

## CONFIRMED ORAL PRESENTATION

### Title and Author

**Inhibition of NDM-1 carbapenemase by a novel class of thiazolidines**

#1047029: María Agustina Rossi

Área: Metalloproteins and Metalloenzymes

**On the mechanism of action of new active ruthenium anticancer compounds: a model membrane biophysics approach**

#1050461: Ana Isabel Antunes Tomaz Diniz

Área: New Emerging Topics (in Bioinorganic Chemistry)

**Characterization of the biosynthesis of 2-thiouridine in transfer RNA catalyzed by an iron-sulfur protein**

#1050479: Naoki Shigi

Área: Metalloproteins and Metalloenzymes

**The amino terminus of the prion protein does not compete with the octarepeat domain for divalent copper**

#1050493: Simon Drew

Área: Medicinal Inorganic Chemistry

**How nature tunes dynamics to drive allosteric inhibition vs. activation: AdcR, a Zn regulator of *Streptococcus pneumoniae***

#1050436: Daiana Capdevilla

Área: Metalloproteins and Metalloenzymes

**Fluorescent Imaging Targeted to Tyrosine kinase and Early Diagnosis of Cancer**

#1050438: Yang Jiao

Área: Bioenergetics, Electron Transfer and Reactive Species

## **Title and Author**

---

### **Enzymatic Simulation of Metal-organic Architectures**

#1050391: Chunying Duan

Área: Bioinspired Coordination and Organometallic Chemistry

---

### **A Unique Family of Iron-Sulfur Regulators in Redox Stress Response in Mycobacteria**

#1048969: Limei Zhang

Área: Metalloproteins and Metalloenzymes

---

### **Resonance Raman of ba3 oxidase from Thermus thermophilus: Detection of a ferryl-oxo species and a low to high temperature transition**

#1047057: Constantinos Varotsis

Área: Bioenergetics, Electron Transfer and Reactive Species

---

### **Cytotoxic activity of phenanthroline salicylaldimine zinc(II) complexes**

#1046783: Maria Isabel Rodrigues Correia

Área: Medicinal Inorganic Chemistry

---

### **Water oxidation catalyzed by mononuclear iron and cobalt polypyridine complexes**

#1050450: Anders Emanuel Thapper

Área: Bioinspired Coordination and Organometallic Chemistry

---

### **Bioinorganic chemistry in Brazilian soils**

#1047010: Antonio Salvio Mangrich

Área: Environmental Bioinorganic Chemistry

---

### **Artificial Flavo-Reductase for the Catalytic Activation of Dioxygen at Metal Centers in Water**

#1046760: Frédéric Avenier

## Title and Author

Área: Bioinspired Coordination and Organometallic Chemistry

### **Increasing the anticancer activity of copper(II)-salan complex by attaching naphthyl groups to the ligand structure**

#1047363: Adolfo Horn Junior

Área: Medicinal Inorganic Chemistry

### **Silver(I) complexes with 2-acetylpyridine- and 2-benzoylpyridine- derived hydrazones: cytotoxicity against metastatic melanoma cells**

#1046833: Heloisa Beraldo

Área: Medicinal Inorganic Chemistry

### **Estrogens-functionalized metal complexes: selective anticancer and antibacterial activity**

#1046707: Diego Montagner

Área: Medicinal Inorganic Chemistry

### **Spectroscopic characterization of the soluble electron transfer domains of T. Thermophilus caa3 COX**

#1047043: Marcos Nicolás Morgada

Área: Metalloproteins and Metalloenzymes

### **Dynamic insight into the interaction between two fluorescent platinum(II) complexes and a BCL-2 RNA G-quadruplex**

#1047188: Zenghui Wang

Área: Nucleic Acids and Metals

### **Determining the Critical Diiron Distance of Q within Soluble Methane Monooxygenase**

#1049090: George Edward Cutsail III

Área: Metalloproteins and Metalloenzymes

## Title and Author

### **S-arylation: A unique zinc finger inhibition mechanism observed for Au(2-benzylpyridine)Cl<sub>2</sub>**

#1046971: Raphael Enoque Ferraz de Paiva

Área: Metalloproteins and Metalloenzymes

### **The Orange Protein Complex - Novel Fe-S proteins from sulfate reducing bacteria**

#1048873: Sofia Rocha Pauleta

Área: Metalloproteins and Metalloenzymes

### **Novel insights into metal selectivity and reactivity in human metallothionein-3**

#1048929: Gabriele Meloni

Área: Medicinal Inorganic Chemistry

### **The use of conjugated polypyridyl ligands as a design strategy to increase the CO release activity of manganese photoCORMs**

#1046860: André Luiz Amorim

Área: Medicinal Inorganic Chemistry

### **Binding of antiangiogenic platinum with Glycosaminoglycans (GAGs): Interaction and cleavage inhibition studies**

#1047974: Anil Kumar Gorle

Área: Medicinal Inorganic Chemistry

### **Chemical Warfare in the Immune System Response to Cryptococcus Neoformans**

#1047019: Peter Andrew Lay

Área: Cell biology of Metals (homeostasis, transport, storage)

### **Expanded Macrocycles for the Chelation of Radionuclides for Targeted Alpha Therapy**

## Title and Author

---

#1047391: Justin Wilson

Área: Medicinal Inorganic Chemistry

### **Development of new nitrosyl ruthenium compounds with antioxidant and vasodilator action**

#1046715: Luiz Gonzaga de França Lopes

Área: Medicinal Inorganic Chemistry

### **SYNTHESIS AND CHARACTERIZATION OF A DINUCLEAR Fe<sup>III</sup>Zn<sup>II</sup> COMPLEX AS A MODEL FOR PURPLE ACID PHOSPHATASE**

#1046843: Claudia Pereira

Área: Bioinspired Coordination and Organometallic Chemistry

### **A Vanadium compound with multiple therapeutic effects: is it just a promising insulin-mimetic or will it achieve pharmaceutical use?**

#1048334: Maria Margarida Catalão Almiro E Castro

Área: Medicinal Inorganic Chemistry

### **Design of new trinuclear ruthenium clusters with ortho-metallated ligands: physical-chemical characterization and promising antitumor activity**

#1047509: Camila Fontes Neves da Silva

Área: Medicinal Inorganic Chemistry

### **Exchangeable haem levels are equal to intra-cellular drug amounts for ?-haematin inhibiting antimalarials and is present as a Fe(III)PPIX-drug complex**

#1046886: Roxanne Openshaw

Área: Medicinal Inorganic Chemistry

## **Title and Author**

### **A Biomimetic Approach for the Design of Manganese and Copper Based Water Oxidation Electrocatalysts**

#1048870: Galia Maayan

Área: Bioinspired Coordination and Organometallic Chemistry

### **Modeling copper-containing monooxygenases active sites and reaction intermediates**

#1047295: Ariane Jalila Simaan

Área: Bioinspired Coordination and Organometallic Chemistry

### **Catalysts based on surface functionalized laccases**

#1047328: Thierry Tron

Área: Metalloproteins and Metalloenzymes

### **Cytotoxic titanium(IV) compounds prepared with iron chelators alter the intracellular labile iron pool**

#1046894: Arthur Tinoco

Área: Medicinal Inorganic Chemistry

### **Simultaneous contrast agent and drug delivery in colon-targeted MRI using pH sensitive electrospun theranostic fibers**

#1047949: Carlos Frederico Gusmão Campos Geraldes

Área: Medicinal Inorganic Chemistry

### **Metalloprotein design using genetic code expansion**

#1046482: Jiangyun Wang

Área: Metalloproteins and Metalloenzymes

### **Utility of heme analogues to design the heme-globin interactions in myoglobin**

#1046900: Saburo Neya

## Title and Author

Área: Metalloproteins and Metalloenzymes

### **Biocompatible catalysis as a powerful tool for uncaging probes in cellular medium**

#1046758: Mathieu Soetens

Área: Medicinal Inorganic Chemistry

### **H4neunpa-trastuzumab: Evaluation of a Novel Bifunctional Chelator for In-111 Radiopharmaceuticals and Immuno-SPECT Imaging**

#1046788: Sarah Spreckelmeyer

Área: Medicinal Inorganic Chemistry

### **Targeted IO<sub>2</sub> mediated PDT in visible light via BODIPY-appended oxovanadium(IV) complex at mitochondrial DNA crosslinking site**

#1046941: Arun Kumar

Área: Medicinal Inorganic Chemistry

### **Comparison of the Properties of Nucleotide-Metal Ion Complexes Including Those of the Toxic Lead(II)**

#1046724: Helmut Sigel

Área: Nucleic Acids and Metals