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RESEARCH ACTIVITIES

Biochemical and structural study of [4Fe-4S]-dependent tRNA thiouridylases

Publications

2020 One-pot oxime ligation from peptides bearing thiazolidine and aminoxyacetyl groups. Duflocq S, **Zhou J**, Huguenot F, Vidal M, Liu W. RSC Adv, 2020,10, 17681-17685

2020 Structural evidence for a [4Fe-5S] intermediate in the non-redox desulfuration of thiouracil. **Zhou J**^{*}, Pecqueur L^{*}, Aučynaitė A, Fuchs J, Rutkienė R, Vaitekūnas J, Meškys R, Boll M, Fontecave M, Urbonavičius J^{*}, Golinelli-Pimpaneau B^{*} Angewandte Chemie DOI: 10.1002/anie.202011211 and 10.1002/ange.202011211

2021 Iron-sulfur biology invades tRNA modification: the case of U34 sulfuration.

Zhou J^{*}, Lénon M^{*}, Ravanat JL, Touati N, Velours C, Podskoczyj K, Leszczynska G, Fontecave M, Barras F^{*}, Golinelli-Pimpaneau B^{*}. Nucleic Acids Res. 2021 Apr 19;49(7):3997-4007. doi: 10.1093/nar/gkab138. Erratum in: Nucleic Acids Res. 2021 Jun 4;49(10):5998. PMID: 33744947; PMCID: PMC8053098.

Education background

2018/2019 : Paris Descartes University , Faculty of Pharmacy of Paris

Master 2 Drug Sciences - Specialization: Medicinal Chemistry and Molecular Pharmacology

2017/2018 : Claude Bernard Lyon 1 University , Faculty of Pharmacy and Medicine

Master 1 Drug Sciences

2013/2017 : Reims Champagne-Ardenne University , Faculty of Sciences

Bachelor degree of Science of Life and Earth - Specialization in Biochemistry

Previous research activities

2018 Paris, France

Intern R&D in Paris Descartes University, Laboratory CNRS-UMR 8638

Activation of the p53 pathway via riboprotein inhibition and synthesis of cyclic peptides

2018 Lyon, France

Group work at INSTITUTE OF PHARMACEUTICAL AND BIOLOGICAL SCIENCES

Literature review on the pathophysiology of the Chronic Obstructive Pulmonary disease as well as current and developing bronchodilators

2017 Xinjiang, China

Drug quality control operator at CHINA DRUG AND FOOD ADMINISTRATION

Extraction, purification, characterization, analysis of drug substances and drug control tests.