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## **Selenium- and tellurium-containing heterocycles: Synthetic strategies, metallation reactions and bioactivity.**

Fabian Mohr

University of Wuppertal - Germany

In this presentation we will give a brief overview of our work on 2-amino-1,3-selenazoles, focusing on their synthesis, metallation reactions and biological activity. We have developed modern and efficient synthetic routes towards these compounds and report ways how functionalized 2-amino-1,3-selenazoles can act as ligands towards a variety of different metals. The heterocycles were also found to be active against a variety of bacterial and fungal strains. In addition, we examined the preparation of tellurium-containing heterocycles from TeO<sub>2</sub> and report structures and reactivity of some 1,2,5-oxatelluroazoles.