The Turkish Journal of Occupational / Environmental Medicine and Safety
Vol:1, Issue Supplement 1 Web: http://www.turjoem.com ISSN : 2149-4711 Poster Presentation

P78. DETERMINATION OF GENE EXPRESSION LEVELS IN CADMIUM CARCINOGENESIS

Serap YALÇIN*
Faculty of Engineering and Architecture, Ahi Evran University, Kırsehir, TÜRKİYE
* syalcin@ahievran.edu.tr; serapyalcin1982@gmail.com

Cadmium (Cd) is toxic and carcinogenic metalassociated with many diseases. However, the detailed cancer mechanism remains unclear. Researchers have studied to determine gene expression levels in cancer pathway using cancer cells and animal models. The available evidence indicates that Cd changes gene expression levels of metallothioneins, enzymes of glutathione synthesis, heat shock (stress) proteins, zinc transporter proteins, c-fos, c-jun, c-myc, egr-1 etc. Therefore, a possible relationship between gene expression and cadmium may explain for human health risk in further studies.