PREFACE

The objectives proposed in the PhD research Study are implemented successfully and the progress of the study has been clearly demonstrated periodically from 2010 to 2016, respectively. The complete research work of the proposed topic under the discipline was compiled in the form of Thesis under the supervision of Dr. S. Lokesh, Ass. Professor, DOS in Biotechnology, University of Mysore, Mysuru and Dr. K. B. Chandra Sekhar, Professor of Chemistry & Director of OTRI, Jawaharlal Nehru Technological University Anantapur (JNTUA), Ananthapuramu. The main chapters of the thesis are enunciated here-under.

In the ‘Introduction chapter’, the background of the proposed objectives was discussed systematically under the captions i.e., General Introduction and Specific Introduction. The general introduction gives overview of the problems of the proposed objectives in the light of Past, Present and Future scenarios. The Specific Introduction describes the real need of the selected research objectives to combat the various current issues through appropriate solutions obtained from the research study.

In the segment of Review of Literature, A well-structured literature review was conducted to characterize the articles in a logical flow of ideas; such as, summary of research, methodology, results and discussions that uses explicit protocols to perform a thorough literature search and critical appraisal of individual studies to identify the valid and applicable evidence has been recorded.

Based on the literature study, the base-line survey was undertaken at the study area (Biligirirangana Hill area) in order to collect the first-hand informations relating the objectives such as, Interaction with the Tribal Practitioners, Taking the feed-back through semi-structured Questionnaire, collection of data on Tribal Medicinal practice, Wound related issues, procurement of the samples of Ethno-medicinal plants and Tribal medicinal formulations from the Tribal medicine men.

In the Chapter, Materials and Methodology, all the required materials of Standard Analytical grade were procured from the authorized sources. The standard protocols/methodological approaches developed by different recognized authors were used to implement the objectives proposed in the study. In this Chapter, processing of the samples of herbal formulations, characterization, efficiency of the formulations, analysis, stability factors, evaluations, in vitro study using animals, appraisal of Anti-
Snake venom etc. were employed to ascertain the results through repetition of the experiments.

The outcomes in the segment of **Results and Discussion** of the different analyses were recorded in the form of tables, graphs, figures, images, ray diagrams, through statistical approach. In this Chapter, the differential expressions from the individual experiments were observed and the obtained results were correlated and discussed hypothetically with the other studies conducted by the various researchers in the similar disciplines.

In **Conclusion** segment, the obtained results were justified in the light of current scenario and the benefit of the findings has been represented practically and the same was dedicated to the mankind along with valid recommendations followed by complete implications.

In the segment of **Reference**, thorough research studies relating to the proposed objectives were collected and the data base was systematically analyzed in the light of past, present and future implications based on the research findings.

The thesis has been made solely by me and I have done my best to provide references to all the sources. I have been impressed and intrigued by this research on Phyto-chemical and Pharamacological aspects by evaluating the Tribal medicine Formulation for Wound healing, Anti-oxidants, Antimicrobials, Phyto-constituents, Anti-venom activity and Anti-proliferative activities etc in the plant drugs namely, *A. serphyllifolia* and *D. hispida* did not contain cardiac glycosides and coumarins while, *G. mauritiana, N. nimmoniana* and *R. densiflora*.

At the outset, writing of Thesis has been really hard, but, in the process of compilation and preparation of the same, I have learned a lot and conceptions on scientific justification of the Tribal Medicine Formulation (TMF) apart from validation of the TMF drug. We have dealt with a lot of hypothesis, phenomenon, key-concepts and related research notes, articles, in an attempt to give this THESIS on the topic entitled, “**Pharmacological and Phyto-chemical evaluation of Wound healing activity in some Less known Ethno-medicinal Plant drugs practiced by Tribal (Soliga) community of Biligirirangana Hills, India**” as a broad perspective on Tribal/Folk/Phytomedicine, thus, helps for the treatment of Wounds and related ailments.

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