

# Molecular Omics

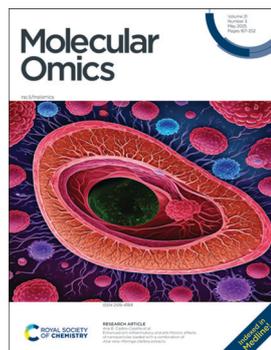
Research and reviews in omic sciences, including genomics, proteomics, transcriptomics, metabolomics, glycomics and lipidomics

[rsc.li/molomics](https://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

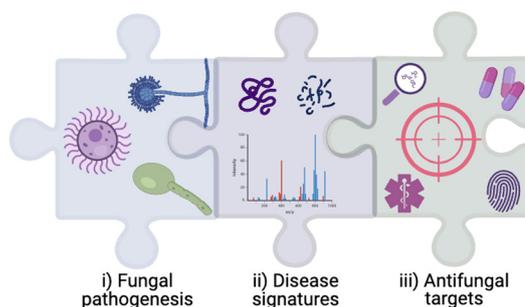
See Ana B. Castro-Ceseña *et al.*, pp. 185–201.  
Image reproduced by permission of Gabriela Irene Carballo López from *Mol. Omics*, 2025, 21, 185.

## REVIEW

173

### Revealing the dynamics of fungal disease with proteomics

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

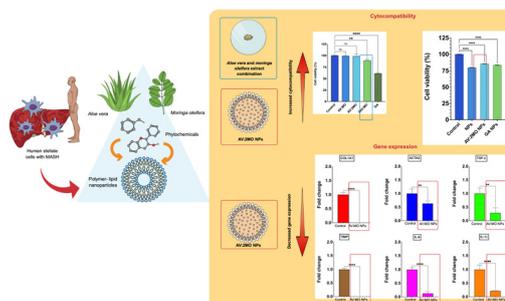


## RESEARCH ARTICLES

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](https://rsc.li/cpd-training)



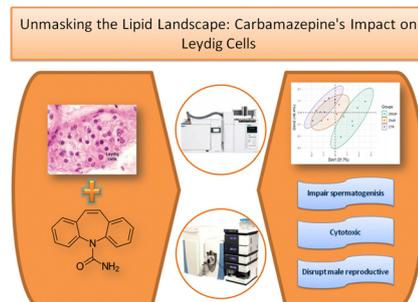
**SAVE  
10%**



202

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

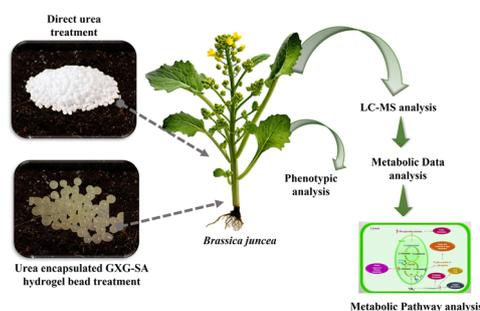
Inês Nobre, Inês M. S. Guerra, Marisa Pinho, Ana D. Martins, Laura Goracci, Stefano Bonciarelli, Tânia Melo, Pedro Domingues, Artur Paiva, Pedro F. Oliveira and M. Rosário Domingues\*



215

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

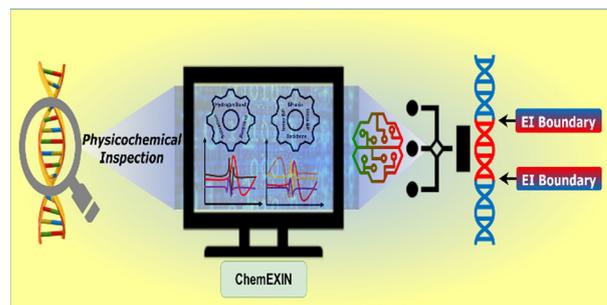
Muthumari Balakrishnan, Vignesh Kumar Balasubramanian, Kavitha Murugan, John Praveen Kumar John Kennedy, Subashri Dhanasekaran, Shih-Feng Fu, Shang-Tse Ho, Jothi Basu Muthuramalingam\* and Jui-Yu Chou\*



226

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

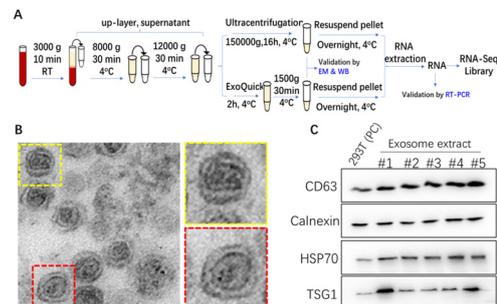
Dinesh Sharma, Danish Aslam, Kopal Sharma, Aditya Mittal and B. Jayaram\*



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\*

Open Access Article. Published on 15 May 2025. Downloaded on 6/3/2026 4:53:08 PM.  
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

