

NOTE: Abstracts public availability on June 30, 2008; rooms and times subject to change.

## RAFT, a powerful tool to bioactive peptide-polymer conjugates

## **POLY 543**

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A versatile synthesis platform is described to access highly-defined peptide-polymer conjugates by a convenient and cost-effective RAFT polymerization route. The CTA moiety could be introduced to the peptide in a fully automated manner to obtain the peptide-CTA. The approach does not rely on dithioester-based CTAs but on trithiocarbonates, which have been recently evidenced to be more robust against nucleophiles than the dithiobenzoates. The peptide-CTAs effectively control the polymerization of various monomers, allowing to access a broad range of peptide-polymer conjugates for the design of bio-relevant materials.

## 5th Controlled/living Radical Polymerization Symposium

1:30 PM-5:25 PM, Wednesday, August 20, 2008 Sheraton Philadelphia City Center -- Liberty Blrm A, Oral

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