



**Prof. Dr. Luciana G. de Oliveira,**  
Department of Organic Chemistry  
Institute of Chemistry  
University of Campinas - UNICAMP  
Caixa Postal 6154 – CEP 13083-970  
Fone: +55 19 35210193  
FAX: +55 19 35213023



University of Campinas, 26<sup>th</sup> of September 2019

Dear Dr. Benjamin Werth,  
Science Editor - Chemistry | Biochemistry JoVE

Please, find enclosed the manuscript entitled “**MS-Guided Genome Mining as Tool to Uncover New Natural Products**”, authored by Renata Sigrist, Bruno S. Paulo, Célio F. F. Angolini and Luciana G. de Oliveira, and submitted to be considered for publication in *JoVE* as a Methods Article – JoVEProduced Video.

Useful and fast methodologies to perform a wide-ranging evaluation of natural products are often desired and, since the introduction of genome mining as a powerful tool to promote dereplication of secondary metabolites, research in Natural Product has reached an ultimate level. “MS-Guided Genome Mining” particularly is very advantageous to target new molecules backbones or even to harvest a metabolic profile in order to identify analogues from already known compounds. In this article, we describe a protocol that provides the correlation of Genome Mining and Molecular Network to direct the discovery of new natural entities from crude metabolic extracts in which the main components are previously elected, and structurally related new candidates can also be associated with the genome sequence annotation.

All authors have contributed equally to the elaboration of this manuscript and we don't have any competing and/or relevant financial interest to disclose. It is also important to mention that this document is not under consideration by any other journal.

We are looking forward to hearing from you soon.

Sincerely yours,

A handwritten signature in black ink, reading "Luciana Gonzaga de Oliveira". The script is cursive and fluid, with the first name "Luciana" being the most prominent part of the signature.

Prof. Luciana Gonzaga de Oliveira

---