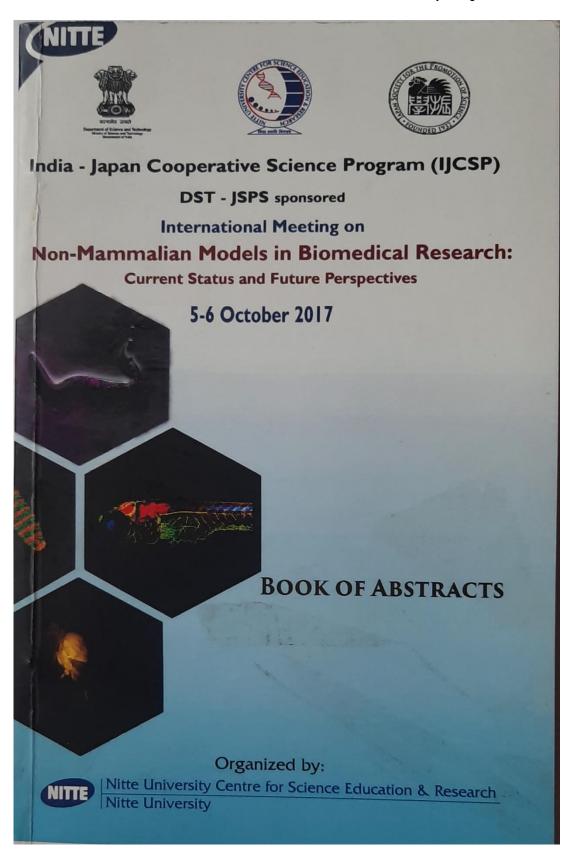
3.3.2. Total number of books and chapters in edited volumes/books published and papers innational/international conference proceedings year wise during last five years

Supporting Document

Year 2017-18

1. Document for Criterion 3.3.2 - International Conference of Dr. Narshimamurthy Anegundi



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Hydroxy and methoxy derivatives of coumarin manifest antiangiogenic activity in developing embryos of zebrafish (Danio rerio)

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Coumarins belong to the flavonoid class of plant secondary metabolites, which have pharmaceutical significance owing to their diverse biological (anti-proliferative, anti-microbial, anti-viral, anti-inflammatory, anti-diabetic and anti-oxidant) activities tested on cell cultures including cancerous cell lines. In the present study we made an attempt to investigate the relative antiangiogenic potentials of hydroxy and methoxy derivatives of coumarin employing embryonic angiogenesis of zebrafish (Danio rerio) as biological model. Developing embryos (n = 60) of D. rerio were exposed to graded (0, 1.0, 2.0, 3.0, 4.0 and 5.0 mM) concentrations of 4hydroxycoumarin (4HC) or 7-hydroxycoumarin (7HC) or 7-methoxycoumarin (7MC) from gastrulation (5.25 hpf - hours post fertilization) stage until hatching (72 hpf); developmental trajectory of embryos/larvae was traced for a week. Exposure to coumarin derivatives caused an impairment in the patterning of intersegmental vessels (ISVs), dorsal aorta (DA), dorsal longitudinal anastomotic vessel (DLAV), posterior cardinal vein (PCV) and common cardinal veins (CCVs) accompanied by developmental anomalies like pericardial edema (4HC), declined heart rates, tail distortions and increased cellular apoptosis compared to controls. Among tested compounds 7HC exhibited greater antiangiogenic effects followed by 7MC and 4HC in developing embryos of zebrafish.



india - Japan Cooperative Science Programme (IJCSP)





Certificate of Participation

This is to certify that Dr./Mr./Ms. Narashimamurthy Anegundi has participated and presented poster in the International Meeting on "Non-Mammalian Models in Biomedical Research: Current Status and Future Perspectives" held on 5-6 October 2017 organised by Nitte University Centre for Science Education and Research, Deralakatte, Mangaluru, India.

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