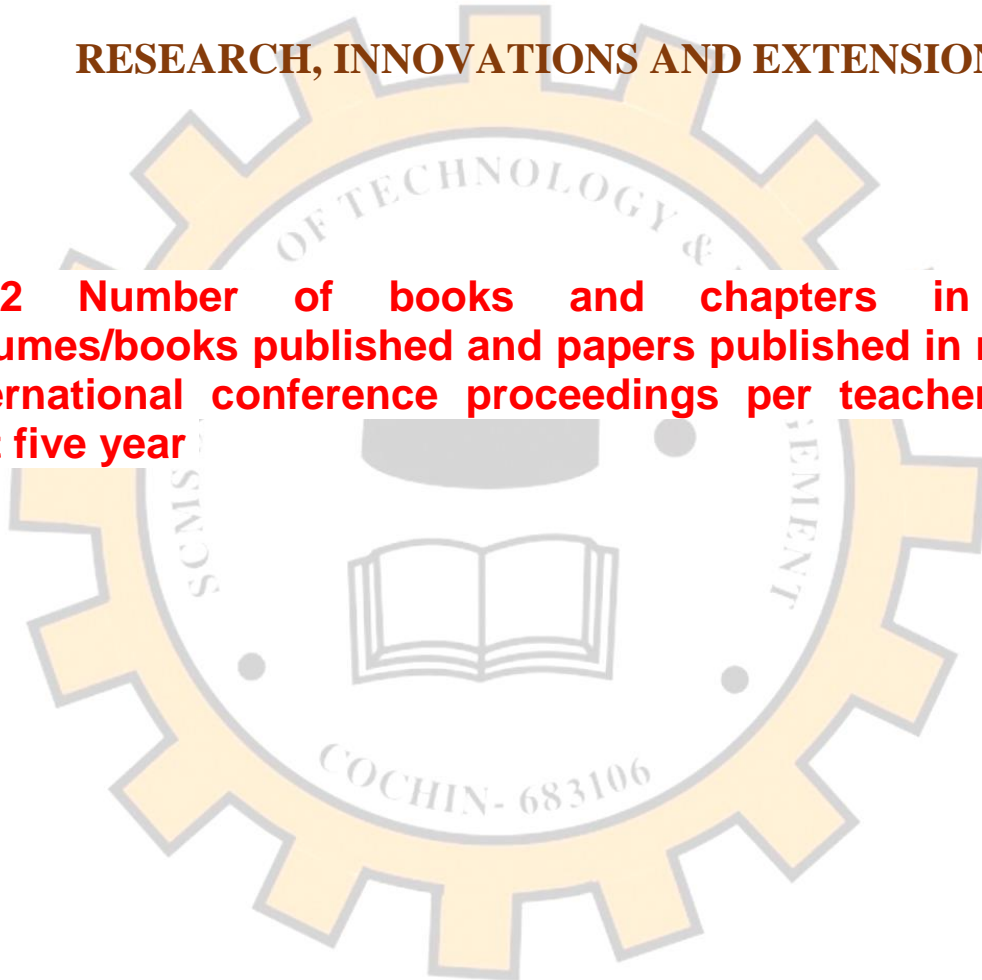




CRITERIA 3

RESEARCH, INNOVATIONS AND EXTENSION

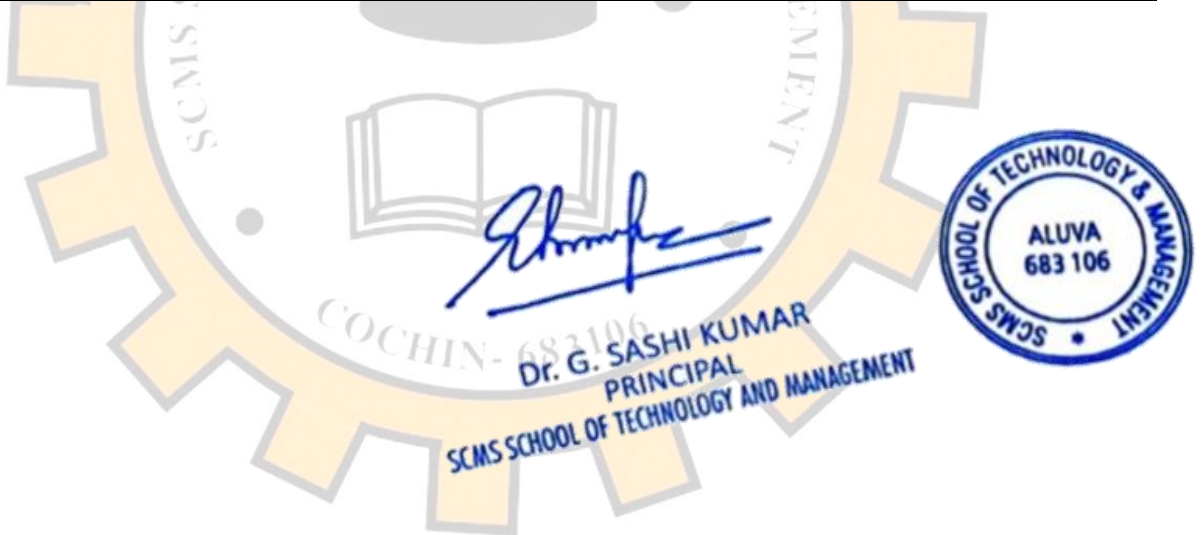
3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five year



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2018-2019

Sl. No.	Title of the book/chapters published	Name of the teacher
1.	Expression of TGF beta 1gene in Human Embryonic Kidney (HEK) 293 cell lines by the effect of HALE	Divyaa Sreekumar
2.	Quality of Management Education and its Impact on Skill development: A study of Alumni of Management Institutes in Kerala State	George Mathew
3.	SUSTANANCE OF LARGE OUT REACH	R Rupa
4.	digital payement in India	R Rupa
5.	Are our elder digitally literate? Astudy to understand the internet usage of elders	Praveen K

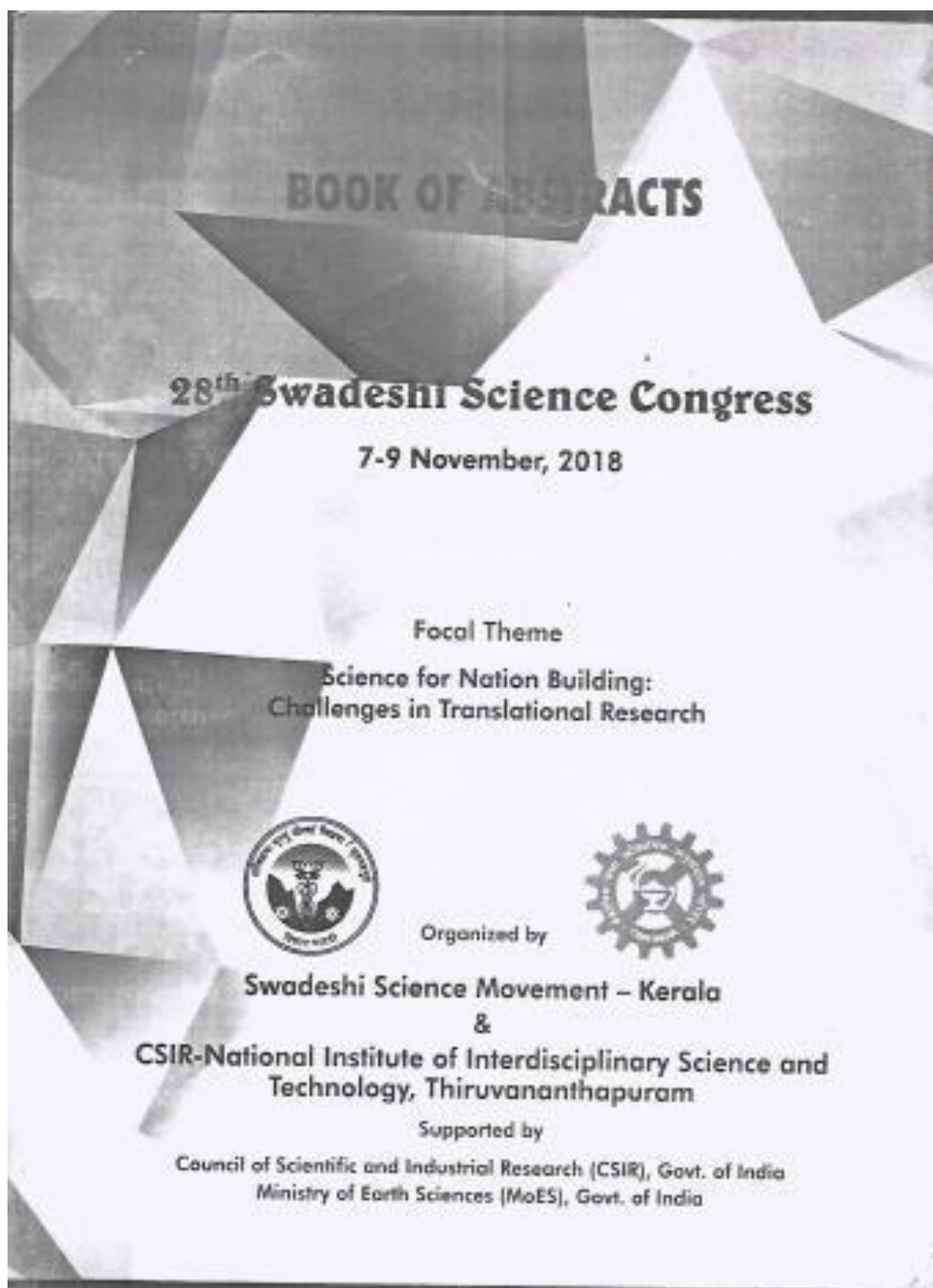




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Divyaa Sreekumar: Expression of TGF beta 1 gene in Human Embryonic Kidney(HEK) 293 cell lines by the effect of HALE, 28th Swadeshi Science Congress





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28th Swadeshi Science Congress

7 -9 November, 2018

at

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November, 2018



an untreated control. The bands indicated that MEAA treated cells at 50 µg/ml and 100 µg/ml concentrations exhibited DNA fragmentation, which points towards the apoptosis-inducing property of MEAA. GC/MS analysis of MEAA suggested that the extract was primarily characterized by the presence of phytol, Phthalic acid di (2-propylpentyl) ester and Phthalic acid octyl 2-propylpentyl ester, which are compounds having anticancer potential. The study thus identifies *A. aureum* as a plant having the potential to be developed as an anti-cancer pharmaceutical.

HS -12

Expression of *TGF β1* gene in human embryonic kidney 293 cell lines by the effect of *Hemigraphis alternata* leaf extract

Divyaa Sreekumar, Salini Bhasker, Mohankumar C.
and ¹Renuka Devi P.

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Coimbatore - 641 004

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Despite the chemical and biochemical analysis of the therapeutic properties of herbs, the molecular evidence for detecting the mode of action of natural drugs has been a novel trend of research today. *Hemigraphis alternata*, a tropical herb of Acanthaceae family has gained sufficient therapeutic attention in folklore medicines as a potent phyto-medicine for wound healing. Wound healing is a complex and protracted process of tissue repair and remodeling. Each phase of repair requires presence of certain growth factors, cytokines and immune cells to accelerate healing process. Transforming Growth Factor Beta 1 (*TGF β1*) is one such growth factor which plays an effective role in wound healing. In the present study, an attempt was made to reveal the molecular mechanism of the wound healing effect of *H. alternata* leaf extract (HALE) fractions separated by silica-based column chromatography. Nine fractions were collected and each fraction was treated on *in vitro* scratch wound model cell line cultures of Human Embryonic Kidney (HEK) 293 cells for determining wound closure rate at an interval of 24 hours. It was obvious from the data that the Fractions 8 and 9 showed higher wound closure. The

George Mathew: Quality of Management Education and its Impact on Skill development: A study of Alumni of Management Institutes in Kerala State

Quality of Management Education and its Impact on Skill Development: A Study of Alumni of Management Institutes in Kerala State

GEORGE K.MATHEW



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STUDY OF ALUMNI OF MANAGEMENT INSTITUTES IN KERALA STATE

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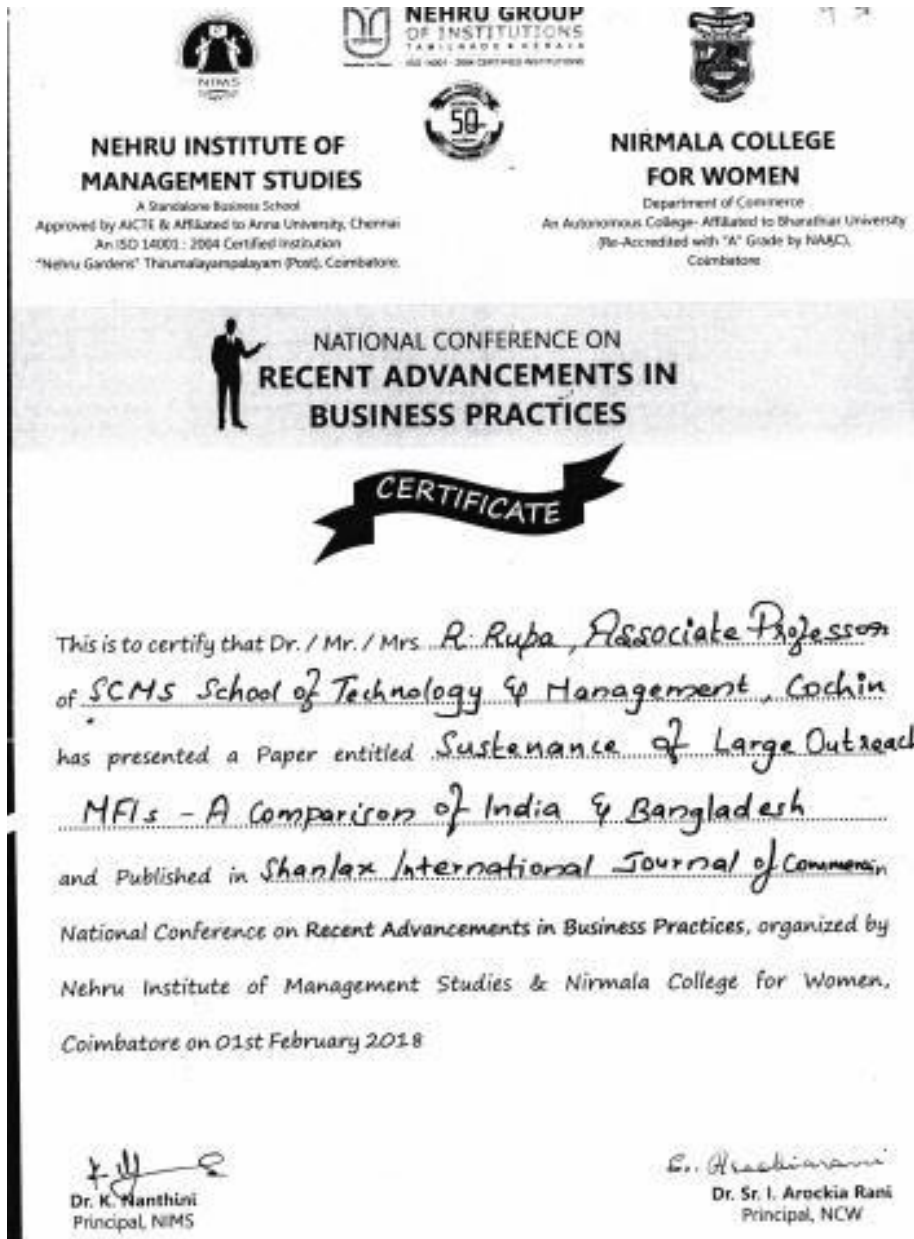


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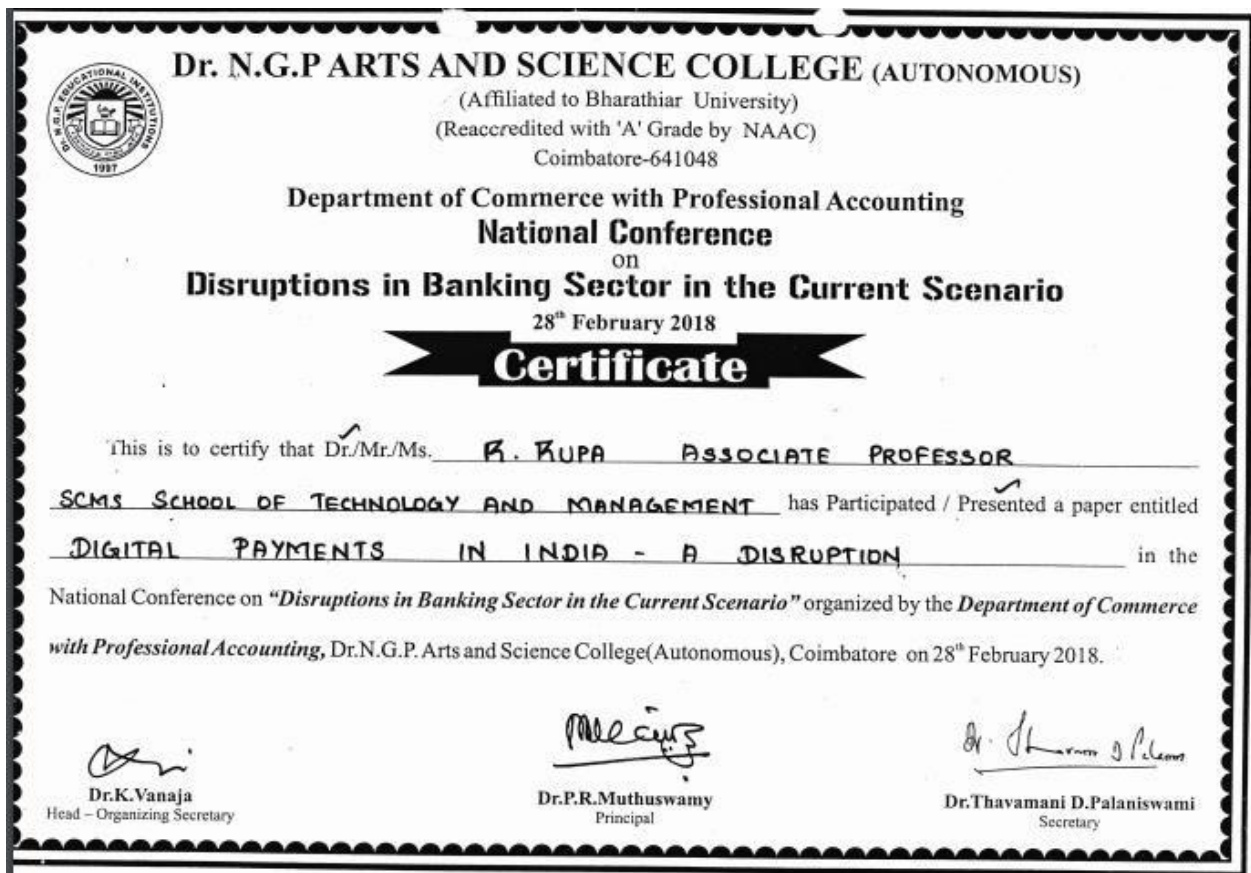


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