## QSAR STUDY ON TOXICITY OF INSECTICIDES : A MOLECULAR CONNECTIVITY APPROACH

## SANJAY KARMARKAR<sup>1</sup>, VIJAY K. AGRAWAL<sup>1</sup> AND PADMAKAR V. KHADIKAR<sup>2\*</sup>

Toxicities of a series of insecticides were modelled using molecular connectivity indices  $(^0\chi, \ ^1\chi, \ ^2\chi)$ . The results have shown that  $^0\chi$  is appropriate for this purpose. The multiple regression analysis has shown that a bi-parametric model containing  $^o\chi$  and  $^1\chi$  is the best model for modelling toxicity.