

**EVALUATION OF ANTILITHIATIC POTENTIAL OF  
BANANA CULTIVARS OF DIFFERENT  
GENOME AND PLOIDY**

By

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A THESIS SUBMITTED TO

AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER  
EDUCATION FOR WOMEN COIMBATORE – 641 043

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF  
**DOCTOR OF PHILOSOPHY IN BIOCHEMISTRY**

JANUARY, 2015

## ACKNOWLEDGEMENT

*I thank God Almighty!*

*I express my sincere thanks to our esteemed Chancellor **Dr. T. S. K. Meenakshisundaram** and our Hon. Vice-Chancellor **Dr. Sheela Ramachandran**, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for all the encouragement and infrastructure support towards the successful completion of the study.*

*I am sincerely thankful to **Dr. A. Venmathi**, Registrar and **Dr. A. Parvathi**, Dean, Faculty of Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for extending all possible for the successful completion of the study.*

*I acknowledge the guidance and suggestions given by **Dr. G.P.Jeyanthi**, Controller of Examinations, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore in all the stages of thesis completion and submission.*

*I am deeply grateful to **Dr. S. Annapoorani**, Professor and Head, Department of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her constant support and motivation throughout the study. I am sincerely thankful for the guidance and suggestion given by her during my doctoral committee meetings.*

*I whole heartedly thank my beloved guide **Dr. R. Nirmaladevi**, Assistant Professor, Dept. of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her keen interest in this study and timely guidance, patience, help and encouragement. Whenever I faltered, she boosted me up and has been a tremendous source of encouragement during the research period. I am deeply grateful for all her valuable efforts that I could achieve more than what I thought possible. I also thank all her family members for their support and a special note of thanks to **Rashmitha and Mahishmitha**.*

*I place on record a deep sense of gratitude and profound thanks to **Dr. P.R. Padma**, Professor, Dept. of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her constructive and critical guidance throughout the study. I express my sincere thanks for her valuable time she spent for my doctoral committee meetings and her suggestions.*

*My sincere gratitude to **Dr. R. Parvatham**, Former Dean, Faculty of Science, Former Professor and Head, Dept. of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her help and suggestions for my successful completion of my thesis.*

*I place on record my sincere thanks **Dr. S. Sumathi, Dr. D. Kavitha and Dr. P. Radha** for their suggestions during the work seminars and to **all the Faculty Members**, Dept. of Biochemistry,*

*Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Deemed University, Coimbatore for their constructive criticism and suggestions in carrying out the study.*

*I sincerely thank all the **Technical staff members**, Dept. of Biochemistry, Biotechnology and Bioinformatics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for the help rendered by them for my research work.*

*I am immensely grateful to **Ms. V. Sharulatha**, Assistant Professor, Dept. of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for the help provided by her in the phase III of my research.*

*A special note of thanks to **Dr. J. Auxilia**, Assistant Professor, TamilNadu Agricultural University, Coimbatore for providing the raw material and help rendered by her. I would like to thank **Prof.R.M.Vijayakumar**, Head (Pomology), TamilNadu Agricultural University, Coimbatore and Chairman of my Doctoral Committee meetings for his suggestions and guidance. I also thank **Dr. Ravichandran**, Senior Scientist, Indian Institute of Oil Palm Research, who permitted me to utilize the microscope for capturing quality pictures for my thesis.*

*It's my pleasure and deepest gratitude to my beloved husband **Dr. D. Ramajayam**, for the help and support rendered by him and my cute little daughter **Neha, R.K.** for her sacrifice, support and affection at various stages of my study. Without their support its impossible for me to complete the study. I am also thankful to my father **Prof. S. Sathiamoorthy**, Rtd. Director, NRC Banana, for his contribution to my research work and various other help rendered by him throughout my study. I also thank my **mother-in-law and sis-in-law** for taking care of my husband and daughter during my thesis work. I express my sincere and heartfelt thanks to **my mother, sister** and all my dearest relatives for their blessings and encouragement. A special thanks to **Nirmal, Risha, Samyu, Sarvesh and Sivesh**.*

*Last but not the least, I am grateful to my friend **Mrs. Shrinidhi Rai Bhandary**, who is always with me in my research life. She is equally credited for the successful completion of my work. From the in depth of my heart I thank her for travelling with me throughout my research. Also, I am greatly indebted to all my fellow researchers **Mohana, Ishwariya, Kavithaa, Sonia, Shalini, KV, Sreeja, Amuthapriya, Pankajavalli, Vasundara, Mary Shoba, Pavya, Preethi, Radha, Sharadha, Sivapriyadarshini** and **Yamuna** for their selfless help and suggestion for carrying out several experiments for my thesis.*

*I wish to express my thanks to thanks to Sophisticated Analytical Instrument Facility, Indian Institute of Technology, Chennai and The South India Textile Research Association, Coimbatore, India, for NMR and GC-MS analysis.*

*I also thank all the unseen hands whose names I have failed to mention here and make it known that I am well aware of and grateful for their timely help.*

**S.Kalpana**

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## LIST OF ABBREVIATIONS

µg	-	microgram
µL	-	microlitre
<sup>1</sup> H -NMR	-	Proton Nuclear Magnetic Resonance
A	-	Absorbance
AAPH	-	2,2'-Azo-Bis(2-AmidinoPropane) dihydro chloride
ABTS	-	2, 2'-Azino-Bis (3-ethyl benzo- Thiazoline-6-Sulfonic acid)
AICRPE	-	All India Coordinated Research Project on Ethnobiology
ALT	-	Alanine Transaminase
ANOVA	-	Analysis of Variance
ANSA	-	1-Amino-2-Naphthol-6-Sulphonic acid
AST	-	Aspartate Transaminase
C.D.	-	Critical Difference
C.V.	-	Critical Variance
CaC <sub>2</sub> O <sub>4</sub>	-	Calcium Oxalate
CaOx	-	Calcium Oxalate
Cap	-	Calcium Phosphate stones
CAT	-	Catalase
CDNB	-	Chloro-2, 4 – Di Nitro Benzene
cm	-	Centimeter
CO <sub>2</sub>	-	Carbon Dioxide
COD	-	Calcium Oxalate Dihydrate
COM	-	Calcium Oxalate Monohydrate
Conc.	-	Concentrated
COT	-	Calcium Oxalate Trihydrate
CT scan	-	Computer Tomography
dia	-	Diameter
dL	-	Deci Litre
DMEM	-	Dulbecco's Modified Eagles Medium
DMRT	-	Duncan's Multiple Range Test
DNA	-	Deoxyribo Nucleic Acid
DNPH	-	2,4 – Dinitrophenyl hydrazine
DPPH	-	2, 2-diphenyl-2-Picryl Hydrazyl Hydrate
DPX	-	Dibutyl Phthalate Xylene
DTNB	-	5, 5'-Di Thio-bis-2-Nitro Benzoic acid
EDTA	-	Ethylene Diamine Tetra Acetic acid
ELISA	-	Enzyme Linked Immuno Sorbent Assay
ESWL	-	Extracorporeal Shock Wave Lithotripsy
FAO	-	Food and Agriculture Organization

FCS	- Fetal Calf Serum
FTIR	- Fourier Transform Infrared Spectroscopy
g	- Gram
GAGs	- Glycos Amino Glycans
GC-MS	- Gas Chromatography-Mass Spectrometry
GSH	- Reduced Glutathione
GST	- Glutathione -S-Transferase
h	- Hour
H <sub>2</sub> O	- Water
H <sub>2</sub> O <sub>2</sub>	- Hydrogen peroxide
H <sub>2</sub> SO <sub>4</sub>	- Sulphuric acid
HAP	- Carbapatite or Hydroxyl Apatite
HCl	- Hydro Chloric acid
HNO <sub>3</sub>	- Nitric acid
HPLC	- High Performance Liquid Chromatography
HPTLC	- High Performance Thin Layer Chromatography
HSD	- Honest Significant Difference
Ir per cent	- Inhibitory per cent
IU	- International Units
kg	- Kilogram
KH <sub>2</sub> PO <sub>4</sub>	- Potassium dihydrogen phosphate
KOH	- Potassium hydroxide
LDH	- Lactate Dehydrogenase
LiOH	- Lithium hydroxide
M	- Molar
mg	- milligram
mL	- milli Litre
mM	- milli Molar
mm	- millimeter
MTT	- 2-(4,4-diMethyl-2-Tetrazoyl)-2,5-diphenyl-2,4,Tetrazolium salt
N	- Normality
Na <sub>2</sub> CO <sub>3</sub>	- Sodium carbonate
NaCl	- Sodium chloride
NADH	- Nicotinamide Adenine Dinucleotide - Hydrogen
NADPH	- Nicotinamide Adenine Dinucleotide Phosphate
NaOH	- Sodium hydroxide
NBRI	- National Botanical Research Institute
NH <sub>4</sub> OH	- Ammonium hydroxide
nm	- nanometer
NRK 52E	- Norma Rat Kidney Cells 52 Epithelial cells

O.D.	- Optical Density
O <sub>2</sub>	- Oxygen
O <sub>2</sub> <sup>•-</sup>	- Superoxide anion radical
OCP	- Octa calcium Phosphate
OH <sup>•</sup>	- Hydroxyl radical
OPN	- Osteopontin
PBS	- Phosphate Buffered Saline
PCNL	- Per Cutaneous Nephro Lithotomy
PDA	- Photo Diode Array
Pet Ether	- Petroleum Ether
PMS	- Phenazine Metho Sulphate
PPO	- Poly Phenol Oxidase
PS	- Phosphatidylserine
PTFE	- PolyTetraFluroEthylene
RCF	- Relative Centrifugal Force
R <sub>f</sub>	- Retardation/Retention Factor
ROS	- Reactive Oxygen Species
rpm	- Revolutions Per Minute
S.D.	- Standard Deviation
SCP	- Sodium Cellulose Phosphate
SOD	- Superoxide Dismutase
SPSS	- Statistical Package for the Social Sciences
SRB	- Sulphorhodamine B
SS	- Super Saturation
TBARS	- Thio Barbituric Acid Reactive Substances
TCA	- Tri Chloro Acetic acid
THP	- Tamm-Horsfall Protein
TLC	- Thin Layer Chromatography
TMS	- Tetra Methyl Silane
U	- Units
UV	- Ultra Violet rays
v/v	- Volume by Volume
w/v	- Weight by Volume
WHO	- World Health Organization
Wt.	- Weight
α - KG	- Alpha Keto Glutarate

## LIST OF PUBLICATIONS

- **Kalpana, S.**, Shrinidhi Rai, T. and Nirmaladevi, R. (2014) Effect of *Tridax procumbens* extract on calcium oxalate crystallization under *in vitro* conditions, *Adv. Applied Sci. Res.*, 5: 411-416.
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