



## Foreword

It is now well known that enantiomers differ greatly, especially concerning their biological activity. The importance of enantiopure compounds is increasing in industry, such as pharmaceutical, agrochemical, or fragrance industry. Although the resolution of enantiomers is one way to obtain enantiopure compounds, the development of new procedures in order to obtain only the desired enantiomer is of great interest. Particularly attractive is the use of a chiral catalyst, affording large amounts of predominantly (or only) one enantiomer from only a very small amount of chiral inducer. During the last decades, there have been impressive results in this field. These very important findings for the community of chemists were recognized in 2001 by the attribution of the Nobel Prize in Chemistry to Williams S. Knowles, Ryoji Noyori, and K. Barry Sharpless.

For these reasons, we decided to organize a special issue of the *Journal of Molecular Catalysis A: Chemistry* devoted to the topic of Asymmetric Organometallic Catalysis. This issue contains 21 reports of original new results that have been received from a number of leading researchers on this topic. We hope the readers will find this issue to be a very interesting one.

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