



香港中文大學化學系
Department of Chemistry
THE CHINESE UNIVERSITY OF HONG KONG

The Chinese University of Hong Kong

Department of Chemistry Research Seminar Series



**Prof. Emilio Carlos
DE LUCCA JÚNIOR**

**Institute of Chemistry
University of Campinas
Brazil**

**Molecular Surgery:
Breaking one C–H
bond at a time in
natural product
synthesis**

**19 Mar 2025 (Thursday)
3:30 PM
ERB 408**

**Contact Person:
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Molecular Surgery: Breaking one C–H bond at a time in natural product synthesis

Abstract

In this seminar, site-selective C–H oxidation is presented as a strategy to transform complex and abundant natural products into more highly oxidized and structurally complex congeners. By exploiting inherent molecular complexity, selective oxidations are used to target strategic C–H positions, enabling scaffold remodelling and precise oxidation-state editing. The seminar will also present the development of a new oxidative strategy that enables access to previously inaccessible C–H positions, unlocking new chemical space from complex natural product frameworks.