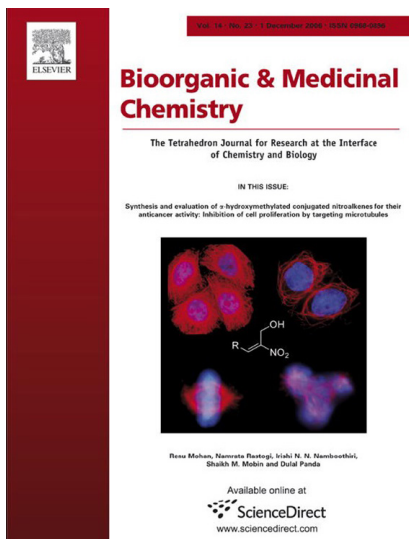
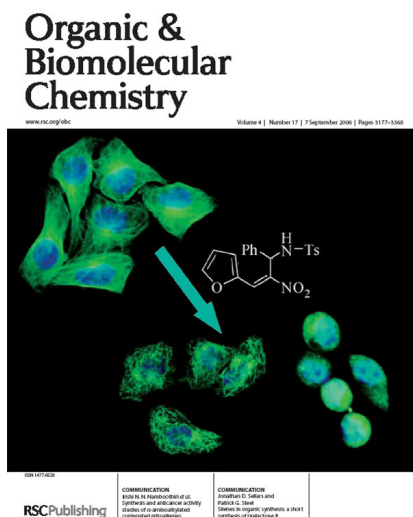


# Anticancer activity of $\alpha$ -functionalised nitroalkenes



## $\alpha$ -Functionalised nitroalkenes

- Small multi-functional molecules with high potential in synthesis and biology
- Synthesised through one-pot, multi-component reactions at room temperature
- Inhibit HeLa cell proliferation by binding to tubulins and depolymerising microtubules at low micromolar concentrations
- Bind to tubulin at a site distinct from the vinblastine and colchicine binding sites and induce conformational changes in the tubulin
- Promising lead compounds for cancer therapy