New Analogues of Acyclovir – Synthesis and Biological Activity

Ivanka Stankova^{a,*}, Stovan Schichkov^b, Kalina Kostova^b, and Angel Galabov^c

- Blagoevgrad 2700, Bulgaria. Fax: ++359 73 88 55 16. E-mail: ivastankova@abv.bg ^b St. Kl. Ohridski Sofia University, Faculty of Biology, Laboratory of Virology, Sofia 1164, Bulgaria
- 1113, Bulgaria

and N.N-dimethyl-4-aminopyridine (DMAP) as a catalyst.

Key words: Peptidomimetics, Acyclovir, HSV

Z. Naturforsch. **65 c**, 29–33 (2010); received September 21/October 19, 2009 New acyclovir esters with peptidomimetics were synthesized and evaluated in vitro for their antiviral activity against the replication of Herpes simplex virus type 1 (HSV-1) and

type 2 (HSV-2). The influence of peptidomimetics containing oxazole and thiazolyl-thiazole moieties on the antiviral activity is also reported. The esters were synthesized using the coupling reagents N-ethyl-N'-(3-dimethylaminopropyl)carbodiimide hydrochloride (EDC)

^c The Stephan Angeloff Institute of Microbiology, Bulgarian Academy of Sciences, Sofia * Author for correspondence and reprint requests

^a Department of Chemistry, South-West University "Neofit Rilski", Ivan Michailov Str. 66,