



KG COLLEGE OF ARTS AND SCIENCE

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Research and Development Cell

Faculty Researcher Profile



FACULTY RESEARCHER PROFILE TEMPLATE

Name	Dr.B.SANGEETHA	Degrees	M.Sc., M.Phil, Ph.D
Image for home page			
Faculty Profile (200 Words Minimum)	<ul style="list-style-type: none"> • Dr. B. Sangeetha, working as an Assistant Professor & Head Department of Biotechnology, Convener in IIC. • Mentor in Students project. • 2013 JRF in UGC Project. 		
Keywords			

RESEARCH PROJECTS / FOCUS AREAS

Title and description of research projects and Ph.D Research / focus areas (Minimum 100 Words about each projects)	<p>“Profiling of fatty acid composition by GC-MS and evaluation of Anti-obesity activity of <i>Benincasa hispida</i> against cafeteria diet induced obesity in Swiss albino mice”.</p> <p>This thesis describes analytical methods for identification of the main constituents in the seed of <i>B. hispida</i> and its pharmacological uses. Both the qualitative analysis of lipids and phytochemical screening showed the presence of bioactive compounds in <i>B. hispida</i> fruit and seed. The FT IR respective spectrum was used to identify the functional groups of the compounds present. The AAS results showed the presence of some metal in fruit juice. Fatty acids and functional groups were identified in seed oil by GC-MS and NMR. The invitro antioxidant activity of <i>B. hispida</i> seed oil and fruit juice indicates the potential to act as significant source of antioxidants. Further, the antiobesity activity of <i>B.hispida</i> seed oil were analysed in Swiss albino mice and evaluated upregulation/down regulation of genes involved in hepatic lipid metabolism by RT (Real time) – PCR.</p>
Images link related to the research work may be provided with description.	<p>https://docs.google.com/presentation/d/16FhrlTUvrjIUzykkqB8CA7rFgf4PKZE2/edit#slide=id.p1</p>

PUBLICATIONS

1. <https://www.sciencedirect.com/science/article/abs/pii/S0927776512003268>
2. Profiling of phenolic compounds using UPLC–Q-TOF-MS/MS and nephroprotective activity of Indian green leafy vegetable *Merremia emarginata* (Burm. f.)
<https://drive.google.com/file/d/1Lm2i13JLUQi7CCnlqI-5xZg8-jIPmrBB/view?usp=sharing>

Google Scholar ID	
FACULTY MEMBER CONTACT SECTION	
Email	Sangeetha.b@kgcas.com
Office Address	Department of Biotechnology, KG College of Arts & Science, Coimbatore- 35.
Phone No & E-Mail ID.	91 - 422 - 441 9999 info@kgcas.com