

Synthesis, spectral, stereochemical and biological studies of some cyclohexylsemicarbazones of piperidin-4-ones

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## Highlights

- A series of 2,6-diarylpiperidin-4-one *N*(4')-cyclohexylsemicarbazones were synthesized.
- FT-IR,  $^1\text{H}$ ,  $^{13}\text{C}$ , HMBC, HSQC, HOMOCOSY and NOESY spectral studies reported.
- Stereochemistry of the synthesized compounds were studied and discussed.
- *In vitro* screening of antibacterial, antifungal and anticancer activities were performed.

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