



August 04, 2008

CERTIFICATE

This is to certify that the thesis entitled “**Development of microsatellite markers and AFLP analysis for genotyping the cultivars of black pepper (*Piper nigrum* L.)**” submitted by **Nisha Joy** in fulfillment for the Degree of Doctor of Philosophy of the University of Kerala is an authentic report of the research work carried out by her under my supervision and guidance and that no part thereof has been presented for any other degree or diploma.

E. V. Soniya

(Research Supervisor)



August 04, 2008

CERTIFICATE

This is to certify that Ms. Nisha Joy carried out the research work embodied in this thesis under the supervision and guidance of Dr. E. V. Soniya for the full period prescribed under the Ph.D ordinance of this University. I recommend her thesis entitled “**Development of microsatellite markers and AFLP analysis for genotyping the cultivars of black pepper (*Piper Nigrum* L.)**”, for submission for the degree of Doctor of Philosophy in Biotechnology of the University of Kerala.

Head of the Institution

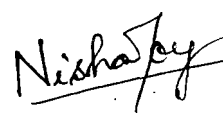
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August 04, 2008

DECLARATION

I hereby declare that the work presented in this thesis titled “**Development of microsatellite markers and AFLP analysis for genotyping the cultivars of black pepper (*Piper nigrum* L.)**” has been carried out by me under the supervision of **Dr. E. V. Soniya** and that this work has not been submitted for a degree or diploma in this or any other university before to the best of my knowledge.

A handwritten signature in black ink that reads "Nisha Joy". The signature is written in a cursive style with a horizontal line underlining the name.

Nisha Joy
(Candidate)