

Supporting Information

(Table S1: List of primers, Table S2: List of phenolic compounds present in *Musa balbisiana*)

Musa balbisiana fruit rich in polyphenols attenuates isoproterenol-induced cardiac hypertrophy in rats via inhibition of inflammation and oxidative stress

Sima Kumari¹, Parmeshwar B. Katare¹, R. Elancheran², Hina L. Nizami¹, Bugga Paramesha¹, Sudheer Arava³, **Partha Pratim Sarma⁴**, Roshan Kumar¹, **Dinesh Mahajan¹**, Yashwant Kumar¹, Rajlakshmi Devi⁴, Sanjay K. Banerjee^{1*}

¹Drug Discovery Research Center (DDRC), Translational Health Science and Technology Institute (THSTI), Faridabad, India

²Drug Discovery Lab, Department of Chemistry, Annamalai University, Tamil Nadu

³Department of Pathology, All India Institute of Medical Sciences (AIIMS), New Delhi, India

⁴Institute of Advanced Study in Science and Technology, Guwahati-781035, Assam, India

Legends:

Table S1 Primers sequences

Table S2 Phytochemicals present in *Musa balbisiana*

Materials and Methods

Gene expression profiling

Table S1: Primers sequences

Name	Sequences	Product size (bp)	Temperature
RPL32	AGATTCAAGGGCCAGATCCT	193	57.3
	CGATGGCTTTTCGGTTCTTA		55.3
TNF α	CGACTCTGACCCCCATTACT	153	59.4
	CGTCTCGTGTGTTTCTGAGC		59.4
ANP	AGCGAGCAGACCGATGAAG	146	57.3
	AGCCCTCAGTTTGCTTTTCA		55
BNP	GACCAAGGCCCTACAAAAGA	102	54.8
	CCCAAAGCAGCTTGA ACTATG		54.2
β MHC	TGGAGCTGATGCACCTGTAG	164	56.8
	ACTTCGTCTCATTGGGGATG		54.5
Caspase 3	AGGCCGACTTCCTGTATGCT	155	59.4
	TCCGGTTAACACGAGTGAGG		59.4
Caspase 9	AAGACCATGGCTTTGAGGTG	210	57.3
	CAGGAACCGCTCTTCTTGTC		59.4
Collagen 1	ACGTCCTGGTGAAGTTGGTC	175	59.4
	CAGGGAAGCCTCTTCTCCT		59.4
Mmp2	GGGTGGTGGTCACAGCTATT	156	57.2
	CGGTGTGCAGTGAAGATTGT		55.7
Mmp9	CCACCGAGCTATCCACTCAT	159	56.4
	GTCCGGTTTCAGCATGTTTT		53.9

Results

Identification of phenolic compounds from *Musa balbisiana* powder

Table S2: Phytochemicals present in *Musa balbisiana*

Name of the Compound	Empirical formula	Retention time (min)	Ethno medical uses	Sources
Catechol	C ₆ H ₆ O ₂	4.753666667	Cardioprotective and Antilipidemic properties	[21, 22]
Rutin	C ₁₅ H ₁₄ O ₆	8.001	Cardioprotective effects and antioxidant activity	[27, 28]
(-)-Epicatechin	C ₂₇ H ₃₀ O ₁₆	3.41	Antioxidant activity and cardioprotective effects	[29, 30]
Kaempferol 3-O-sophoroside	C ₂₇ H ₃₀ O ₁₆	8.001416667	Cardioprotective, antimicrobial and antioxidant activity	[31, 32]
Quercetin-3,4'-O-di-beta-glucopyranoside	C ₂₇ H ₃₀ O ₁₆	8.001416667	Cardioprotective effects and antioxidant activity	[10, 23, 24]
Apigenin-6-C-glucoside-7-O-glucoside	C ₂₇ H ₃₀ O ₁₅	8.1183	Cardioprotective effects and antioxidant, antidiabetic activity	[10, 25, 26]
Chlorogenic acid	C ₁₆ H ₁₈ O ₉	2.03	Anti-inflammatory, antioxidant and Cardioprotective	[10, 20]