

Total Synthesis of γ -Lactone Natural Products

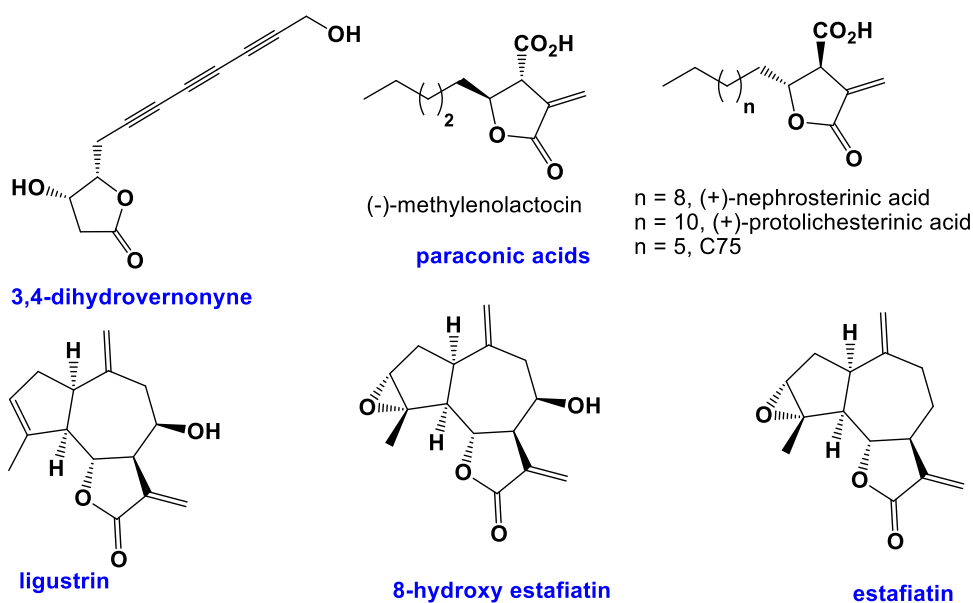
Rodney A. Fernandes

Department of Chemistry, IIT-Bombay, Powai, Mumbai 400076
Maharashtra, India

(E-mail: rfernand@chem.iitb.ac.in)

Abstract:

The total synthesis of selected γ -lactone natural products by short synthetic sequences will be presented in this lecture. The aim was to minimise the use of protecting groups and develop step-economic synthesis.¹ Our work on the total synthesis of 3,4-dihydrovernonyne,² paraconic acids and guaianolides³ will be presented.



References:

1. *Protecting-Group-Free Organic Synthesis: Improving Economy and Efficiency*; R. A. Fernandes, Ed.; John Wiley & Sons: Hoboken, NJ, **2018**.
2. (a) Ramakrishna, G. V.; Fernandes, R. A. *J. Org. Chem.* **2019**, *84*, 14127. (b) Ramakrishna, G. V.; Fernandes, R. A. *Org. Lett.* **2019**, *21*, 5827.
3. Ramakrishna, G. V.; Fernandes, R. A. Unpublished results.

Bio-Sketch of Speaker

Name: Dr. Rodney A. Fernandes

Designation: Professor

Department of Chemistry
IIT-Bombay

Contact Number: 022-25767174/9969617544

e-Mail: rfernand@chem.iitb.ac.in

Homepage: <http://ether.chem.iitb.ac.in/~rfernand/default.htm>



Dr. Rodney A. Fernandes, Professor

1995 Bachelor's, Goa University, Goa

1997 Master's, Goa University, Goa

2003 Ph. D., Pune University/NCL Pune

2003 Postdoctoral Fellow, Tohoku University, Sendai Japan.

2004 AvH Fellow, Freiburg University, Germany

2006 Assistant Professor, UNAM Mexico City, Mexico

2007 Assistant Professor, IIT-Bombay

2011 Associate Professor, IIT Bombay

2015 Full Professor, IIT Bombay

2017-2018 Dean Academic and Dean Faculty Affairs, IIT Goa

Awards: INSA Young Scientist Medal Award 2004, AvH Fellow 2004-2006, Fellow of Maharashtra

Academy of Sciences, 4th S.C. Bhattacharya Memorial Lecture Award 2017, Departmental
Excellence in Teaching Award 2019-2020, IIT Bombay and Top 5% most cited author in RSC
journals in 2020.