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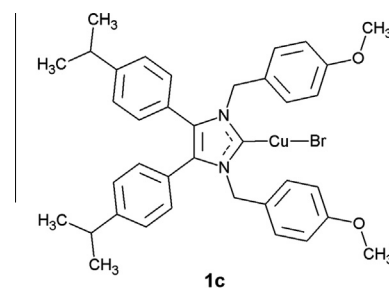
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Wojciech Streciwilk, Frauke Hackenberg, Helge Müller-Bunz and Matthias Tacke

Polyhedron 80 (2014) 3

Synthesis and cytotoxicity studies of *p*-benzyl substituted NHC–copper(I) bromide derivatives

Ten novel *N*-heterocyclic carbene–copper(I) bromide derivatives were synthesised, chemically characterised and biologically evaluated against two human cancer cell lines, where the best compound showed nanomolar activity.



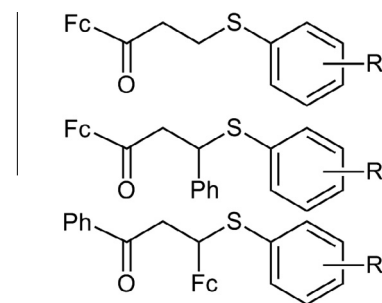
IC_{50} MCF-7:	$0.60 (+/- 0.09) 10^{-6} \text{ M}$
IC_{50} Caki-1:	$0.65 (+/- 0.08) 10^{-6} \text{ M}$

Dragana Stevanović, Goran A. Bogdanović and Rastko D. Vukićević

Polyhedron 80 (2014) 10

New ferrocene containing 3-(arylthio)propan-1-ones: Synthesis, spectral characterization and crystal structure of 3-[(4-chlorophenyl)thio]-1-ferrocenylpropan-1-one, 3-[(4-chlorophenyl)thio]-1-ferrocenyl-3-phenylpropan-1-one and 3-[(4-chlorophenyl)thio]-3-ferrocenyl-1-phenylpropan-1-one

Three series of ferrocene containing 3-(arylthio)propan-1-ones (24 in total, 16 being new ones) have been synthesized by thia-Michael addition of 8 thiophenols to the corresponding enones promoted by the catalyst generated from a sacrificial zirconium anode. The single crystal X-ray structure analysis was performed for three of the synthesized compounds.



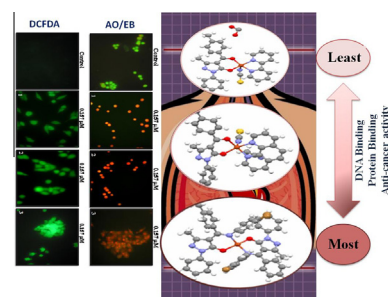
Fc = ferrocenyl, R = H, CH₃, C(CH₃)₃, Cl

Komal M. Vyas, R.N. Jadeja, Dipak Patel, R.V. Devkar and Vivek K. Gupta

Polyhedron 80 (2014) 20

Effect of ligand substitution in pyrazolone based binary and ternary Cu(II) complexes on DNA binding, protein binding and anti-cancer activity on A549 lung carcinoma cell lines

A new set of pyrazolone based Cu(II) complexes has been reported with single crystal structures. DNA/protein binding and anti-cancer activity against A549 lung cancer cells suggested strong influence of ligand substitution on pharmacological activities.

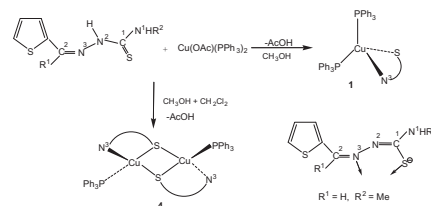


**Tarlok S. Lobana, Shikha Indoria,
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Amanpreet K. Jassal, Maninder S. Hundal
and Alfonso Castineiras**

Polyhedron 80 (2014) 34

Synthesis, structure and spectroscopy of mono- and di-nuclear copper(I) complexes incorporating anionic thiophene based thiosemicarbazones—first examples

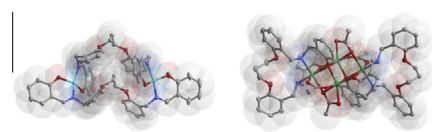
Six new copper(I) complexes with thiophene based anionic thiosemicarbazones are reported: three mononuclear (**1–3**) with N³,S-chelation and three dinuclear (**4–6**) with N³,S-chelation-S-bridging. It was found that for R¹ = H and R² = Me, the thio-ligand HttscN–Me yielded a mononuclear complex **1** in methanol solvent and a dinuclear complex **4** in methanol–dichloromethane mixture. For R¹ = Me, there is preference for the formation of dinuclear complexes (**5, 6**).



**Seyed A. Hosseini-Yazdi,
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Azadeh Mirzaahmadi, Ali Akbar Khandar,
Chodrat Mahmoudi, Michael Ruck,
Thomas Doert, Salete S. Balula and
Luís Cunha-Silva**

Polyhedron 80 (2014) 41

Synthesis, crystal structures, spectroscopic and electrochemical studies on Cu(II) and Ni(II) complexes with compartmental nitrogen–oxygen mixed donor ligands

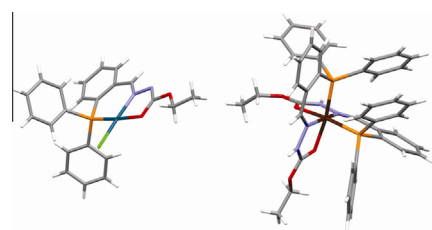


**Milica Milenković, Giulia Cantoni,
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Natalija Krstić and Katarina Andelković**

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Synthesis, characterization and antimicrobial activity of Pd(II) and Fe(III) complexes with ethyl (2*E*)-2-[2-(diphenylphosphino)benzylidene]hydrazinecarboxylate

Complexes of Pd(II) and Fe(III) with the condensation derivative of 2-(diphenylphosphino)benzaldehyde and ethyl carbazate were synthesized, characterized, and their antimicrobial activity was evaluated.

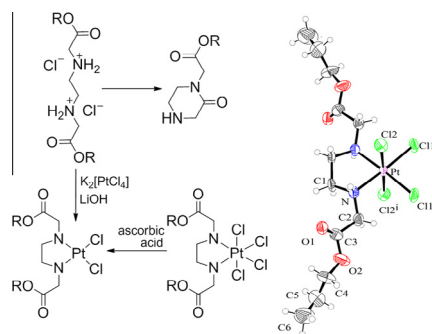


**Goran N. Kaluderović, Nebojša Pantelić,
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Christoph Wagner, Bojana B. Zmejkovski
and Harry Schmidt**

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Platinum(II) complexes with R₂edda ligands (R = Me, Et, *n*-Pr; edda = ethylenediamine-*N,N'*-diacetate): Synthesis and characterization

Three novel [PtCl₂(R₂edda)] complexes (R = Me, Et, *n*-Pr; edda = ethylenediamine-*N,N'*-diacetate; **1–3**) are synthesized and characterized. Hydrolytic stability of ligand precursors, crystal structure of [PtCl₄((*n*-Pr)₂edda)] and reduction of *rac*-[PtCl₄(Et₂edda)] are presented. The *in vitro* cytotoxic activity of complexes **1–3** was studied on 11 tumor cell lines.



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