Effects of early diagenesis on the isotopic signature of wood (δ13C and δ15N): incubation in aquatic microcosm
Romain Tramoy, Thanh Thuy Nguyen Tu, Veronique Vaury, Mathieu Sebilo, Laurence Millot-Cornette, Céline Roose-Amsaleg, Johann Schnyder

To cite this version:

HAL Id: insu-01624744
https://hal-insu.archives-ouvertes.fr/insu-01624744
Submitted on 30 Oct 2017

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L’archive ouverte pluridisciplinaire HAL, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d’enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.
**Conclusions**

- **$^{13}$C values of organic matter have lower variability than $^{15}$N values**, which confirms its interest as a source and environment indicator.

- Without invalidating the use of $^{15}$N as a paleoenvironmental marker, this study shows that early diagenesis leads to the integration of isotopic compositions from multiple environmental origins that should be addressed when interpreting $^{15}$N$_{org}$ in soils and sediments.