

19/06/2019

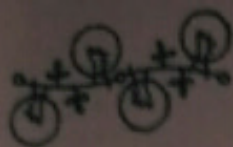
CERTIFICATE

This is to certify that the thesis entitled "Isolation, identification and molecular characterization of keratin degrading bacteria from soil" is a bonafide record submitted by Ms. ARYA P, Department of Microbiology, EMEA Arts and Science College, Kondotty, for the award of degree of Master of Science in Microbiology is a work done by her during the period of study, under my direct supervision and guidance in our centre and that it has not previously formed the basis for the award of any degree or diploma or associate or fellowship or other similar title.



A handwritten signature in blue ink, appearing to read "Siljo".

Siljo Abraham Ph. D
(Supervising Guide)



CERTIFICATE

This is to certify that dissertation work entitled "**Isolation and characterization of probiotic organism from the gut of honey bee (*Apis cerana indica*) and screen its antimicrobial compatibility against selected enteric microorganisms**" submitted for the course requirement of M.Sc. degree in Microbiology from EMEA College of Arts and Science, Kondotty, Malappuram, affiliated to the University of Calicut, embodies the work carried out by Nita Naurin under my guidance and supervision at Community Agrobiodiversity Centre of M.S.Swaminathan Research Foundation, Wayanad.

I, further certify that the dissertation work has been carried out by the candidate and the dissertation or part of it has not previously been formed the basis for the award of any degree or diploma.

IQAC EMEA-2019

Place: Puthoorvayal

Date: 20.06.2019

Joseph John

Scientist

20/06/2019

CERTIFICATE

This is to certify that the thesis entitled "**Isolation and molecular characterization of potassium solubilizing biofilm forming bacteria on the surface of *Trichoderma harzianum***" is a bonafide record submitted by **Ms. REZNA MOL T**, Department of Microbiology, **EMEA Arts and Science College, Kodotty** for the award of degree of **Master of Science in Microbiology** is a work done by her during the period of study, under my direct supervision and guidance in our centre and that it has not previously formed the basis for the award of any degree or diploma or associate or fellowship or other similar title.



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Siljo Abraham Ph. D
(Supervising Guide)

20/06/2019

CERTIFICATE

This is to certify that the thesis entitled “**Isolation and screening of siderophore producing bacteria for the development of an active biocontrol product**” is a bonafide record submitted by **Ms. THASNI NP**, Department of Microbiology, **EMEA Arts and Science College, Kondotty** for the award of degree of **Master of Science in Microbiology** is a work done by her during the period of study, under my direct supervision and guidance in our centre and that it has not previously formed the basis for the award of any degree or diploma or associate or fellowship or other similar title.



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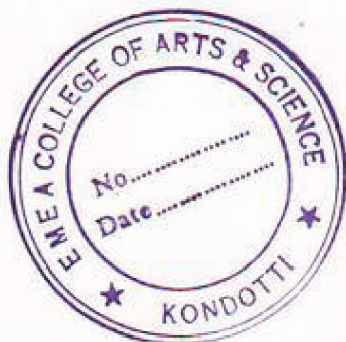
20/06/2019


CERTIFICATE

This is to certify that the thesis entitled “**Development of a potential probiotic consortium on the basis of different biochemical properties**” is a bonafide record submitted by **Ms. NAFIYA CP**, Department of Microbiology, **EMEA Arts and Science College, Kondotty** for the award of degree of **Master of Science in Microbiology** is a work done by her during the period of study, under my direct supervision and guidance in our centre and that it has not previously formed the basis for the award of any degree or diploma or associate or fellowship or other similar title.




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