

OMICS Journals are welcoming Submissions

OMICS International welcomes submissions that are original and technically so as to serve both the developing world and developed countries in the best possible way.

OMICS Journals are poised in excellence by publishing high quality research. OMICS International follows an Editorial Manager® System peer review process and boasts of a strong and active editorial board.

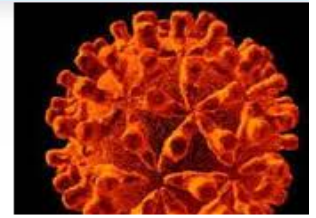
Editors and reviewers are experts in their field and provide anonymous, unbiased and detailed reviews of all submissions. The journal gives the options of multiple language translations for all the articles and all archived articles are available in HTML, XML, PDF and audio formats. Also, all the published articles are archived in repositories and indexing services like DOAJ, CAS, Google Scholar, Scientific Commons, Index Copernicus, EBSCO, HINARI and GALE.

For more details please visit our website:

<http://omicsonline.org/Submitmanuscript.php>



ISSN-2155-9929



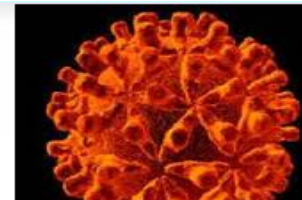
Major Research Interests

Ding He (PhD)

Department of Chemistry and Biochemistry

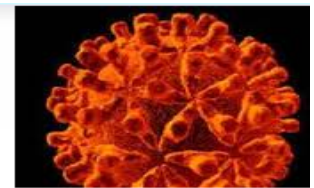
Florida International University, USA

University of Georgia, USA (current address)



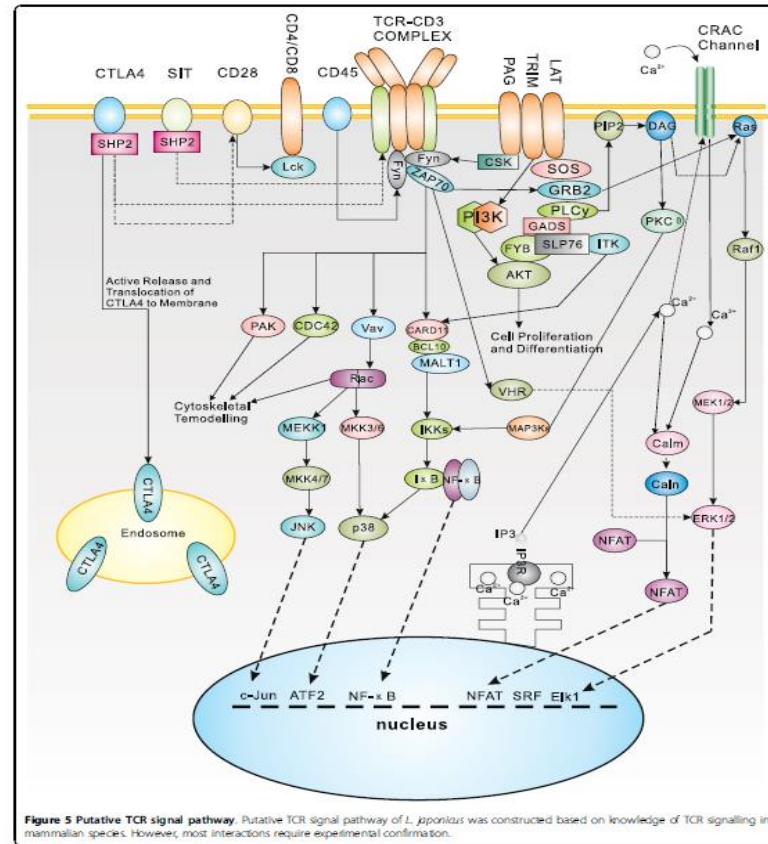
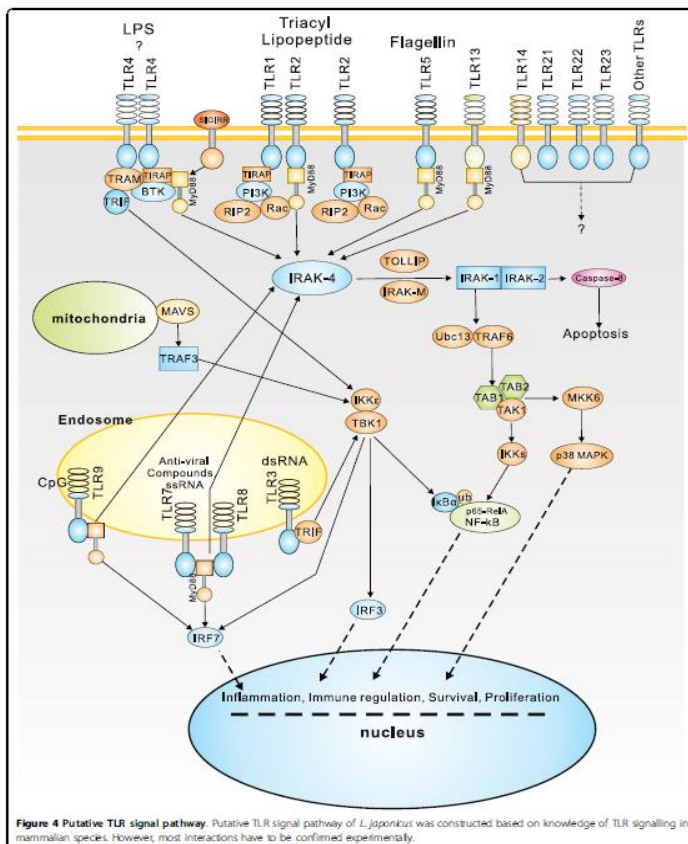
Major Research Interests

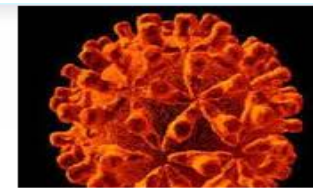
1. Transcriptomics and Bioinformatics;
2. Using multi-techniques for novel biomarker development, and the application of traditional biomarker for tracing natural or anthropogenic organic matter source;
3. Using GC-ir-MS analysis to measure specific isotopes (mainly $^{13}\text{C}/^{12}\text{C}$ and $^2/^1\text{H}$) of biomarkers to trace source.



1. Transcriptomics and Bioinformatics

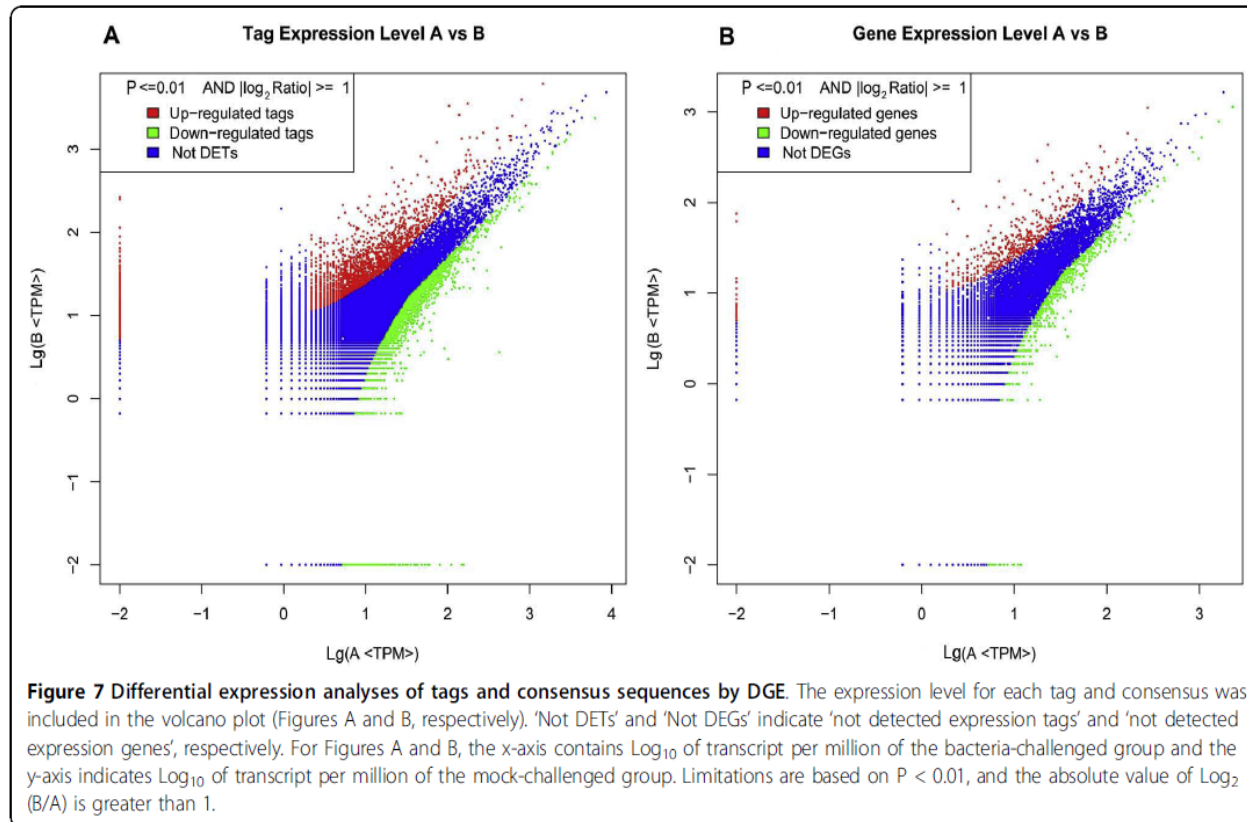
Putative TLR and TCR pathways of *L. japonicus* based on new 454 sequencing

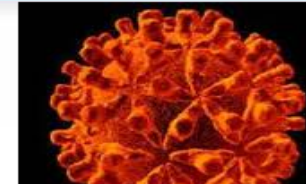




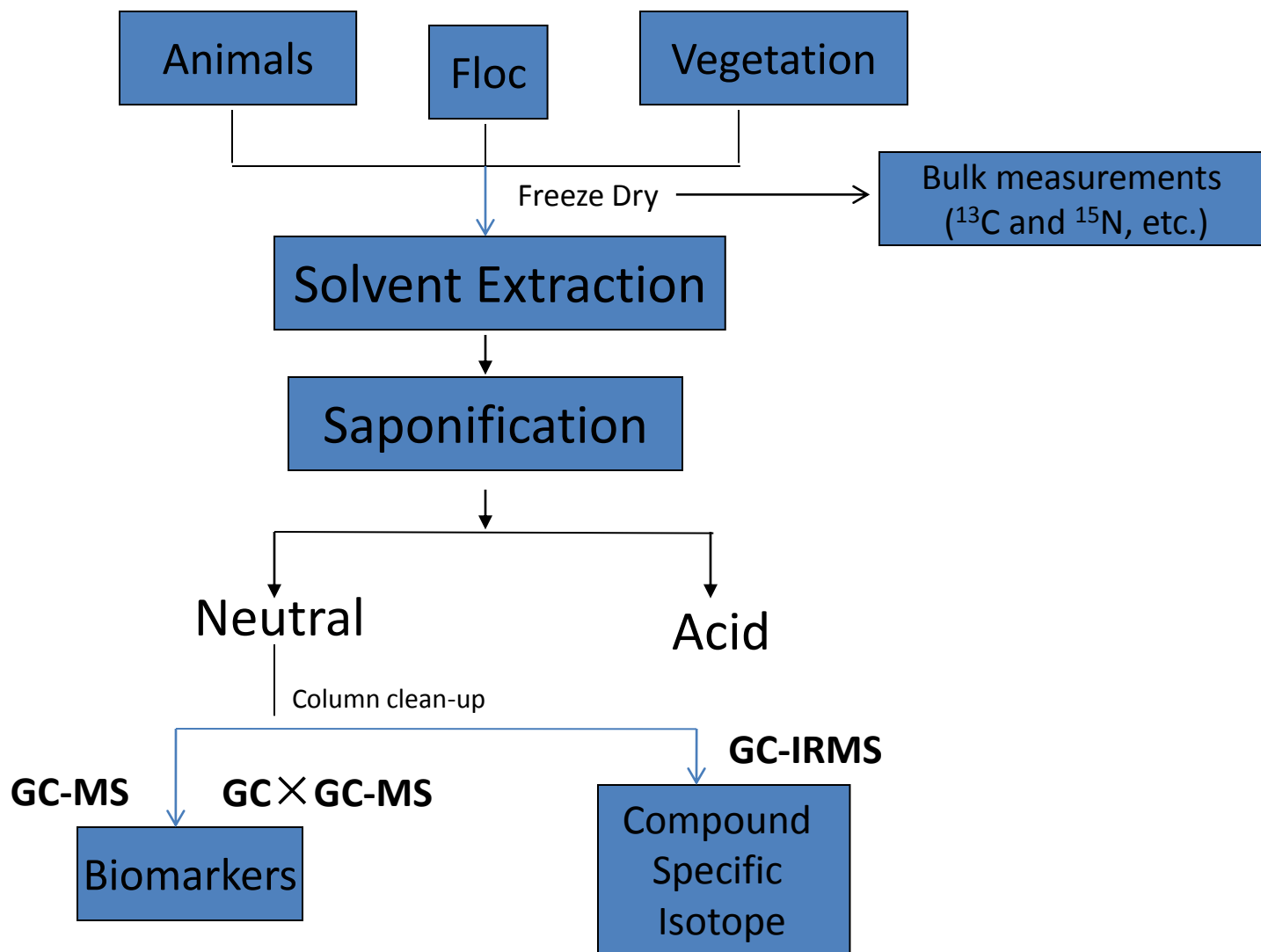
1. Transcriptomics and Bioinformatics

Different expression analyses of stages and consensus sequences in *L. japonicus* under bacteria-challenge.





2. Biomarkers: Analytical Methods





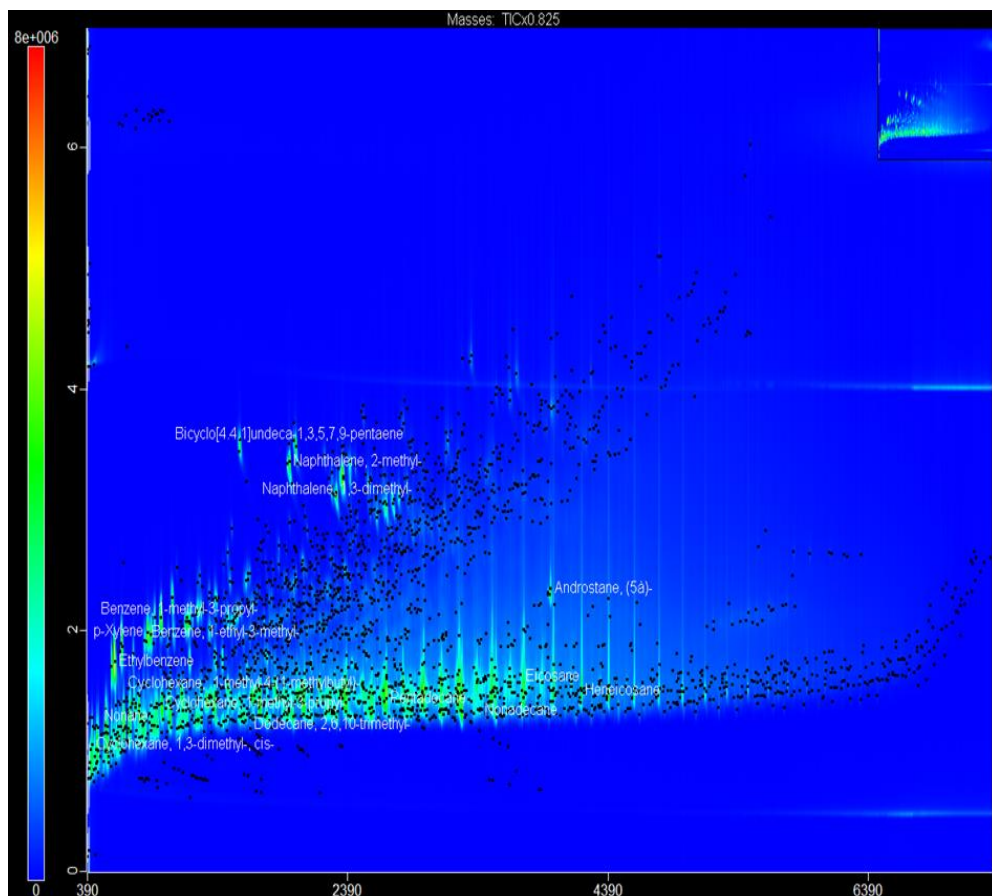
2. Common biomarkers to trace source

- n*-alkanes
- fatty acid
- Highly brached isoprenoid
- hopanoid
- sterol
- PAHs
- diterpenoid
- triterpenoid
- ...



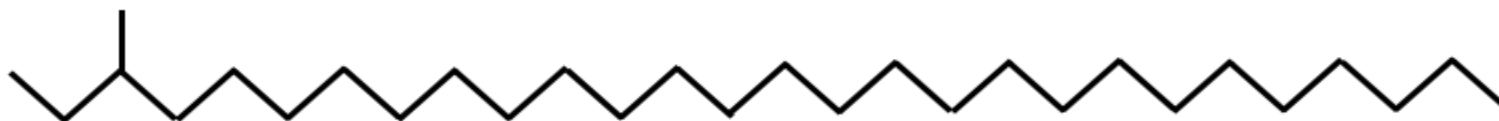
2. Common biomarkers to trace source (examples)

Raw data measured by GC×GC-TOFMS from a really complex mixture (crude oil for this case)

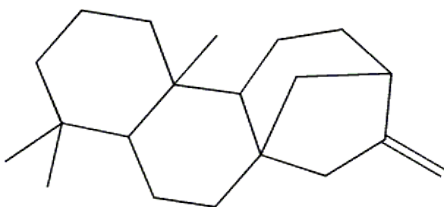




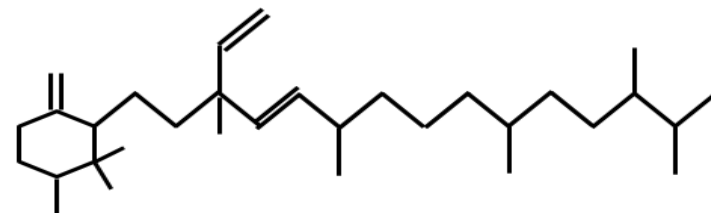
2. Common biomarkers to trace source



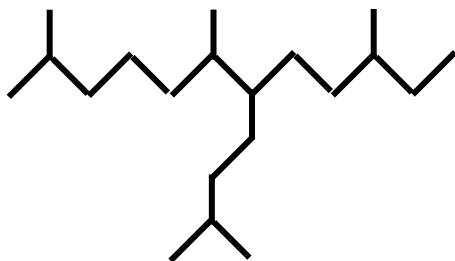
Example of an anteiso alkane: 3-methyloctacosane
(C₂₉ branched alkane)



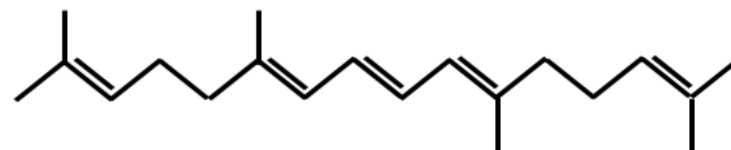
ent-kaur-16-ene



Example of a Botryococcene



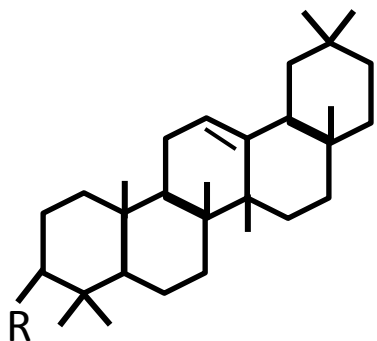
Example of C₂₀ Highly Branched Isoprenoid (HBI)



2,6,11,15-tetramethyl-hexadeca-2,6,8,10,14-pentaene

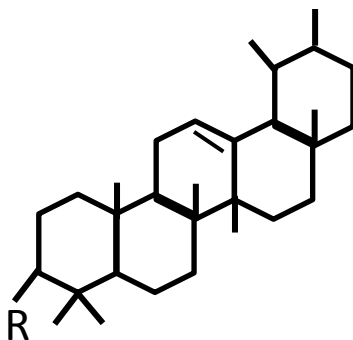


2. Common biomarkers to trace source



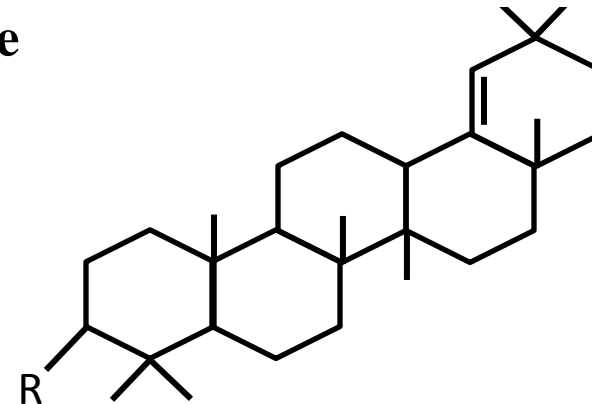
Olean-12

- R = O : β -amyrinone
- R = OH: β -amyrinol
- R = C₂H₃O₂: β -amyrinyl acetate
- R = C₄H₇O₂: β -amyrinyl butanoate



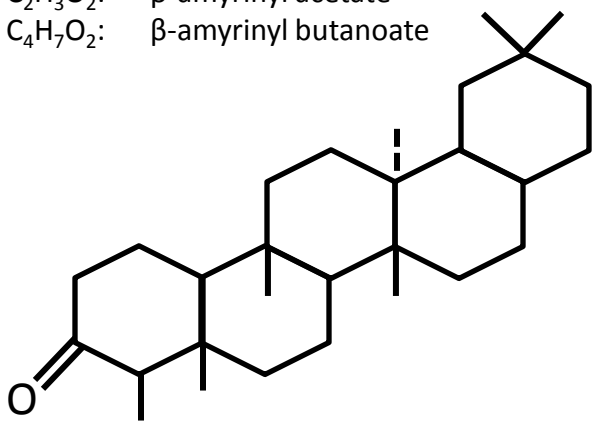
Urs-12

- R = O : α -amyrinone
- R = OH: α -amyrinol

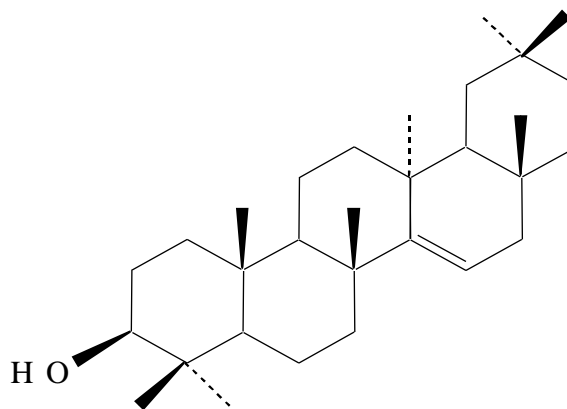


Olean-18 (germanic-)

- R = O : germanicone
- R = OH: germanicol
- R = C₂H₃O₂: germanicyl acetate
- R = C₃H₅O₂: germanicyl propionate
- R = C₄H₇O₂: germanicyl butanoate
- R = C₅H₉O₂: germanicyl pentanoate
- R = C₆H₁₁O₂: germanicyl hexanoate



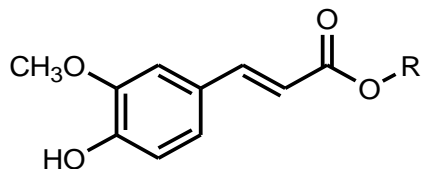
Friedelan-3-one



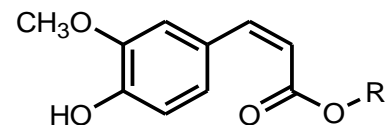
Taraxerol



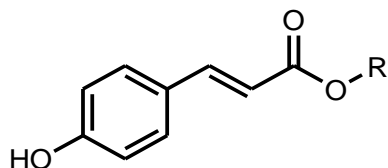
2. Biomarkers in Cattails (examples)



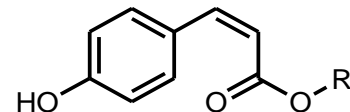
I. E-Ferulic acid, R=H
Alkyl E-ferulates, R=(CH₂)_nCH₃, n=16-28



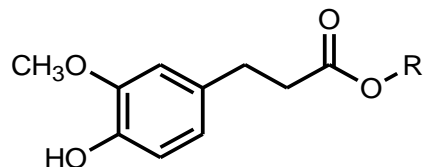
II. Z-Ferulic acid, R=H
Alkyl Z-ferulates, R as in I



III. E-*p*-coumaric acid, R=H
Alkyl E-*p*-coumarates, R as in I



IV. Z-*p*-coumaric acid, R=H
Alkyl Z-*p*-coumarates, R as in I

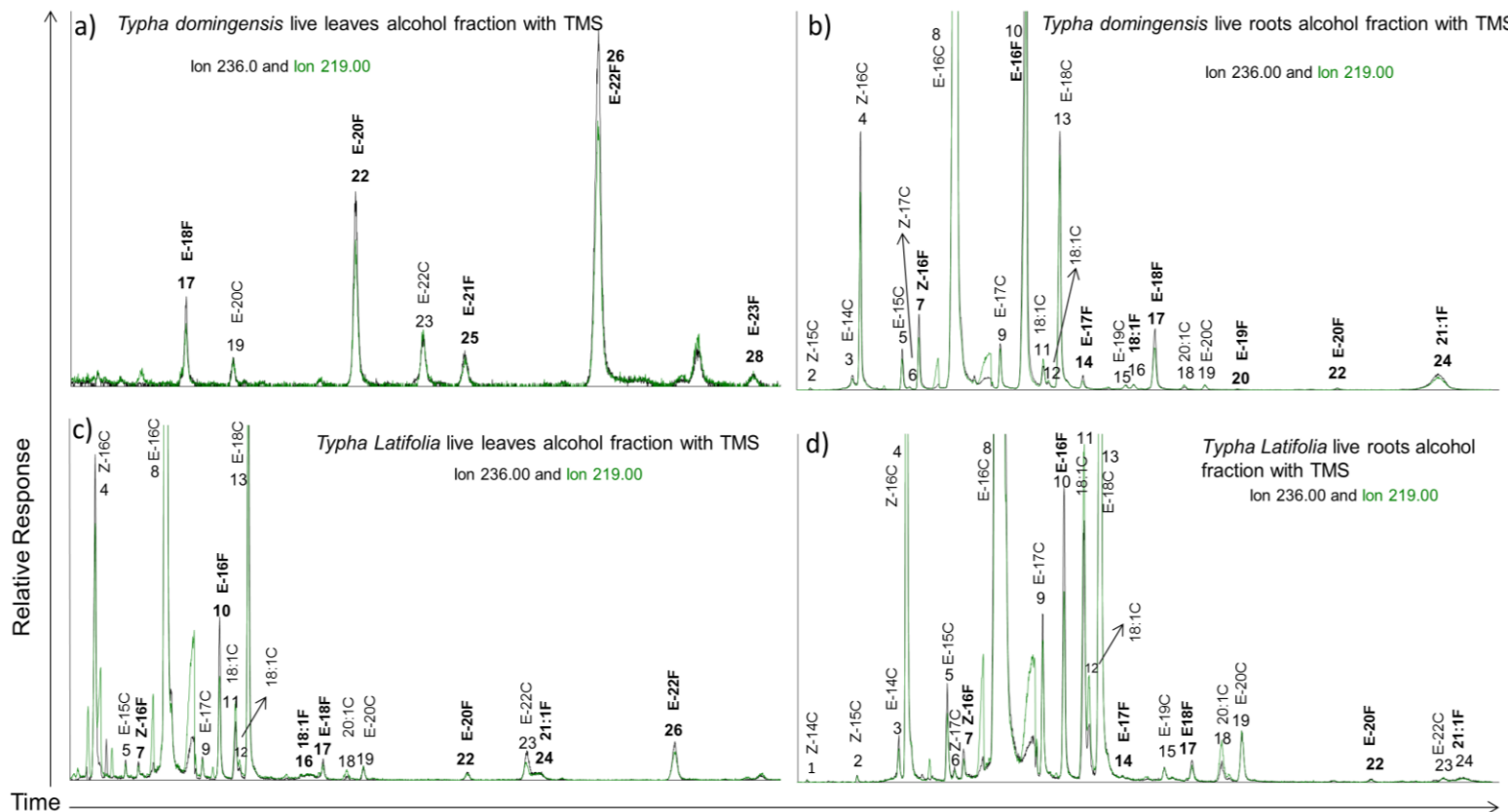


V. Alkyl dihydroferulates
R=(CH₂)_nCH₃, n=20-24

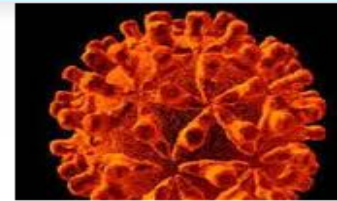
Chemical structures of the ferulic and *p*-coumaric acids and esters.



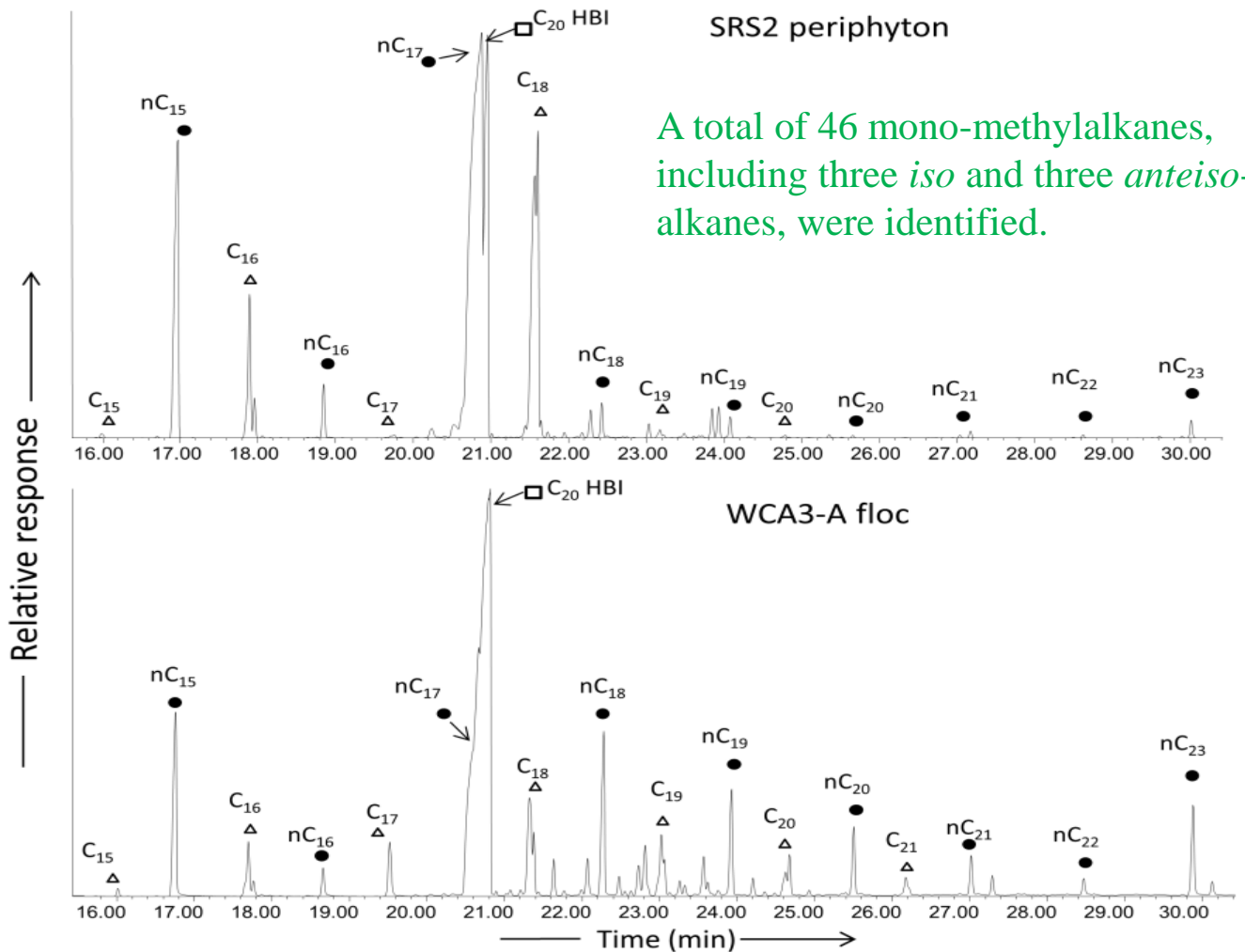
2. Biomarkers in Cattails (examples)

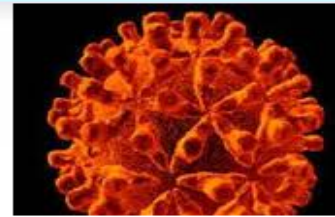


Note: Alkyl-p-coumarates and alkyl-ferulates were listed by elution order from no. 1 to 34. Alkyl-ferulates and alkyl-p-coumarates are marked by numbers, E-nF (n = number of alcohol moieties) means trans-n-alkyl-ferulate, E-nC (n = number of alcohol moieties) means trans-n-alkyl-coumarate.



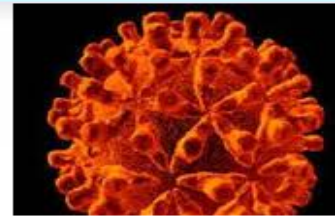
2. Biomarkers in periphyton and floc (examples)



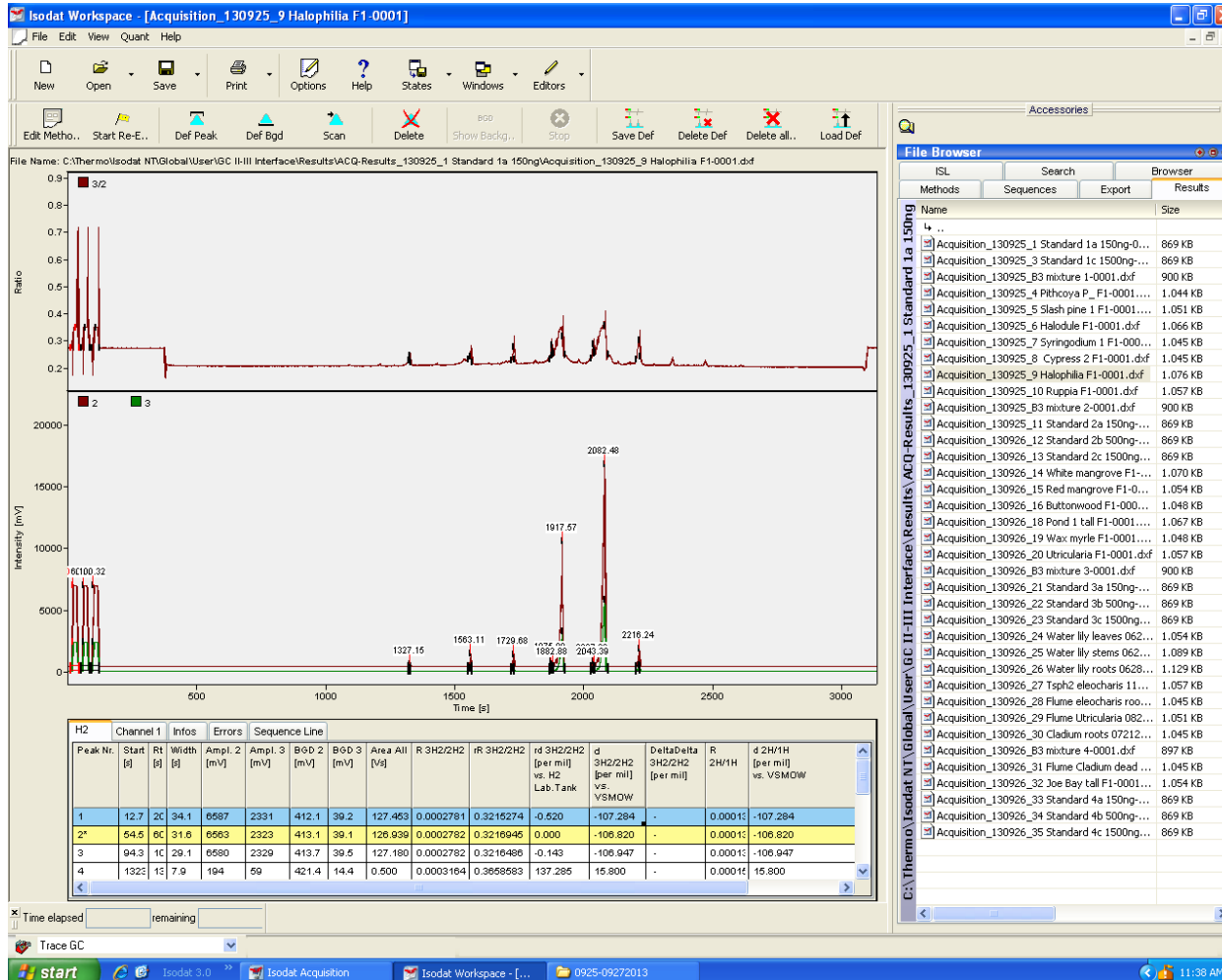


3. Compound specific isotopes for biomarkers

- Highly specialized instrumental technique used to ascertain the relative ratio of light stable isotopes of **carbon** ($^{13}\text{C}/^{12}\text{C}$), **hydrogen** ($^2\text{H}/^1\text{H}$), nitrogen ($^{15}\text{N}/^{14}\text{N}$) or oxygen ($^{18}\text{O}/^{16}\text{O}$) in individual compounds separated from often complex mixtures of components.
- They can provide organic matter source information and direct information such as the primary **productivity** and **hydrology** etc.



3. Examples of raw data generated from a GC-PirMS



Molecular Biomarkers & Diagnosis Related Journals

- [Advancements in Genetic Engineering](#)
- [Journal of Molecular and Genetic Medicine](#)



For Upcoming Conferences

➤ <http://www.conferenceseries.com/>

