



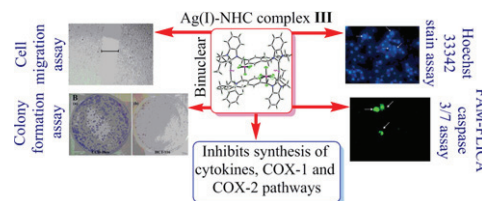
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Journal of Inorganic Biochemistry 146 (2015) 1–13

Macrophage and colon tumor cells as targets for a binuclear silver(I) *N*-heterocyclic carbene complex, an anti-inflammatory and apoptosis mediator

Cancer and inflammation are inter-related diseases. So a new binuclear Ag(I)-*N*-heterocyclic carbene complex **III** was tested for its possible anticancer and anti-inflammatory mode of actions. The complex induced apoptosis in human colon cancer cells and inhibited the synthesis of cytokines and cyclooxygenase activities of inflammation pathways.

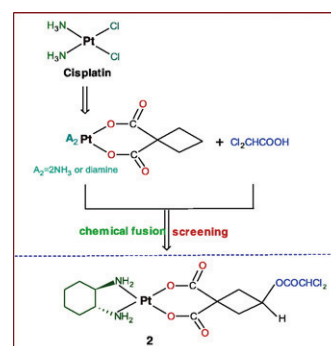


**Weiping Liu, Jing Jiang, Yongping Xu,
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Journal of Inorganic Biochemistry 146 (2015) 14–18

Design, synthesis and anticancer activity of diam(m)ine platinum(II) complexes bearing a small-molecular cell apoptosis inducer dichloroacetate

The complex **2**, characterized by a dichloroacetate moiety in the leaving group and 1*R*,2*R*-diaminocyclohexane as the carrier, is able to release the dichloroacetate moiety, shows great anticancer activity as well as displays potential of being totally devoid of cross-drug resistance with cisplatin.

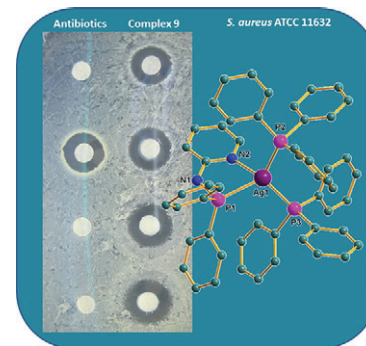


**Lourdes Ortego, Jesús Gonzalo-Asensio,
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Journal of Inorganic Biochemistry 146 (2015) 19–27

(Aminophosphane)gold(I) and silver(I) complexes as antibacterial agents

Aminophosphane gold(I) and silver(I) complexes showed moderate antimicrobial activity against Gram negative and Gram positive bacteria, comparable to reference antibiotics.

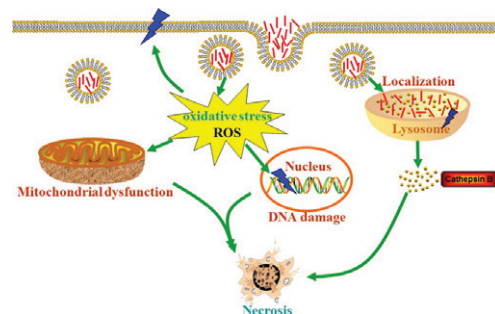


**Yi Jin, Shizhu Chen, Jianlei Duan,
Guang Jia, Jinchao Zhang**

Journal of Inorganic Biochemistry 146 (2015)
28–36

Europium-doped Gd_2O_3 nanotubes cause the necrosis of primary mouse bone marrow stromal cells through lysosome and mitochondrion damage

The cytotoxicity of $\text{Gd}_2\text{O}_3:\text{Eu}^{3+}$ nanotubes on BMSCs (bone marrow stromal cells) and the associated mechanisms were studied. The results indicated that they could trigger cell necrosis. Two mechanisms were involved in BMSCs necrosis: lysosomal rupture and release of cathepsins B; and the overproduction of ROS injury to the mitochondria and DNA.

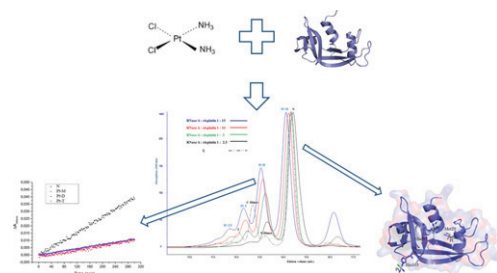


**Delia Picone, Federica Donnarumma,
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Andrea Fagagnini, Giovanni Gotte,
Antonello Merlino**

Journal of Inorganic Biochemistry 146 (2015)
37–43

Platinated oligomers of bovine pancreatic ribonuclease: Structure and stability

RNase A incubation in the presence of an excess of cisplatin induces the formation of platinated oligomers with structural and functional properties distinct from those of the previously characterized oligomers of the same protein.

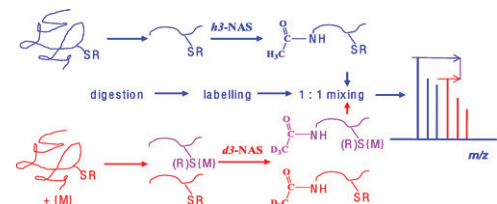


**Yu Lin, Yongdong Huang, Wei Zheng,
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Journal of Inorganic Biochemistry 146 (2015)
44–51

Quantification of bindings of organometallic ruthenium complexes to GST π by mass spectrometry

An ESI-MS method was developed to quantify the bindings of organoruthenium anticancer complexes $[(\eta^6\text{-arene})\text{Ru}(\text{en})\text{Cl}]^+$ (arene = *p*-cymene, biphenyl or dihydrophenanthrene; en = ethylenediamine) to GST π , demonstrating that the coordination of $\{(\eta^6\text{-arene})\text{Ru}(\text{en})\}$ units to Cys15 and Cys48 of GST π is determinant to their inhibitory potency against GST π .

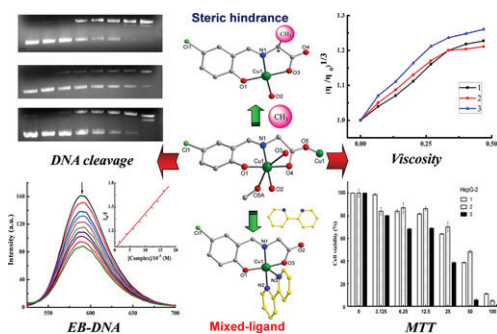


**Ang Li, Ya-Hong Liu,
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Chun-Lai Zhao, Cheng-Zhi Xie,
Wei-Guo Bao, Jing-Yuan Xu**

Journal of Inorganic Biochemistry 146 (2015)
52–60

Association of structural modifications with bioactivity in three new copper(II) complexes of Schiff base ligands derived from 5-chlorosalicylaldehyde and amino acids

Depending on structural modification, it was found that the Schiff-base copper(II) complex, while introducing 2,2'-bipyridine, displayed the strongest DNA-binding and cleavage activity, as well as potent cytotoxicity towards HepG-2 and NCI-H460 cells.



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