

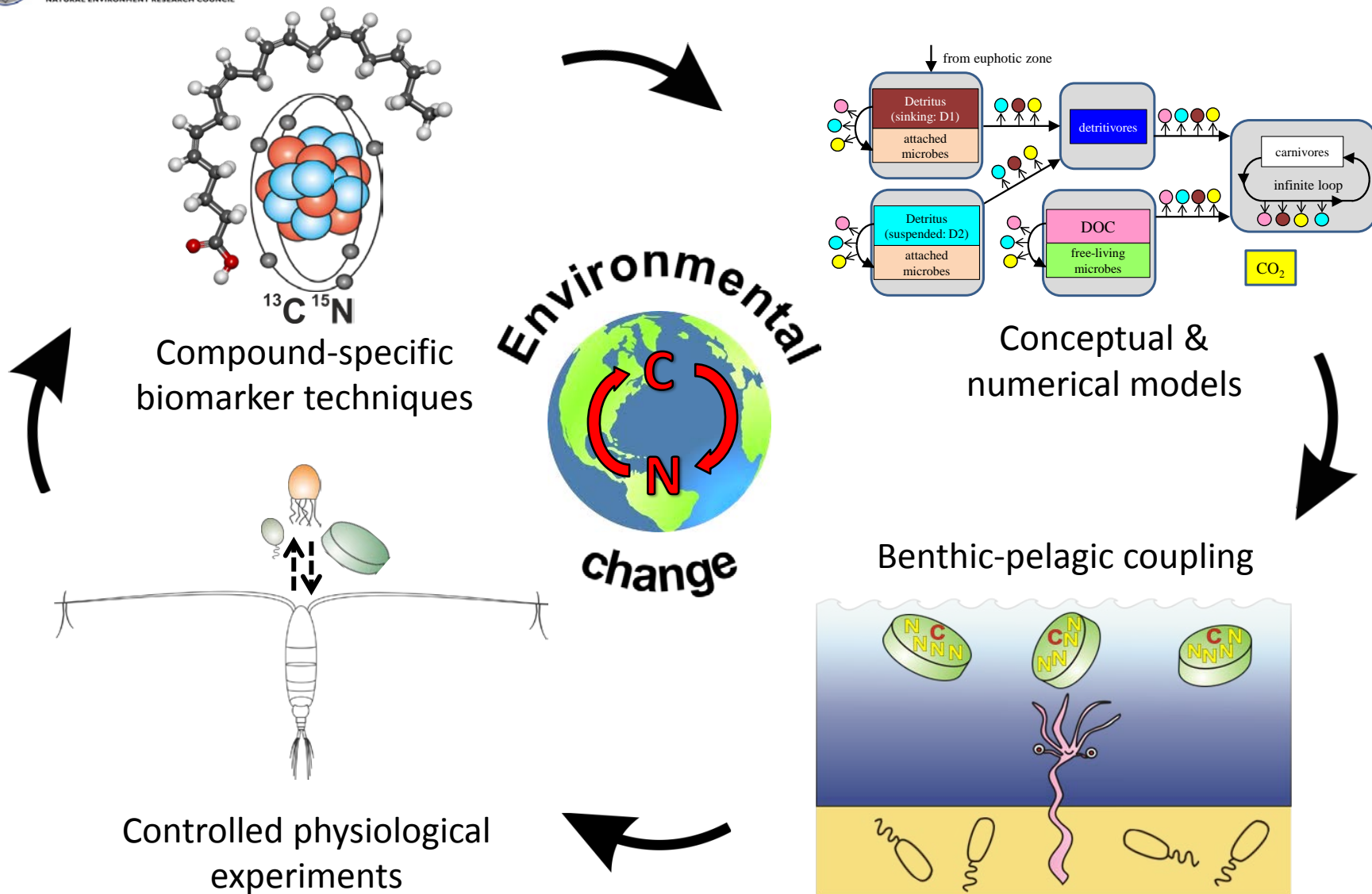
Daniel Mayor

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Interests & techniques:

Elemental cycling in a changing environment



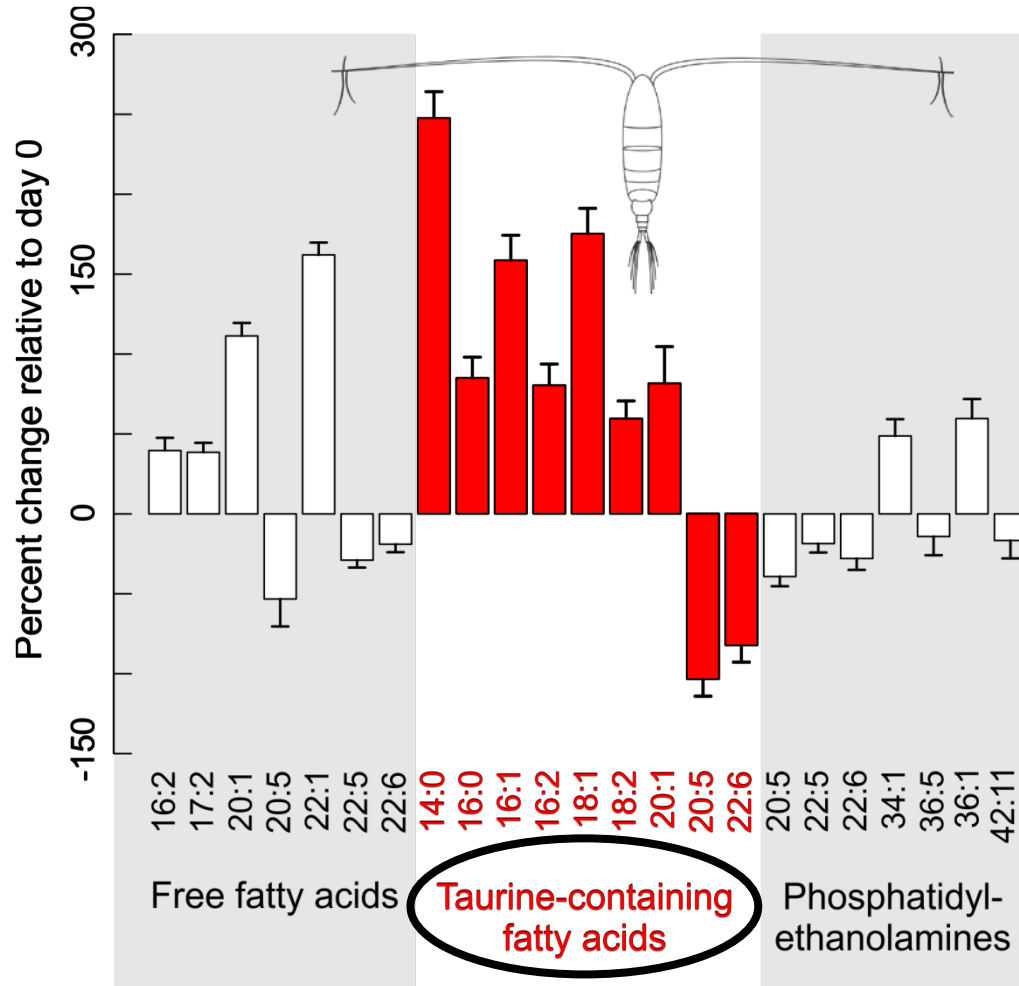
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Ongoing/future activities/opportunities

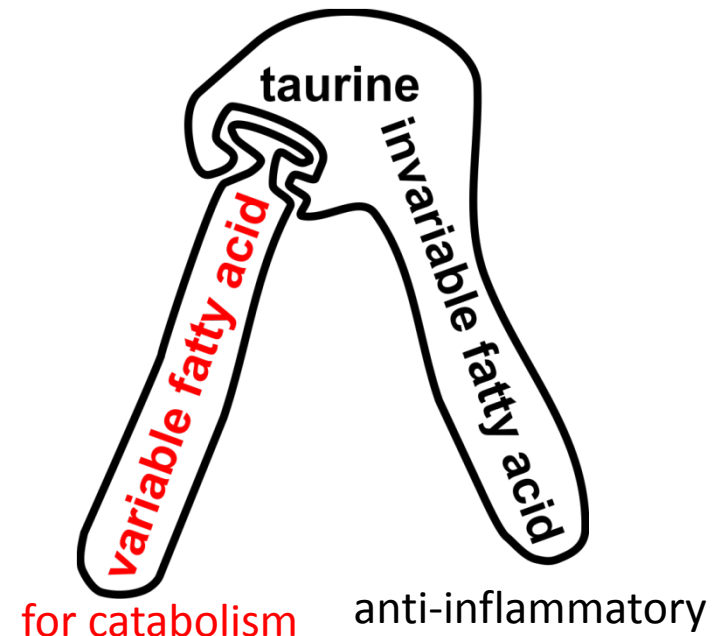
Calanus & climate change: metabolomics



UNIVERSITY OF BIRMINGHAM

Taurine-containing fatty acids

fat emulsifier & anti-oxidant



Mayor et al., In Revision, *Nat. Sci. Rep.*

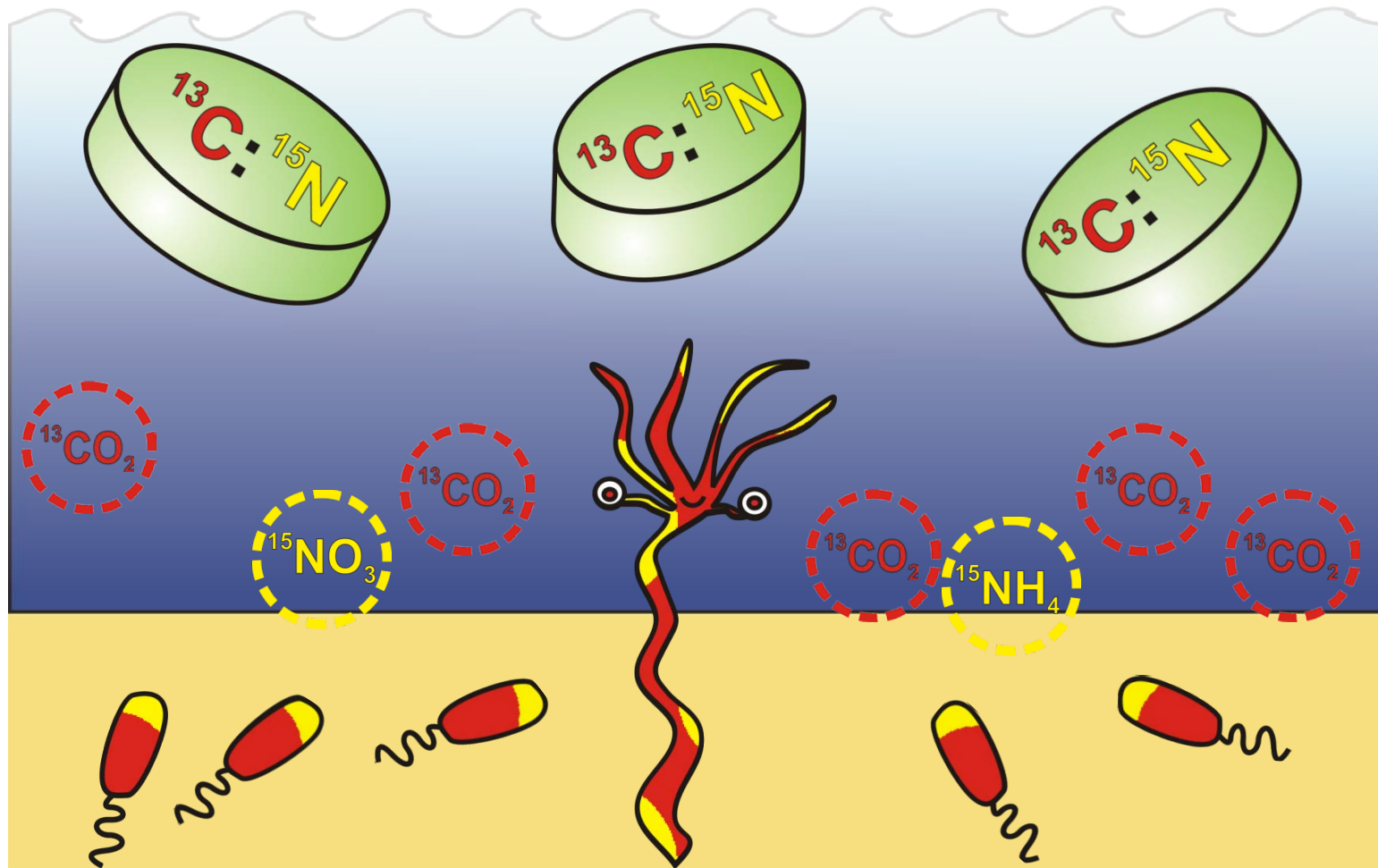
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Ongoing/future activities/opportunities

How resource quantity & quality affects rates & pathways of C+N cycling



Mayor et al., 2021 *ISME J*; Mayor et al., 2012 *PLoS ONE*; Mayor et al., *in prep.*

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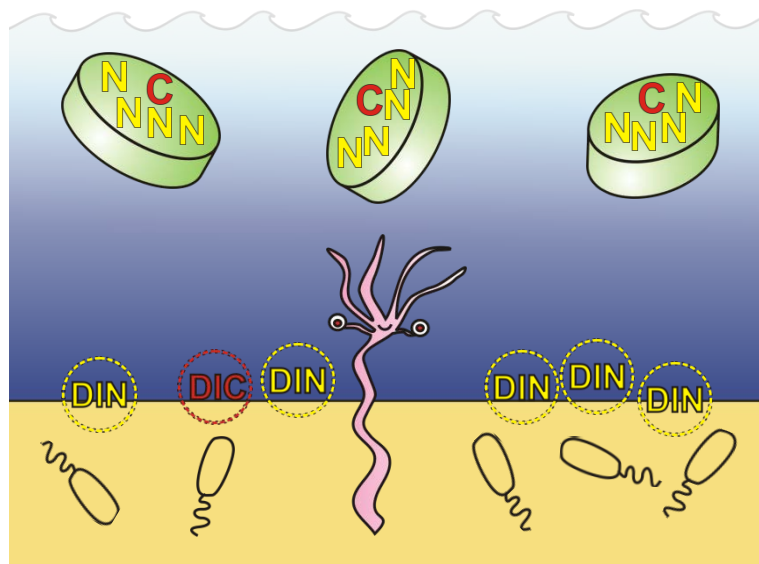


Ongoing/future activities/opportunities



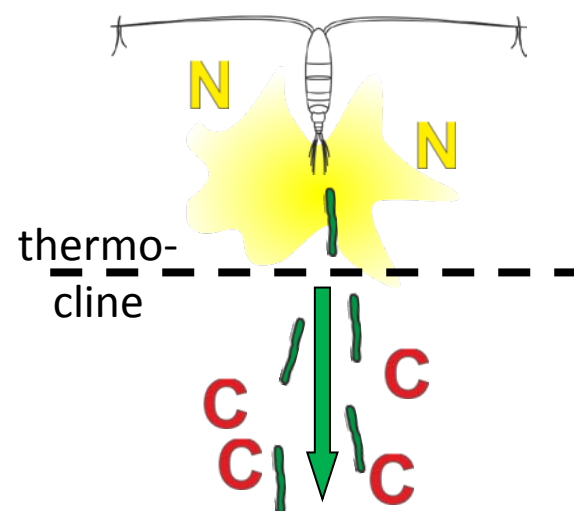
2013-2017

**Biogeochemistry, macronutrient
& C cycling in the benthic layer**



**How does the C:N of uptake and
remineralization vary with season &
sediment type?**

**C & Nutrient Dynamics & Fluxes Over
Shelf Systems (CANDYFLOSS)**



**Do zooplankton decouple C & N cycles by
excreting N above the thermocline and
exporting C as faecal pellets below it?**

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Ongoing/future activities/opportunities

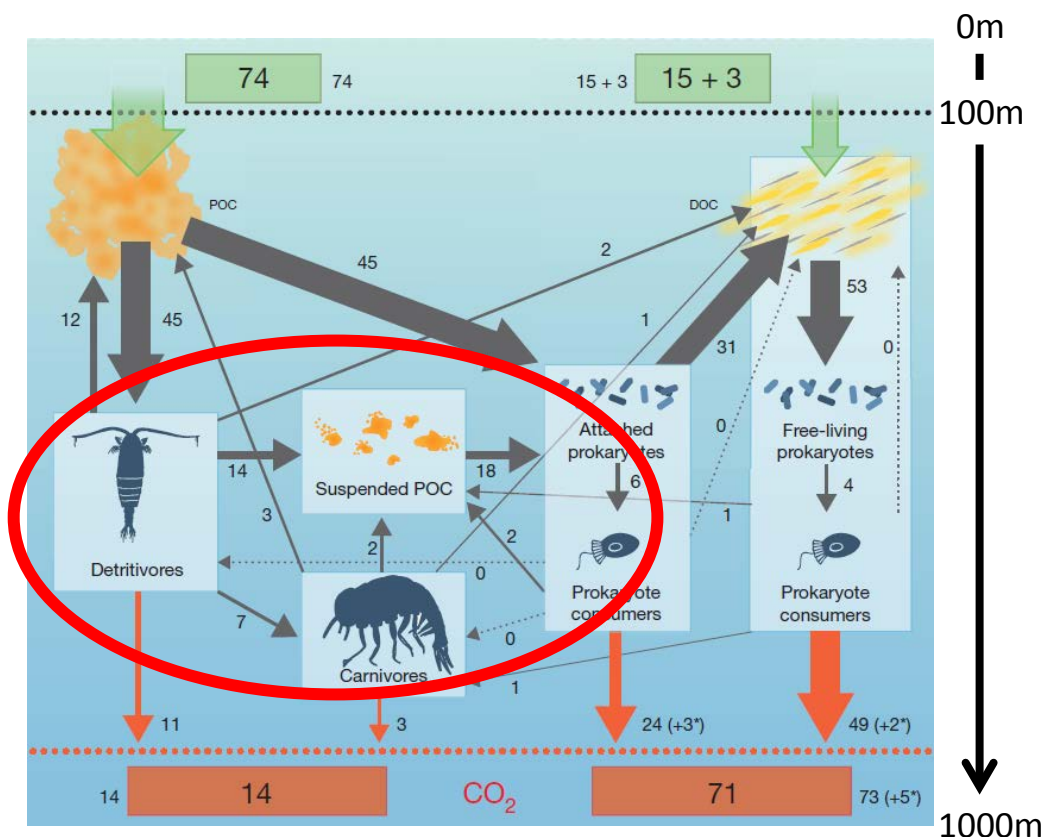
Mesopelagic biogeochemistry



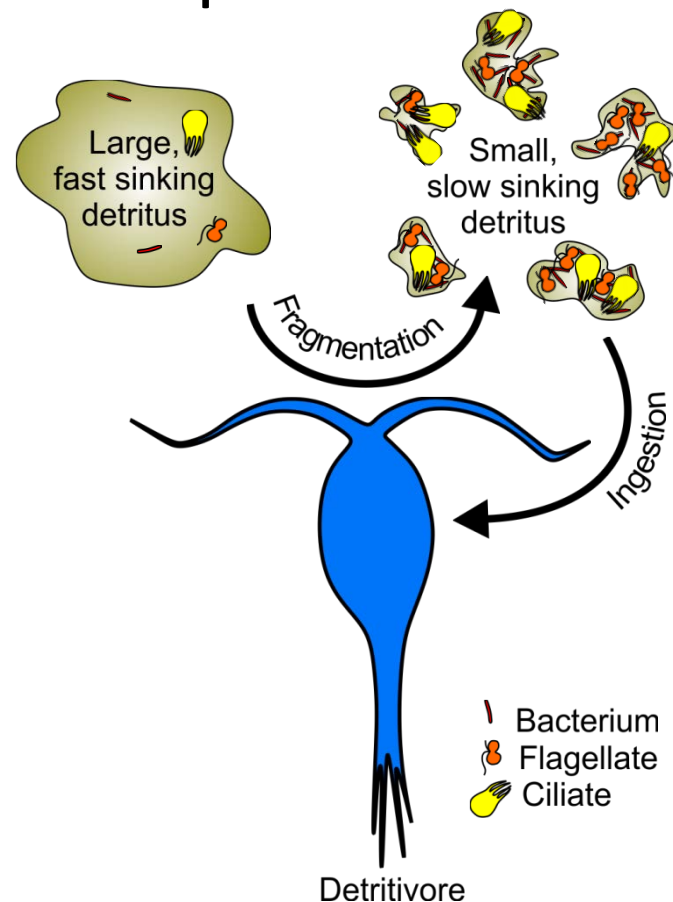
2017-2021



How do temperature, O_2 and 1° production affect the depth of remineralization?



Giering et al., 2014 *Nature*



'Microbial gardening'
Mayor et al., 2014 *BioEssays*