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## Bio-labile peptidyl delivery systems towards sequential drug release

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Compact carriers for peptidyl delivery systems (PDSs) loaded with various drugs were synthesized using a simple and convenient solid phase organic synthesis (SPOS) strategy, including semi-orthogonal functional group protection schemes. Each attachment point of the compact carrier can thus be bound to an anticancer agent through a biodegradable covalent link. Chemo- and bio-stability experiments of a model peptidyl platform loaded with 3 different drugs revealed pH and liver homogenate (metabolic) dependent sequential release behavior. The versatility of this approach will serve to expedite the preparation of PDS libraries. This approach may prove useful for applications suitable for personalized medicine where multiple drug delivery is required in a sequential and controlled fashion.

### Biography

Elena Ragozin is pursuing her PhD in Ariel University, Israel.

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