

# Metal complexes in medicinal chemistry

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Metal complexes are currently playing a tremendous role in medicine. For example, the platinum complex cisplatin and its derivatives oxaliplatin and carboplatin are employed in more than 50 % of the treatment regimes for patients suffering from cancer !

Over the last years, our research group focused its attention on the development of novel metal complexes as imaging and therapeutic agents against cancer and parasitic diseases.<sup>[1-6]</sup> During this talk, we will present our latest results, including *in vivo* results, on these topics.

## References

1. F. W. Heinemann, J. Karges, G. Gasser, *Acc. Chem. Res.* **2017**, *50*, 2727–2736.
2. M. Patra, G. Gasser, *Nature Rev. Chem.* **2017**, *1*, 0066, and references therein.
3. A. Notaro, G. Gasser, *Chem. Soc. Rev.* **2017**, *46*, 7317–7337.
4. M. Patra, K. Zarschler, H.-J. Pietzsch, H. Stephan, G. Gasser, *Chem. Soc. Rev.* **2016**, *45*, 6415–6431.
5. Y. C. Ong, S. Roy, P. C. Andrews, G. Gasser, *Chem. Rev.* **2019**, *119*, 730–796.
6. M. Brandt, J. Cardinale, M. L. Aulsebrook, G. Gasser, T. L. Mindt, *J. Nucl. Med.* **2018**, *59*, 1500–1506.