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Mangosteen (*Gracinia mangostana L*) skin as stem cell growth factor

Ira Arundina, Indeswati diyatri and Theresia Indah Budhy
Universitas Airlangga Surabaya, Indonesia

Stem cells give new hope to fast healing. Stem cells in the body are very limited so that the growth factors are necessary to enhance stem cells proliferation. Growth factors has been used is still expensive and difficult to get. It is necessary to develop alternative uses of medicinal plants as growth factor that accelerates wound healing process. Mangosteen skin (*Gracinia mangostana L*) its active substances, namely xanton plays a role in stimulating fibroblasts to proliferate and stimulates collagen synthesis

to accelerate wound healing. Mangosteen skin's extract compounds of α -mangostin and xanthone; increase the signaling activity of transcription factor MAPK/ERK, increased proliferation and differentiation MSC, increased Fibroblast, lymphocytes, macrophage. In addition of Mangosteen skin can improve the ability of MSC proliferation. The addition of Mangosteen skin can increased Fibroblast, lymphocytes, macrophage in wound healing of mice periodontitis.

arundinaira@gmail.com