
WAN-CHEN LEE, Health Canada

Statistical Strategies for Evaluating the Exposure of Chemical Mixtures during Pregnancy

Scientists have discovered exposures to industrial chemicals occurring early in life, either in the womb or during early stages of childhood development, could result in a mild alteration, like how the brain develops resulting in changes in attention span, learning ability, behavioural changes, or other impacts like altering where fat cells are deposited in the body or modifying the development of an organ predisposing it to cancer later in life. We develop statistical criteria to evaluate the exposure of chemical mixtures during pregnancy, which are used in risk assessment of chemicals such as mercury, lead, phthalates and persistent organic pollutants.