

Molecular Omics

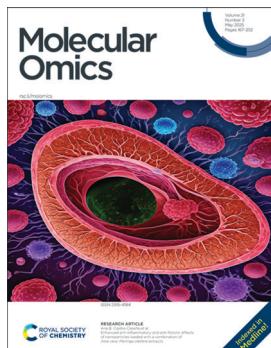
Research and reviews in omic sciences, including genomics, proteomics, transcriptomics, metabolomics, glycomics and lipidomics

rsc.li/molomics

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2515-4184 CODEN MOOMAW 21(3) 167–252 (2025)



Cover

See Ana B. Castro-Ceseña et al., pp. 185–201.

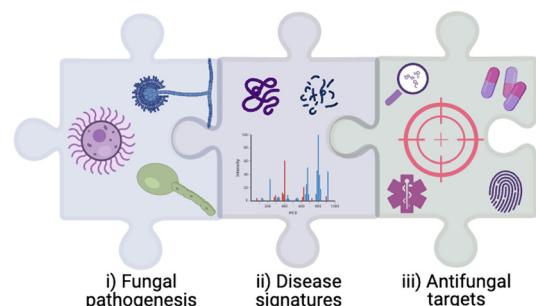
Image reproduced by permission of Gabriela Irene Carballo López from *Mol. Omics*, 2025, 21, 185.

REVIEW

173

Revealing the dynamics of fungal disease with proteomics

Mariana Sa, Mayara da Silva, Brianna Ball and Jennifer Geddes-McAlister*

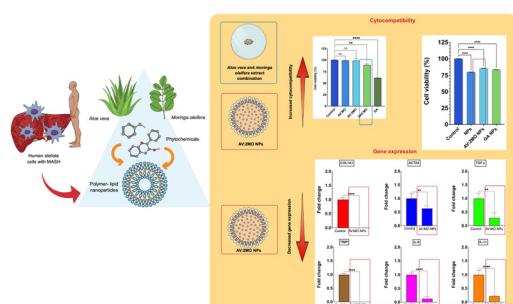


RESEARCH ARTICLES

185

Enhanced anti-inflammatory and anti-fibrotic effects of nanoparticles loaded with a combination of *Aloe vera*–*Moringa oleifera* extracts

Gabriela I. Carballo-López, Jhordan Ojeda-González, Kevin D. Martínez-García, Karla E. Cervantes-Luevano, Aldo Moreno-Ulloa and Ana B. Castro-Ceseña*



Royal Society of Chemistry approved training courses

Explore your options.
Develop your skills.
Discover learning
that suits you.

**Courses in the classroom,
the lab, or online**

Find something for every
stage of your professional
development. Search our
database by:

- subject area
- location
- event type
- skill level

Members get at least 10% off

Visit rsc.li/cpd-training

**SAVE
10%**



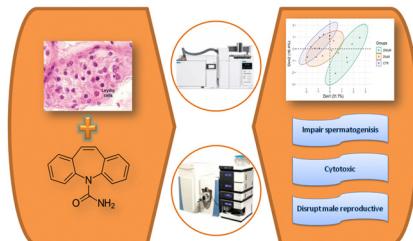
RESEARCH ARTICLES

202

Unmasking the lipid landscape: carbamazepine induces alterations in Leydig cell lipidome

Inês Nobre, Inês M. S. Guerra, Marisa Pinho, Ana D. Martins, Laura Goracci, Stefano Bonciarelli, Tânia Melo, Pedro Domingues, Artur Paiva, Pedro F. Oliveira and M. Rosário Domingues*

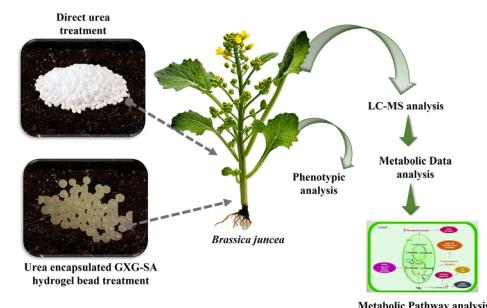
Unmasking the Lipid Landscape: Carbamazepine's Impact on Leydig Cells



215

Unraveling the phenotypic and metabolic responses induced by urea-encapsulated hydrogel beads on *Brassica juncea* (L.) Czern & Coss

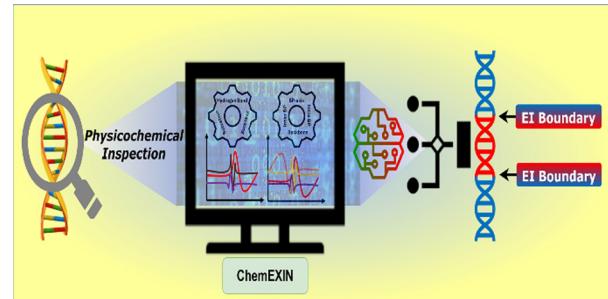
Muthumari Balakrishnan, Vignesh Kumar Balasubramanian, Kavitha Murugan, John Praveen Kumar John Kennedy, Subashri Dhanasekaran, Shih-Feng Fu, Shang-Tse Ho, Jothi Basu Muthuramalingam* and Jui-Yu Chou*



226

Exon–intron boundary detection made easy by physicochemical properties of DNA

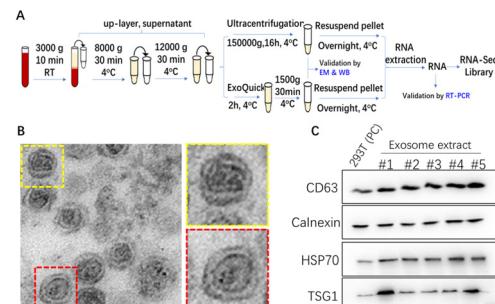
Dinesh Sharma, Danish Aslam, Kopal Sharma, Aditya Mittal and B. Jayaram*



240

Transcriptome profiling of serum exosomes by RNA-Seq reveals lipid metabolic changes as a potential biomarker for evaluation of roxadustat treatment of chronic kidney diseases

Ru Zhou, YaXuan Zhen, Hualin Ma, Zhen Wang, LiXia Liu, Xinzhou Zhang* and Baochun Guo*



RETRACTION

250

Retraction: Tetracycline-controllable artificial microRNA-HOTAIR + EZH2 suppressed the progression of bladder cancer cells

Yincong Chen, Haibiao Xie, Yifan Zou, Xiulan Lai, Lian Ma, Yuchen Liu* and Jianfa Li*

