

PREFACE : Experiencing the Process of Thesis

This Ph.D thesis document is the outcome of my research work at Zydus Research Centre and the department of Chemistry, The Maharaja Sayajirao University of Baroda, Vadodara, India. This research work has been also a part of my job as senior scientist at Zydus Research Centre, Ahmedabad, India to which I have been affiliated since Nov 1991.

The thesis consists of three chapters which cover various aspects of metabolic disorders and development of dual PPAR agonists for the treatment of the metabolic disorders. The 'Introduction' section contains general information about metabolic disorders, wherein detailed pathophysiology of the disease and the current treatment options have been discussed. This is followed by an introduction to PPARs as targets for the treatment of metabolic disorders. In the second chapter the designing strategies, rationale for novel and sub-type selective PPAR agonists and results are discussed. In the 'Experimental' chapter detailed procedures for the synthesis of the compounds as well as the characterization data are presented. Details of biological experiments are also described in this section. Finally, copy of spectra of most of the compounds are incorporated at the end of the thesis.

Working for this thesis was a great learning experience for me and working for publications was a joy to write. Although this research work was outcome of my project but it is also for social cause because as medicinal chemist our focus is on finding innovative therapies for diseases affecting mankind through continuous research and development.

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