



Einladung zum Vortrag von

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**„Unconventional Photoactivation Strategies For
Anticancer Metal-Based Prodrugs”**

In the last few years, photoactivatable transition metal complexes have been studied intensively as alternative photodynamic therapy (PDT) prodrugs.[1] Metals play a key role in medicine and the uniquely rich photochemistry of transition metal complexes can be tailored to promote novel light-induced anticancer mechanisms of action.

Nevertheless, this class of compounds generally displays poor absorption properties in the therapeutic window of the visible spectrum, posing a fundamental limitation for further advancing their use towards preclinical and clinical stages.

In this contribution I will discuss how my group is addressing such issue by developing new photochemistry approaches based on upconverting nanomaterials[2] and bioorthogonal photocatalysis.

[1] Schatzschneider U., Eur. J. Inorg. Chem., 2010, 10, 1451.

[2] a) Ruggiero E., Habtemariam A., Yate L., Mareque-Rivas J. C., Salassa L., Chem. Commun., 2014, 50, 1715; b) Ruggiero E., Hernández-Gil J., Mareque-Rivas J. C., Salassa L., Chem. Commun., 2015, 51, 2091; c) Ruggiero E., Garino C., Mareque-Rivas J. C., Habtemariam A., Salassa L., Chem. Eur. J., 2016, 22, 2801.

Mittwoch, 17. Mai 2017, 15:30 Uhr
Seminarraum 2
Währinger Straße 42, 1090 Wien

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