

APPENDICES

Appendix 1: Immunopharmacological activities of certain plant extracts.

Name of plant	Part used	Active constituent (Chemical nature)	Activity	Experiment conducted	Reference
<i>Eupatorium adenophorum</i>	Leaves	Terpenoid	Anti-inflammatory Anti-tumor Anti-oxidant	Inhibition of DTH reaction Tumor regression assay Inhibition of ROS	
<i>Curcuma longa</i>	Rhizome	Terpenoid	Anti-tumor Anti-inflammatory Anti-oxidant	Tumor regression assay Inhibition of DTH reaction Inhibition of ROS	Chakravarty & Yasmin, 2003 and 2005. Kim JM, <i>et. al.</i> 1998. Khar A <i>et. al.</i> 1999. Srimal & Dhawan, 1973 Brouet & Ohshima, 1995 Cohly, <i>et al.</i> , 1998 Kunchandy & Rao, 1989 &1990 Ruby, et al., 1995

<i>Hemidesmus indicus</i>	Roots	□	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Atal <i>et al.</i> , 1986 Karnick, 1977;
<i>Aconium heterophyllum</i>	Rhizome	Steroidal alkaloid	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Atal <i>et al.</i> , 1986
<i>Anisomeles indica</i>		Flavone	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Dharmasiri <i>et al.</i> , 2002 Atal <i>et al.</i> , 1986
<i>Radix glycyrrhizae</i>		□	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Atal <i>et al.</i> , 1986
<i>Tinospora cordifolia</i>	Stem	Irriboid glycosides	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Rai and Gupta, 1966 Singh, <i>et al.</i> , 1984 Singh <i>et al.</i> , 2003
<i>Tylophora indica</i>	Leaves	Alkaloid	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Atal <i>et al.</i> , 1986 Shivpuri, Singhal & Prkash, 1972.

<i>Ocimum gratissimum</i>	Leaves	Pinenes, limonene	Anti-inflammatory Anti-oxidant	Carrageenan induced mice paw edema Inhibition of ROS	Atal <i>et al.</i> , 1986
---------------------------	--------	-------------------	---------------------------------------	---	---------------------------

Resveratrol	Phenolic OH/ Stibene	Anti-tumor Anti-inflammatory	<ul style="list-style-type: none"> • Suppresses NF-κB • Suppresses AP-1 • Activates caspases • Inhibits COX-2 and lipoxygenase 	<i>Baur et al., 2006</i> <i>Manna et al., 2000</i> <i>Aggarwal et al., 2004</i> <i>Tseng et al., 2004</i>
Celastrrol	Phenolic OH/ Terpenoid	Anti-tumor	<ul style="list-style-type: none"> • Inhibits NF-κB and related gene products 	<i>Sethi et al., 2007</i>
Fisetin	Phenolic OH/ Flavone	Anti-tumor	<ul style="list-style-type: none"> • Inhibits NF-κB and related genes 	<i>Sung, Pandey & Aggarwal, 2007</i>
Genistein	Phenolic OH/ Isoflavone	Anti-tumor	<ul style="list-style-type: none"> • Inhibits NF-κB • Inhibits Akt 	<i>Wang et al., 2007</i> <i>Gong et al., 2003</i>
Quercetin	Phenolic OH/ Flavonol	Anti-inflammatory Anti-oxidant	<ul style="list-style-type: none"> • Inhibits NF-κB • Scavenges ROS 	<i>Ruiz et al., 2003</i> <i>Boots et al., 2008</i>
Kaemferol	Phenolic OH/ Flavonol	Anti-cancer	<ul style="list-style-type: none"> • Inhibits NF-κB 	<i>Li et al. 2009</i>