

24th Global Organic & Inorganic Chemistry Conference

July 18-19, 2018 | Atlanta, USA

Isolation, identification and field studies on tiger pheromones

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Pheromones, although well-known in the insect world, not much work has been done in the case of mammals. The aim of present study was to isolate, identify the Tiger Pheromones. In order to do the field studies, especially in using this as a Biochemical Marker by Tiger in territory marking and communication especially during mating season, the studies were carried out in the forest. For the study, tiger urine was collected from different zoos in a month of January, March, July, and September to cover most of the seasons of the year. For separation of components of Tiger Urine for study purpose, MERCK HPTLC and Preparative Layer Chromatographic techniques were used and so also electrophoretic run on Whatman's paper. To confirm functional groups of components separated, IR Spectrum was used.

Biography

Mahesh N Sanzgiri MSc, PhD in organic chemistry from Bombay University in 1984 under the guidance of Professor V. V. Nadkarny of St. Xavier's College, Mumbai. His research is dedicated to "study of few derivatives of anthrones and pheromones". His research work for application of derivatives of anthrone in anti-cancer & anti aids activity is a new approach with synthesizing organic compounds using functional groups for trapping active cancer cells & removing aids activity. His work on isolating & synthesizing Tiger pheromones from Tiger urine and preparing the same molecule in a lab synthetically by using a chemical method. Its application is in Wild Perfumes. With wide experience in working with multinational German Chemical & Pharma co. Merck in India for many years on responsible position, presently Dr Mahesh N Sanzgiri works as a freelance scientist and consultant for doing research and development, also a consultant for cGMP, WHO, USFDA, ISO etc. with various well-known Indian and multinational Indian and foreign companies.

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