



SEMINAIRE de l'ILV
Lundi 16 Décembre 2019
11h00
Salle de Conférences de l'ILV

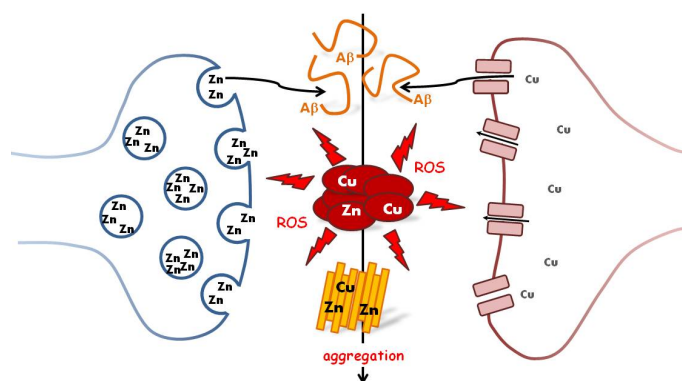
**Why and how coordination chemistry and compounds can help
fighting AD ?**

Christelle Hureau

Responsable de l'équipe "Alzheimer et amyloïdes"

Laboratoire de Chimie de Coordination du CNRS, 205 Route de Narbonne 31077 Toulouse

Alzheimer's disease (AD) is a neurodegenerative disorder characterized post-mortem by amyloid deposits made of aggregates of the amyloid- β ($A\beta$) peptides and containing high levels of Cu, Zn and Fe metal ions. Metal ions have been involved in early processes linked to the development of the disease, namely, modulation of the aggregation of $A\beta$ but also contribution to the oxidative stress. Illustrations of the importance of coordination chemistry and compounds to tackle Cu($A\beta$)-induced ROS production and $A\beta$ aggregation will be given.



References

C. Hureau, In *Encyclopedia of Inorganic and Bioinorganic Chemistry*, R. A. Scott (Ed.). doi:10.1002/9781119951438.eibc2635, pp1-14.

Esmieu, Charlène, Djamila Guettas, Amandine Conte-Daban, Laurent Sabater, Peter Fallor, and Christelle Hureau. "Copper-Targeting Approaches in Alzheimer's Disease: How to Improve the Fallouts Obtained from in Vitro Studies." *Inorganic Chemistry* 58 (2019) 13509-27.

Acknowledgments

ERC StG-638712 "aLzINK" and ANR-DIVA are acknowledged for financial support.