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Interactive comment on “Confocal Raman microscopy as a tool to describe different mineral and organic phases at high spatial resolution within marine biogenic carbonates: case study on *Nerita undata* (Gastropoda, Neritopsina)” by G. Nehrke and J. Nouet

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This paper (Confocal Raman microscopy as a tool to describe different mineral and organic phases at high spatial resolution within marine biogenic carbonates: case study on *Nerita undata* (Gastropoda, Neritopsina) is mainly dedicated to the ability of Raman spectroscopy to analyse of biominerals. The authors have detected some "polyenes" in the shell. Similar components have been already described in mollusc shells: Hede-

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gaard et al. 2006, Trinkler et al. 2011. Beta carotene is a polyene compound, and it is well known that Raman is very sensitive to carotene.

Do the authors believe that such components are preserved in fossil shells, and are possible palaeoproxies?

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