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## **ATA Scientific – Travel Award Runner up 2011**

### **What I consider the most interesting or significant discovery/development during the 12 months in the field of science that I work.**

By Emma Rath (PhD student, University of Sydney, Pharmacy and ANSTO, National Deuteration Facility).

I am studying a drug molecule called HAMLET that kills every type of cancer in the laboratory. It has the mind-blowing potential to be a broad spectrum anti-cancer drug. But before we can tweak it so that it kills every cancer cell in the body like it does in the laboratory, we need to know which component of HAMLET is actually doing the killing. Is it the intriguing, versatile, moonlighting milk protein component, or is it the boring old, everyday lipid oil component? This year, after 15 years of not knowing, it was conclusively proven that the innocuous, unassuming lipid oil is the highly toxic component that is killing every cancer cell. Stay tuned for exciting new developments from this original and deadly HAMLET anti-cancer drug!

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