

World Congress on **ENDOCRINE AND DIABETES**

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Does xenobiotics (ops: mps) target farmers: A portrait story behind?**S. Ramasamy***Cardiac metabolic Disease Laboratory, India*

Metabolic diseases induced by occupational and accidental exposure to xenobiotics are a thriving hidden cause behind disease progression. Agrochemicals are more easily exposable pollutants among other xenobiotics. Organophosphates (OP) are the primarily used insecticides worldwide by which most human population are exposed directly or indirectly via food, water, and air. Our study concludes that degradation of OP by gut microbiota induced hyperglycemia by gluconeogenesis. It is the first report to unwind the relationship between the plasma OP residues and fecal acetate levels, primarily associated with diabetic status among the rural agricultural population in south India (n=3080). An extended self-reported survey study was conducted to unravel the association between occupational exposure to agrochemicals and diabetic prevalence among 0.1 million rural south Indian farming population (n=1, 06,111 people). The study powerfully portrays the association of agrochemical exposure with the prevalence of diabetes and associated cardiovascular risk factors. Thus the result recommended reconsidering the regulations on the usage of agrochemicals.

Biography

He is a professor in the prestigious Department of Biochemistry, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamil Nadu, India. He completed his Ph.D. at the Department of Molecular Biology, Madurai Kamaraj University, and was well trained during his three Post-Doctoral research at the University of Temple, Philadelphia and the University of Alabama at Birmingham, USA. He also won India government's UGC- RAMAN Post- Doctoral Research award for doing research aboard. He joined Madurai Kamaraj University as A tenure track faculty in 2010 and has published more than 38 papers and 3 book chapters in reputed journals with high impact factors. He was been an active speaker, delegate, guest and resource person at 44 national and international conferences till date. He invited as honorary speaker to USA, Sweden, Germany, Canada and Italy universities. More House School of Medicine Atlanta GA, USA.