Geetanjali Sageena Keshav Mahavidyalaya, J Bacteriol Parasitol 2021, Volume 12

Role of environmental factors in human health: An overview

Geetanjali Sageena Keshav Mahavidyalaya
University of Delhi, India

Due to heavy pollution environmental ecosystem has been imbalanced by harmful gases, particulate matter, and smog affecting the life around in numerous ways. There are many constituents present causing the harmful effect on living organisms especially, human beings. The lung being a vital organ involved in respiration, is most vulnerable to airborne infections and injury. Implications of several pathogenic microorganisms have been reported in the development of respiratory disease however the role of environmental factors in the initiation and progress of diseases can never be underestimated. Major dreadful respiratory diseases caused by environmental factors involve chronic obstructive pulmonary disease (COPD), asthma, acute lower respiratory tract infection, tuberculosis, lung cancer, SARS Covid-19. The causes of these diseases involve the air quality in terms of microbes, toxic particles, fumes, and allergens.

The purpose of the present study was to ascertain the behavioral response towards chemo stimulants i.e. heavy metals induced stress, acting in different stages of life in phenotypically small (selected) and large (control) populations of *Drosophila melanogaster.* The optimum chemo stimulant concentrations chosen were 13mM and 5 µM for two heavy metals $FeSO_4$ (essential) and $CdCl_2$ (non-essential). Interestingly the interaction of organism with changing environmental condition had a significant impact on the behavior.

Biography

Geetanjali Sageena Keshav Mahavidyalaya is an Assistant Professor in Department of Environmental Studies in Keshav Mahavidyalaya at University of Delhi, India. Her research interests are focused on Human Health, Sustainability, Environmental Changes, Behaviors and other related aspects.