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# Development of novel synthetic approaches for synthesis of peptide drug candidates

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The fundamental problem of present-day chemotherapy is caused by grave side effects of drugs which greatly impair the life quality of patients, and often lead to the therapy cessation. Targeted delivery of a drug into a cancer cell may resolve this issue, which is known and studied extensively all over the world. The anti-tumor drugs employed here, such as trimelamol, amonafide, azatoxin, procarbazine, tubulisine and some substances of natural origin (capsaicinoids and curcuminoids), are currently used in clinics or undergoing clinical trials. It was decided to synthesize platforms loaded with specified drugs. These platforms are based on amino acids or other compounds of natural origin containing multiple functional groups such as flavonoids or polyphenols. Those platforms have been obtained by means of the simple and convenient orthogonally protective solid-phase organic synthesis (SPOS). Each branch of the platform carries a different anticancer agent linked by a bond such as amide, ester, carbamate, or thiourea, thus providing discrete chemo- and bio-release profiles for each drug.

## Biography

Bazylevich A is pursuing his PhD in Ariel University, Israel.

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