

## **Oxidative Stability of Oil Bodies**

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Oilseeds package oil during seed development into organelles (1-3  $\mu\text{m}$  diameter) called oil bodies. The result is naturally encapsulated oil that is stable to oxidation *in-vivo* during seed storage, and that is efficiently metabolised during seed germination. Our group has recovered oil bodies from mature seeds, and, for the first time, measured their stability to oxidation *ex-vivo*, dispersed in a continuous aqueous phase.

Compared with a range of equivalent processed emulsions, oil bodies are relatively stable to oxidation. The talk will describe the experiments that we have carried out, identify lipid groups that are susceptible to oxidation in these emulsions, and explore the possible explanations for the relative stability of oil bodies.