

## Bacteria biomarkers included in kerogens

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Organic material in sediments is important because it provide us information about biological activities and surface environment at that time. So far, solvent-extracted compounds such as hydrocarbons, hopanoids, and steroids have been analyzed in detail. On the other hand, insoluble macromolecules (kerogens) have not been analyzed enough. In this study, we use selective chemical degradation method for elucidating entities and origin of kerogens, and try to get an information about original life by extracting biomarker-derived molecules.