NanoAlb - WEBINAR

DESIGN AND SYNTHESIS OF ANTICANCER DRUGS

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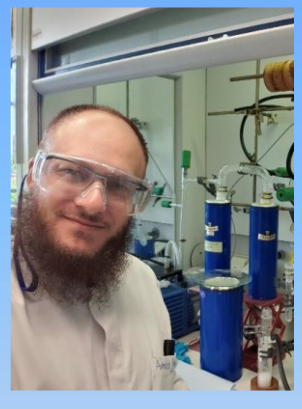

The intense investigation in medicinal chemistry showed that many of the coumarin derivatives with expressed anticoagulant activity, are showing anticancer effects in the same time. Thus, very known and commercially available medicaments *Warfarin*, *Phenprocoumon*, *Sintrom* (acenocoumarol) and *Bromadiolone* are intensively studied for their cytostatic, apoptotic and antiproliferative activities. This triggered interest of design and synthesis of novel coumarin derivatives with high cytotoxic and antiproliferative potential. For this aim the mimetic approach was mainly used. On the other hand, recently, carborane clusters that can be regarded as phenyl mimics have attracted attention. Thus, many compounds containing carboranes as pharmacophore have received much attention in the last decade, especially in the search of novel effective chemotherapeutic agents. Taking into consideration that many flavonoids and their constitutional isomers, coumarins, have shown noticeable anticancer properties, synthesis of novel compounds, by replacing the aromatic ring of some of their derivatives by a carborane cluster to enhanced metabolic stability as well as enhanced hydrophobicity, was undertaken. Many strategies are employed in order to synthetize the desired carborane analogues of *Warfarin* and the other coumarin and flavonoid derivatives.

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