**Coordination chemistry of functionalized benzothiadiazoles and their analogues**

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Molecular materials containing a 2.1.3-benzothiadiazole (**btd**) unit attract an attention mainly due to the intensive luminescence. That encourages synthesis of new organic derivatives of **btd**, and study of their photophysical properties. At the same time, coordination chemistry of **btd**-based ligands is still limited with few complexes, containing unsubstituted **btd** or its derivatives with such simple functional groups as -NH2, -OH or -COOH [1-6].

This report is focused on an overview of our ongoing study devoted to the synthesis, complexation and photophysical properties of new **btd**-based ligands containing more advanced functional groups. Some representative examples of the ligands and the complexes obtained are shown in the scheme 1.



**Scheme 1.** Examples of some functionalized 2.1.3-benzothiadiazoles and the complexes with them.

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