



# SEMINÁRIO DIA 13/05/2022

Sala do GoogleMeet - 10 horas

*“Metal Complexes as Diagnostics and Therapeutics”.*

**Prof. Dr. Gilles Gasser (FRSC-França)**

## **Enfoque:**

Metal complexes are currently playing a tremendous role in medicine.<sup>1</sup> 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>2-9</sup> During this talk, we will present our latest results, including in vivo results, on these topics.

## **References**

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- (4) Heinemann, F. W.; Karges, J.; Gasser, G. Critical Overview of the Use of Ru(II) Polypyridyl Complexes as Photosensitizers in One-Photon and Two-Photon Photodynamic Therapy. *Acc. Chem. Res.* **2017**, *50*, 2727-2736
- (5) Martínez-Alonso, M.; Gasser, G. Ruthenium polypyridyl complex-containing bioconjugates. *Coord. Chem. Rev.* **2021**, *434*, 213736.
- (6) Notaro, A.; Gasser, G. Monomeric and Dimeric Coordinatively Saturated and Substitutionally Inert Ru(II) Polypyridyl Complexes as Anticancer Drug Candidates. *Chem. Soc. Rev.* **2017**, *46*, 7317-7337.
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- (8) Patra, M.; Gasser, G. The Medicinal Chemistry of Ferrocene and its Derivatives. *Nature Rev. Chem.* **2017**, *1*, 0066, and references therein.
- (9) Patra, M.; Zarschler, K.; Pietzsch, H.-J.; Stephan, H.; Gasser, G. New insights into the pretargeting approach to image and treat tumours. *Chem. Soc. Rev.* **2016**, *45*, 6415-6431.