

## CHAPTER V

### CONCLUSION

In present investigation, from the rhizome of *Belamcanda chinensis* (L.) DC. three new phenolic compounds, namely, belamphenone [419], belalloside A [420] and belalloside B [421] were isolated along with 13 known compounds. These known compounds are tectorigenin [14], irisfloreantin [7], irigenin [5], irilin D [412], tectoridin [13], iristectorin B [413], iristectorin A [414], iridin [4], hispiduloside [415], jaceoside [416], androsin [417], iriflophenone [418] and resveratrol [57]. Chemical examination of the heartwood of *Dalbergia parviflora* Roxb. led to the isolation of five new isoflavones, namely, khrinone A-E [424, 432, 437, 439 and 441], a new isoflavan, namely, khriol A [422], a new isoflavanone, namely, dalparvin [438], and two dihydroflavonol, namely, dalparvinol A [436] and dalparvinol B [440], together with 32 known flavonoids, *i.e.* mucronulatol [77], 7-demethylrobustigenin [423], 3'-methoxyviolanonone [197], onogenin [252], sativanone [175], pinocembrin [174], biochanin A [95], hydroxyobtustyrene [355], 2'-methoxybiochanin A [425], (6a,11a)-3,8-dihydroxy-9-methoxypterocarpan [426], 8-demethylduartin [429], pinobanksin [428], secundiflorol H [429], 7,3'-dihydroxy-4'-methoxyisoflavanone [430], violanonone [177], arizonicanol A [431], tectorigenin [14], vestitone [176], pratensein [433], 2'-methoxyformononetin [434], formononetin [72], vestitol [78], xenognosin [435], 5'-methoxyvestitol [183], 3'-methoxydaidzein [196], calycosin [81], theralin [442], naringenin [251], genistein [3], liquiritigenin [84], isoliquiritigenin [83], and bowdichione [443]. Tectorigenin [14] and tectoridin [13] major constituents from *B. chinensis* showed strong stimulatory activity concerning cell proliferation in both MCF-7 and T47D cells, along with their high luciferase inducing activity in both MCF-7/Luc and T47D/Luc cells were observed. Almost all flavonoid compounds isolated from *D. parviflora*, except isoflavans showed high stimulatory activities against both cells and showed high increase in luciferase induction against both transfected cells. Genistein [3] showed highest estrogenic activities on both assays, including formononetin [72], khrinone D [439], biochanin A [95], theralin [442], naringenin [251], liquiritigenin [84], (6a,11a)-3,8-dihydroxy-9-methoxypterocarpan [426], isoliquiritigenin [83] and xenognosin [435].