- Petti, S. Scully, C. 2009. Polyphenols, Oral Health and Disease: A Review. *Journal of Dentistry*. 37: 413-423.

- Rathod, SV. Pansare, H. Bhalerao, SA. Maind, SD. 2014. Adsorption and Desorption Studies of Cadmium (II) ions from aqueous solutions onto Turpod (*Cajanus cajan*). *International Journal of Advanced Chemical Research*. 4 (5) : 30-38
- Nair, AR. Degheselle, O. Smeets, K. Van, KE. Cuypers, A. 2013. Cadmium-Induced Pathologies: Where Is the Oxidative Balance Lost (or Not)? *Int. J. Mol. Sci* 14: 6116-6143.
- Saad, R., 2014. Phytochemical Screening and Antibacterial Activity of Five Malaysian Medicinal Plants. *British Journal of Pharmaceutical Research* 4(17): 2019-2032.
- Sajeesh, T. Arunachalam, K. Parimelazhagan, T. 2011. Antioxidant and antipyretic studies on *Photos scandens* L. *Asian Pacific Journal of Tropical Medicine*. 889-899
- Satarug, S., 2009. Cadmium, Environmental Exposure and Health Outcomes. Available at <http://dx.doi.org/> [Accessed 2 Maret 2015]
- Serencam H. Ozdes, D. Duran, C. Tufekcim M. 2012. Biosorption properties of *Morus alba* L, for Cd(II) ions removal from aqueous solutions. *Environ Monit Assess*.185 (7) : 6003-6011
- Selatnia, A. Boukazola, A. Kechid, N. Bakhti, MZ. Chergui, A. Kerchich, Y. 2004. Biosorption of lead (II) from aqueous solution by a bacterial dead *Streptomyces rimosus* biomass. *Biochemical Engineering Journal*. 19 : 127-135
- Sulaiman, MS. 2015. Factor affecting biosorption of Cu (II) ions from industrial wastewater. *Applied Research Journal*. 1 (5) : 311-315
- Suresh, Ch. Reddy, DHK. Harinath. Y. Naik, BR. Seshaiyah, K. Reddy, AVR. 2014. Development of Wood Apple Shell (*Feronima acidissima*) Powder Biosorbent and Its Application for the Removal of Cd(II) from Aqueous Solution. *The Scientific World Journal*. 1-8
- Swiatek, MZ and Krzywonos, M. 2014. Potential of Biosorption and Bioaccumulation Processes for Heavy Metal Removal. *Pol.J Environ. Stud*. 23 (2) : 551-561
- Tarasub, N. Tarasub, C. Na Ayutthaya, WD. 2011. Protective role of curcumin on cadmium-induced nephrotoxicity in rats. *Journal of Environmental Chemistry and Ecotoxicology*. 3 (2) : 17-24
- The University of Sassari. 2012. Cadmium Symposium. Available at <http://www.cadmiumsymposium2012.uniss.it/Kadmium%20Symposium%202012%20Abstract%20Book.pdf> [Accessed 25 Februari 2015]

- Toman, R., 2011. Quantitative Analysis of the Rat Testes after an Acute Cadmium and Diazinon Administration. *Animal Science and Biotechnologies* 44(2): 188-191.
- Tsao, R., 2010. Chemistry and Biochemistry of Dietary Polyphenols. *Nutrients* 2: 1231-1246.
- Tsumbu, CN. Dupont, GD. Tits M. Angenot, L. Franck, T. Serteyn, D. Mickalad, AM. 2011. Antioxidant and Antiradical Activities of Manihot esculenta Crants (Euphorbiaceae) Leaves and Other Selected Tropical Green Vegetables Investigated on Lipoperoxidation and Phorbol-12-myristate-13-acetate (PMA) Activated Monocytes. *Nutrients*. 3:818-838.
- United Nations Environment Programme. 2010. Final Review of Scientific Information on Cadmium. Available from http://www.unep.org/chemicalsandwaste/Portals/9/Lead_Kadmium/docs/Interim_reviews/UNEP_GC26_INF_11_Add_2_Final_UNEP_Kadmium_review_and_appendix_Dec_2010.pdf [Accessed 25 Februari 2015]
- Unites States Department of Agriculture Natural Resources Conservation Service. 2003. Plant Guide: Manihot esculenta Crantz. Available from <http://plants.usda.gov/core/profile?symbol=maes> [Accessed 5 Maret 2015]
- Varma, DSNR. Srinivas, Ch. Nagamani, Ch. Premsagar, T. Rajshekar, M. 2010. Studies on biosorpstion of Cadmium on *Psidium guajava* leaves powder using statistical experimental design. *J. Chem. Pharm. Res.* 2 (5) : 29-44
- Vimala, R and Das, N. 2011. Mechanism of Cd(II) adsorption macrofungus *Pleurotus platypus*. *Journal of Environmental Sciences*. 23 (2) : 288-293
- Waalkes, M. P., 2003. Cadmium Carcinogenesis. *Mutation Research* 533:107-120.
- Wahyuni, D. Furqani, F. Astuti, AW. Indrawati, Zein, R and Munaf, E. 2014. Removal of Cadmium (II) and Copper (II) from Aqueous Solution by Using Langsung Fruit (*Lansium domesticum* Corr) Seed. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 5(5) : 1320-1329
- World Health Organization. 2010. Exposure to Cadmium: A Major Public Health Concern. Available from <http://www.who.int/ipcs/features/kadmium.pdf> [Accessed 25 Februari 2015]
- Young, I S. Woodside, JV. 2001. Antioxidants in Health and Disease. *J Clin Pathol* 2001. 54: 176-186.
- Zhai, Q. Wang, G. Zhao, J. Liu, X. Tian, F. Zhang, H. Chen, W. 2013. Protective effects of *Lactobacillus plantarum* CCFM8610 against Acute Cadmium Toxicity in Mice. *Applied and Environmental Microbiology*. 79 (5) :1508-1515