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**PRECLINICAL TESTING OF ACTIVE SUBSTANCES AND CANCER
RESEARCH**

**WITH INTERNATIONAL SYMPOSIUM ON
ANTI-CANCER AGENTS, CARDIOTOXICITY AND NEUROTOXICITY**

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ABSTRACT BOOK

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P2 ANTITUMORAL ACTIVITY OF PLATINUM (IV) COMPLEX WITH *O,O'*-DIETHYL ESTER OF (*S,S*)-ETHYLENEDIAMINE-*N,N'*--DI-2-(4-METHYL)-PENTANOIC ACID DIHYDROCHORIDE

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The anticancer activity of platinum complexes has been known since the discovery of classical Pt (II)-based drug cisplatin. However, Pt(IV) complexes have greater inertness than corresponding Pt(II) complexes, thus allowing the oral administration and reducing the toxicity associated with platinum-based chemotherapy.

Here, we describe the synthesis, characterization and in vitro antitumor activity of novel platinum (IV) complex: dichloro(*O,O'*-diethyl-(*S,S*)-ethylenediamine-*N,N'*-di-2-(4-methyl)-pentanoate)platinum(IV). We tested cytotoxicity on human colorectal adenocarcinoma cell line SW480 using MTT colorimetric assay. The reported platinum complex was characterized on the bases of elemental analysis, infrared, ¹H and ¹³C NMR spectroscopy.