

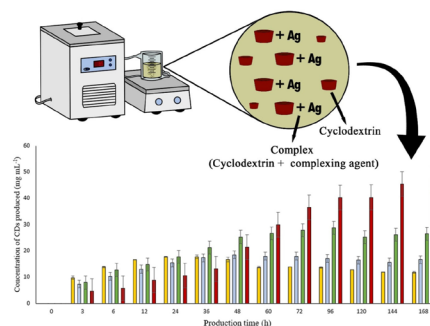
## Artigos/Articles/Artículos

- e-20230105 Uso de agentes complexantes para o aumento na produção direcionada de ciclodextrinas por enzima comercial Toruzyme®

Maria F. A. Aguiar, Vanderson C. Fenelon, Juliane H. Miyoshi, Nathalia M. Valério, Camila S. Mangolim e Graciette Matioli

<http://dx.doi.org/10.21577/0100-4042.20230105>

This study proved that the use of complexing agents in the production of cyclodextrins increases the production of these molecules. Thus increasing the production yield.

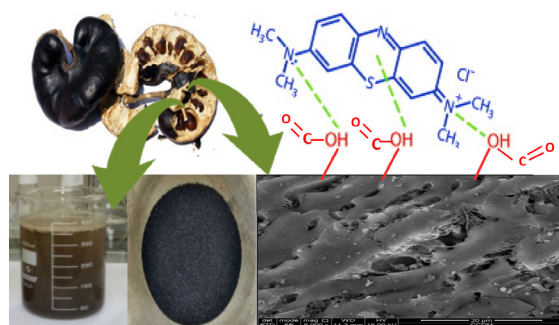


- e-20230106 Adsorção de azul de metileno utilizando carvão ativado preparado a partir da casca do tamboril (*Enterolobium contortisiliquum*)

Francisco A. Silva, Leonardo B. Cantanhede, Izaías S. Marques e Gilvan P. de Figueiredo

<http://dx.doi.org/10.21577/0100-4042.20230106>

Activated charcoal was synthesized from monkfish fruit carcasses using phosphoric acid as an activating agent for adsorption tests of methylene blue dye in aqueous solution. Characterizations of the adsorbent surface were carried out to reveal its adsorptive potential.

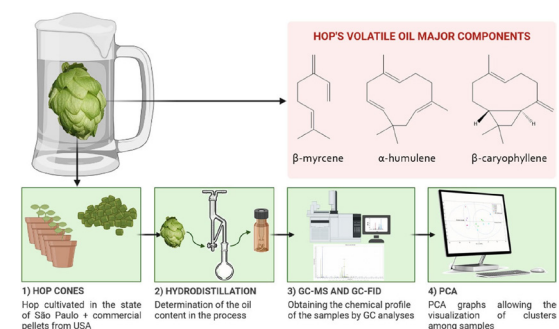


- e-20230109 Análise de óleos voláteis de lúpulo (*Humulus lupulus* L.) Cascade e Chinook cultivados sob clima tropical no estado de São Paulo

Beatriz C. de Souza, Daniele R. Contin, Paulo C. Vieira e Fernando B. Da Costa

<http://dx.doi.org/10.21577/0100-4042.20230109>

This study describes the chemical composition and volatile oil content of Cascade and Chinook hop cultivars grown under tropical climate in São Paulo state during 2020 and 2021, as well as the comparison with commercial pellets using multivariate statistical analyses.

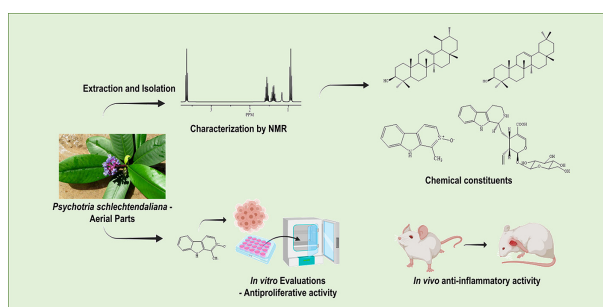


- e-20230110 Chemical constituents and evaluation of antiproliferative and anti-inflammatory activities from *Psychotria schlechtendaliana* (Rubiaceae)

José G. de S. Corrêa, Vagner M. de Moura, Franciele Q. Ames, Mirelli Bianchin, Simone B. S. Sebold, Matheus A. Peixoto, Armando M. Pomini, João E. de Carvalho, Ana L. T. G. Ruiz, Ciomar A. Bersani-Amado and Silvana M. Oliveira Santin

<http://dx.doi.org/10.21577/0100-4042.20230110>

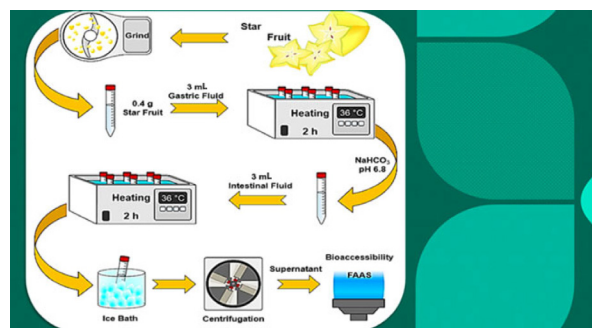
Isolated compounds and *in vivo* anti-inflammatory and antiproliferative activities from aerial parts of *Psychotria schlechtendaliana*.



- e-20230112 Unveiling the nutritional potential of star fruit (*Averrhoa carambola*): *In vitro* bioaccessibility study  
Tatiana L. Kamioka, Alexsandra D. S. Xavier, Alana C. B. Coelho and Angerson Nogueira

<http://dx.doi.org/10.21577/0100-4042.20230112>

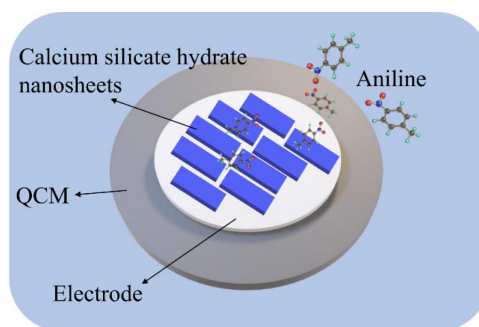
Evaluation of the bioaccessibility of the essential elements in star fruit (*Averrhoa carambola*).



- e-20230113 Facile fabrication of aniline sensor by using commercial calcium silicate hydrate nanosheets as sensing material  
Luyu Wang, Jia Song and Chunyang Yu

<http://dx.doi.org/10.21577/0100-4042.20230113>

Based on quartz crystal microbalance platform, commercial calcium silicate hydrate nanosheets facilely detected aniline vapor.

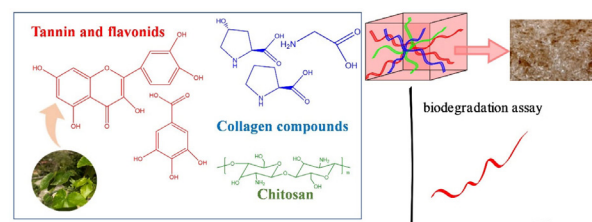


- e-20230114 *Jatropha mollissima* extract with chitosan/collagen scaffolds and their biodegradability evaluation

Venturielso V. Gomes, Ana C. S. de Azevedo, Pedro H. C. de Lima, Albaniza A. Tavares, Djair A. Fialho, Wladimir J. B. de Sousa, Rossemberg C. Barbosa, Suédina M<sup>a</sup> de L. Silva and Marcus V. L. Fook

<http://dx.doi.org/10.21577/0100-4042.20230114>

Chemical compounds involved in the construction of scaffolds, a schematic of scaffold shapes and their optical microscopic analyses, and a representation of a biodegradation assay.



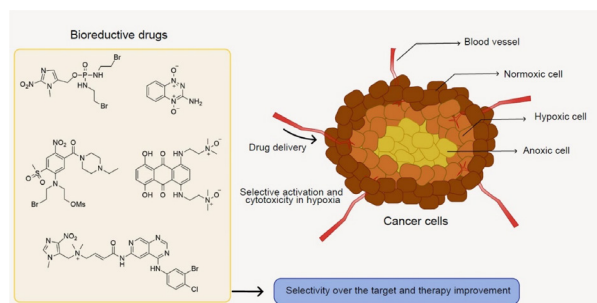
## Revisão/Review/Revisión

- e-20230115 Agentes antineoplásicos biorredutíveis: avanços e desafios após 20 anos

Pedro A. L. Santana, Gabriel V. L. Marques, Mariana F. P. Cortezzi, Ricardo J. Alves e Renata B. de Oliveira

<http://dx.doi.org/10.21577/0100-4042.20230115>

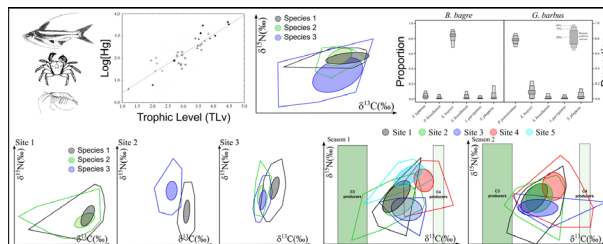
Bioreductive drugs as a strategy for selective activation in hypoxic tumor cells.



- e-20230125 Stable isotopes and mercury as tools to depict aquatic food webs

*Cynara P. Fragoso, Pedro V. Gatts, Ana Paula M. Di Benedetto, Luiz A. Martinelli, Luiz D. de Lacerda and Carlos E. de Rezende*

<http://dx.doi.org/10.21577/0100-4042.20230125>



Stable isotopes and mercury as tools to depict aquatic food webs.

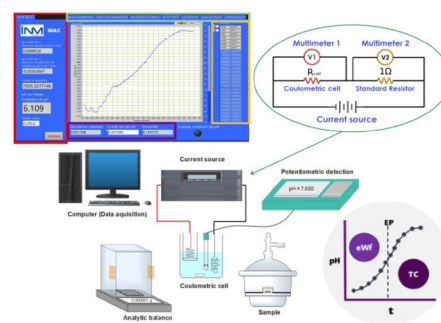
## Nota Técnica/Technical Note/Nota Técnica

- e-20230104 Development of a coulometer at the National Metrology Institute of Colombia: determining the amount of substance content of potassium hydrogen phthalate

*Jessica Smith-Osorio, Andrés Castillo, Henry Torres-Quezada, Andrea P. Sandoval-Rojas and Jesús Ágreda*

<http://dx.doi.org/10.21577/0100-4042.20230104>

A user-friendly and powerful software has been developed to assemble a coulometer, making it suitable for using the recently developed theoretical titration curve to determine the amount of substance content of potassium hydrogen phthalate.

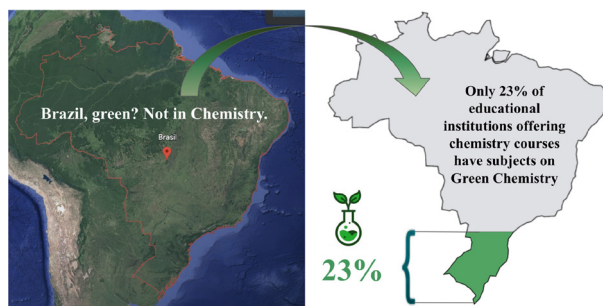


## Educação/Education/Educación

- e-20230117 A adoção da Química Verde no ensino superior brasileiro  
*Carlos R. S. Vaz, Gildo Giroto Junior e Julio C. Pastre*

<http://dx.doi.org/10.21577/0100-4042.20230117>

In Brazil, without a legislation that collaborates for its insertion, Green Chemistry suffers to be part of the contents studied and of the curricular matrices of higher education courses.



## Assuntos Gerais/General Subject/Asuntos Generales

- e-20230111 A química e a sífilis: um percurso histórico  
*Rodrigo R. C. Silva e Carlos A. L. Filgueiras*

<http://dx.doi.org/10.21577/0100-4042.20230111>

An original box of peanut oil suspension of Iodobisman ampoules from the early 20<sup>th</sup> century. The drug, containing BiOI, or bismuthyl iodide, was produced in Belo Horizonte and widely used against syphilis for many years. (Fundação Ezequiel Dias (Funed), Belo Horizonte, MG).

