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
custom 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 B1rm
A, Oral

Division of Polymer Chemistry

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