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Synthesis and apoptotic potential establishment of 1, 2-oxaphospholes

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The applications of organophosphorus compounds as pharmaceutical, agricultural and chemical agents are well documented. Among them, oxaphosphole derivatives, which have similar to phospho-sugars structures, have received particular interest. The oxaphospholes are also structural analogues of cyclophosphamide – compound with well documented as alkylating agent and therefore used for treatment of some types of cancer.

Consequently, much attempts for their synthesis have been done. One of the easiest and fruitful method for synthesis of these derivatives are the electrophile-induced heterocyclization of 1, 2-alkadienephosphonates.

Our known expertise in synthesis and investigation of the properties of 1, 2-oxaphospholes, combine with the results of their preliminary clastogenic and apoptotic activity studies, determine the subject matter of the present report, i.e. establishment of the apoptotic potential of 1, 2-oxaphospholes on human cancerous cell lines.

Biography

Dobromir D. Enchev has completed his PhD at the age of 33 years from Shumen University "K. Preslavsky", Shumen, Bulgaria. He is Dean of Faculty of Natural Sciences, "Konstantin Preslavsky" University. He has published more than 88 papers in reputed journals and has been serving as an editorial board member of repute.

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