Chapter 7

Conclusion

The study focussed on identifying a potent plant compound against skin cancer by specifically inducing terminal differentiation and thereby promoting the cancerous cells towards apoptosis. For the first time, this study reported the potential of LUT to elicit the expression of caspase-14 and thereby inducing terminal differentiation with cell cycle arrest and consequent induction of apoptosis in human immortalized keratinocytes (HaCaT cells). This target-based approach in skin cancer therapy provides an insight to develop more efficient drugs with minimal side effects and can possibly be more effective with an improved safety profile.