"Biotechnologia Acta" V. 10, No 1, 2017
https://doi.org/10.15407/biotech10.01.061
P. 61-67, Bibliography 17, English
Universal Decimal Classification: 577.112:616.128

PT (II) AND PD (II) COMPLEXES INFLUENCE ON SPHEROIDS GROWTH OF BREAST CANCER CELLS

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The aim of the research was to examine the changes in multi-cellular tumor spheroid growth, adhesion properties and gamma-glutamintranspeptidasic activity in model systems of human breast cancer multicellular spheroid MCF-7 under the influence of Pt(II) and Pd(II) π-complexes with allyl-containing thioureas. Comparing with cisplatin, Pt(II) and Pd(II) complexes reduce gamma-glutamintranspeptidasic activity, increase adhesive properties in model system of solid tumor and inhibit the multicellular spheroids’ growth. All changes prove the importance of further investigation and analysis of these compounds as potential analogues of anticancer drugs that possibly do not cause resistance and reduce the level of metastasis in breast cancer.

**Key words:** Pt(II) and Pd(II) π-complexes, gamma-glutamintranspeptidase, adhesive properties, multi-cellular tumor spheroids.


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