INTERNATIONAL WORKSHOP ON MEDICINAL AND AROMATIC PLANTS

In association with the Royal Flora Ratchaphruek 2006: International Horticultural Exposition for His Majesty the King of Thailand. To Express the Love for Humanity to Commemorate the 60th Anniversary (Diamond Jubilee) Celebrations of His Majesty’s Accession to the Throne and His Majesty’s 80th Birthday Anniversary 1 November 2006 - 31 January 2007

January 15-18, 2007
Lotus Pang Suan Kaew Hotel
Chiang Mai, Thailand
A PRELIMINARY STUDY OF POLYSACCHARIDE GEL EXTRACTED FROM THE FRUIT-HULLS OF DURIAN (DURIO ZIBETHINUS MURR.) ON IMMUNE RESPONSES AND CHOLESTEROL REDUCTION IN CHICKEN

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The effects of polysaccharide gel (PG) extracted from the fruit-hulls of durian (\textit{Durio zibethinus} Murr.) on immune responses and cholesterol reduction were studied in broiler chicken. The PG was mixed in the feed at different concentrations, 0.5, 1.5 and 3 g\%, and was fed to the chicken. The results showed hemagglutination-inhibition (HI) titers against newcastle disease in the chicken revealed a tendency to lower antibody levels in those that did not receive PG in the feed. On the other hand, measurement of cholesterol in the pectoral muscle of the chicken showed lower level in the chicken that received PG in the feed. The results suggest the possibility of using PG as a feed supplement for stimulation of an immune response to ND and for lowering cholesterol levels in the chick which become a source of healthy meat for humans. Further studies need to be continued to confirm the benefits of the PG on these points.