

## Poster Session II

### Herpesvirus Infections

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Some Aromatic Acyclonucleoside Analogs. G. Shaw and D.C. Agathocleous.  
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Phosphorylation of some imidazole nucleosides using a wheat phosphorylase led us earlier to observe that the presence of an aromatic ring in the nucleoside molecule enhanced the efficiency of the phosphorylation process. Accordingly we have prepared a series of aromatic acyclonucleoside analogs derived from o-aminomethyl-2-phenylethanol which retain the carbon skeleton of a ribo or deoxy ribo nucleoside. The amine (prepared by a much improved method from isochroman) was converted into 5-amino-1-o-(2-hydroxyethyl) benzylimidazole-4-carboxamide and this was cyclised to the corresponding hypoxanthine and guanine derivatives by standard procedures. The hypoxanthine derivative with phosphoryl chloride followed by ammonia gave the adenine analog. The thymine, 2-thiothymine and uracil derivatives were also prepared from the amine and 3-methoxy-2-methyl-N-ethoxycarbonylacrylamide, 3-methoxy-2-methylacryloyl isothiocyanate and ethoxymethylene malonylurethane respectively. The compounds were tested for anti-viral activity against HSV-1 in Veros cells. They were essentially inactive except at high concentrations when the guanine and thymine derivatives were slightly active with  $EC_{50}$  150 and 250 and  $TC_{50}$  > 1000  $\mu$ g per ml respectively.