



Educando para a paz

Tipo	Periódico
Título	Potential Lipid Signatures for Diagnosis and Prognosis of Sepsis and Systemic Inflammatory Response Syndrome
Autores	Giovana Colozza Mecatti, Salvador Sánchez-Vinces, Anna Maria A. P. Fernandes, Marcia C. F. Messias, Gabrielle K. D. de Santis, Andreia M. Porcari, Fernando A. L. Marson, Patrícia de Oliveira Carvalho
Autor (es) USF	Giovana Colozza Mecatti, Salvador Sánchez-Vinces, Anna Maria A. P. Fernandes, Marcia C. F. Messias, Gabrielle K. D. de Santis, Andreia M. Porcari, Fernando A. L. Marson, Patrícia de Oliveira Carvalho
Autores Internacionais	
Programa/Curso (s)	Programa de Pós-Graduação Stricto Sensu em Ciências da Saúde
DOI	10.3390/metabo10090359
Assunto (palavras chaves)	sepsis; SIRS; lipidomics; multivariate analysis
Idioma	Inglês
Fonte	Título do periódico: Metabolites ISSN: 2218-1989 Volume/Número/Paginação/Ano: v. 10, p. 359, 2020
Data da publicação	1 September 2020
Formato da produção	Digital https://doi.org/10.3390/metabo10090359
Resumo	Systemic inflammatory response syndrome (SIRS) and sepsis are two conditions which are difficult to differentiate clinically and which are strongly impacted for prompt intervention. This study identified potential lipid signatures that are able to differentiate SIRS from sepsis and to predict prognosis. Forty-two patients, including 21 patients with sepsis and 21 patients with SIRS, were involved in the study. Liquid chromatography coupled to mass spectrometry and multivariate statistical methods were used to determine lipids present in patient plasma. The obtained lipid signatures revealed 355 features for the negative ion mode and 297 for the positive ion mode, which were relevant for differential diagnosis of sepsis and SIRS. These lipids were also tested as prognosis predictors. Lastly, L-octanoylcarnitine was found to be the most promising lipid signature for both the diagnosis and prognosis of critically ill patients, with accuracies of 75% for both purposes. In short, we presented the determination of lipid signatures as a potential tool for differential diagnosis of sepsis and SIRS and prognosis of these patients.
Fomento	

