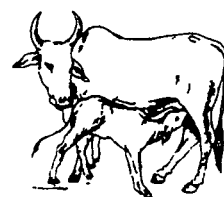




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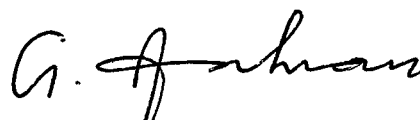
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### CERTIFICATE

This is to certify that this thesis entitled “**Identification and bioassay of mouse (*Mus musculus*) urinary pheromones with special reference to estrous cycle**” submitted by **Mr. S. Achiraman**, for the award of the degree of Doctor of Philosophy to Bharathidasan University is based on the results of studies carried out by the candidate under my supervision and guidance. This thesis or any part thereof has not been submitted elsewhere for any other degree.

Place: Tiruchirappalli.

Date: 7. 11. 02

  
(G. ARCHUNAN)