GULEA, Aurelian, GRAUR, Vasilii O., ULCHINA, Ianina, BOUROSH, Pavlina, SMAGLII, Vadim, GARBUZ, Olga, TSAPKOV, Victor I. Synthesis, Structure, and Biological Activity of Mixed-Ligand Amine-Containing Copper(II) Coordination Compounds with 2-(2-Hydroxybenzylidene)-N-(prop-2-en-1-yl)hydrazinecarbothioamide. In: *Russian Journal of General Chemistry*. 2021, nr. 1(91), pp. 98-107. ISSN 1070-3632.

Copper(II) nitrate reacts in ethanol with 2-(2-hydroxybenzylidene)-*N*-(prop-2-en-1-yl)hydrazinecarbothioamide H_2L in an 1 : 1 molar ratio to form the coordination compound $Cu(HL)NO_3 \cdot H_2O$. The introduction of amines [imidazole (Im), 3,5-dibromopyridine (3,5-Br_2Py), and 4-methylpyridine (4-Pic)] into the reaction mixture in a molar ratio 1 : 1 : 2 leads to the formation of $CuA(HL)NO_3 \cdot nH_2O$ [A = Im, 3,5-Br_2Py, 4-Pic; n = 0, 3] complexes. The structure of the obtained compounds was determined by X-ray structural analysis. The synthesized complexes exhibit antimicrobial, antifungal, antioxidant, and anticancer activities.