



ISMEC2012

International Symposium on Metal Complexes 2012

LIST OF POSTER COMMUNICATIONS

Poster Session 1 (Tuesday, 19th, 6.20 pm): Posters **P1 – P64**

Poster Session 2 (Thursday, 21st, 6.20 pm): Posters **P65 – P114**

P1 - Equilibrium and kinetic studies on copper(II) complexes of scorpiand-like ligands

Carmen E. Castillo, M. Angeles Máñez, Manuel G. Basallote, M. Paz Clares, Salvador Blasco, Enrique García-España

P2 - Full characterization of synthetic *pheomelanins*, and its complexation by Cu(II) ion

Thiago G. Costa, Bruno Szpoganicz, Mateus Feldhaus, Maria M. Humanes, Olinda Monteiro, Gustavo Micke, David Fonseca, Giovanni Caramori

P3 - Mixed transition metal complexes of model peptides related to the metal binding site of prion protein

Ildikó Turi, Imre Sóvágó

P4 - Solution studies on antitumor gallium(III) complexes and their interactions with human serum proteins

Orsolya Dömötör, Erika Varga, Krisztina Bali, Christian G. Hartinger, Bernhard B. Keppler, Tamás Kiss, Éva A. Enyedy

P5 - Coordination ability of small multihistidine peptides

Katalin Várnagy, Sarolta Timári, Dóra Serfözö, József Asztalos, Mariann Kiss

P6 - Potentiometric studies and stability constants of manganese(II), cobalt(II), nickel(II) and copper(II) complexes with a ligand derived from 1,2,4 triazole

Nawel Lechani, Maamar Hamdi, Fahima Aklil, Samia Khabouche, Ouassini Benali Baitich

P7 - Mixed thiophene-phenanthroline Cu(II) complexes: synthesis, equilibria and cytotoxicity

Federica Trudu, Tiziana Pivetta, Francesco Isaia, Eva Antoniotti, M. Grazia Cabiddu, Matteo Manca, Daniela Perra, Alessandra Pani

P8 - Redox reactions of the peroxomonosulfate ion in the ferroin/ferriin system

Gábor Bellér, Gábor Lente, István Fábrián

P9 - Cross-bridged cyclen derivative: synthesis, acid-base and metal complexation studies

Catarina V. Esteves, Luís M. P. Lima, Rita Delgado

P10 - Substituent effect on the stability of iron(III)-salicylate complexes. Structure of *trans*-[Fe(H5Nsal)₂(H₂O)₂]Cl·2H₂O

Valeria M. Nurchi, Guido Crisponi, Miriam Crespo-Alonso, Alicia Domínguez-Martin, Josefa M. González-Pérez, Juan Niclos-Gutierrez, Alfonso Castineiras

P11 - Control of copper(II) complexes speciation and properties by harnessing the flexible nature of peptidic ligands

Ana Fragoso, Pedro Lamosa, Rita Delgado, Olga Iranzo

P12 - The mutual separation of rare earth elements utilizing the reaction of corresponding complexes coordinated by Tris(2-aminoethyl)amine with 2-hydroxy-3-methoxybenzaldehyde

Masatoshi Kanamoto, Yuuta Fujimoto, Ayumi Kashiwada, Kiyomi Matsuda, Yoshihiro Kikkawa, Yoriko Sonoda, Midori Goto

P13 - Systematic studies of dimeric gold(I)-NHC-complexes

Stefanie Kobialka, Christina Mueller, Marianne Engeser

P14 - Use of amino-polycarboxylic chelating agents for the sequestration of $(\text{CH}_3)\text{Hg}^+$ ion in aqueous solution

Salvatore Cataldo, Concetta De Stefano, Antonio Gianguzza, Alberto Pettignano

P15 - Some solution thermodynamic properties of penicillin derivatives. The effect of ionic strength and temperature on the solubility and acid-base properties of the amoxicillin, ampicillin and 6-aminopenicillanic acid

Francesco Crea, Daniela Cucinotta, Demetrio Milea, Silvio Sammartano and Giuseppina Vianelli

P16 - The evaluation of the water infiltration chemical attack in building materials by spectroscopic techniques: raman and DRIFT

Olivia Gómez-Laserna, Iker Arrizabalaga, Nagore Prieto-Taboada, Marian Olazabal, Gorka Arana, Juan Manuel Madariaga

P17 - Coordination chemistry of copper(II) complexes with heteroaromatic alcohols. Synthesis, spectroscopic characterization and antioxidant activity studies

Barbara Barszcz, Maciej Hodorowicz, Joanna Masternak, Katarzyna Michalska, Kinga Dumin

P18 - Factors controlling the structures of Cu(II) and Cd(II) complexes obtained *in situ* using 1-hydroxymethyl-3,5-dimethylpyrazole as a starting ligand

Barbara Barszcz, Joanna Masternak, Wanda Sawka-Dobrowolska, Angelika Kamizela

P19 - Interaction of divalent cations with Park9 protein fragments

Maurizio Remelli, Massimiliano Peana, Serenella Medici, Roberto Anedda, Maria Antonietta Zoroddu

P20 - Preparation and characterization of the polydentate Schiff base derived from 2,6-diformyl-4-methylphenol and N-aminopyrimidine-2-thione and its metal complexes

Mehmet Gülcan, Metin Çelebi, Mehmet Sönmez

P21 - Kinetics and mechanism of the reaction between a Mn(III) porphyrin and N-hydroxyurea in aqueous solution

József Kalmár, Bernadett BIRI, Gábor Lente, István Bányai, István Fábán, Ana Budimir, Mladen Biruš, Ines Batinić-Haberle

P22 - Kinetic studies on the light-induced water splitting catalyzed by the Ce(III)/Ce(IV) redox system

Éva Józsa, Ádám Péter Pap, Judit Michnyóczy, Katalin Ósz

P23 - Oxidative dehydrogenation of an Fe(II) complex with a scopiand-type ligand

Laura Acosta-Rueda, Manuel G. Basallote, M. Paz Clares, Conxa Soriano, Salvador Blasco, Enrique García-España

P24 - Coordination abilities of mono and multi-histidinic and glutamate peptide fragments towards manganese(II) and cobalt(II)

Maria Antonietta Zoroddu, Massimiliano Peana, Serenella Medici, Costantino Solinas, Claudia Juliano, Roberto Anedda, Valeria M. Nurchi, Guido Crisponi

P25 - Synthesis, structural characterization, catalytic and thermal investigations of multidentate Schiff base ligand derived from pyrimidine compound and its metal complexes

Mehmet Gülcan, Esin İspir, Mehmet Sönmez

P26 - Structural studies on the interaction of group 12 metal ions with the water soluble 8-hydroxy-sulfo-quinoline

M. Luísa Ramos, Licinia L.G. Justino, Adriana Branco, Sofia M. Fonseca, Hugh D. Burrows

P27 - Liquid chromatography combined with elemental and molecular mass spectrometry for analysis of phytosiderophores and metal-phytosiderophore complexes in the context of strategy II iron acquisition by plants

Yvonne Schindlegger, Anna Regelsberger, Madeleine Dell'mour, Gunda Koellensperger, Walter D. C. Schenkeveld, Stephan M. Kraemer, Eva Oburger, Barbara Gruber, Markus Puschenreiter, Stephan Hann

P28 - Kojic derivatives: a promising class of iron(III) chelators

Leonardo Toso, Sérgio M. Marques, Valeria M. Nurchi, M. Amélia Santos, Guido Crisponi

P29 - Alkylamine-bearing N-heterocyclic chelators for hard metal ions

Anabela Capelo, Laurinda Areias, M. Alexandra Esteves, Lurdes Gano, Sílvia Chaves, M. Amélia Santos

P30 – Bifunctional iron-chelators with protective roles against neurodegenerative diseases

Andreia Nunes, Ranganath Keri, Sérgio M. Marques, Sílvia Chaves, M. Amélia Santos

P31 - A tripodal hydroxypyrimidinone-Gd chelate for potential diagnostic use

Sílvia Chaves, Anabela Capelo, Laurinda Areias, Sérgio M. Marques, M. Alexandra Esteves, M. Amélia Santos

P32 - The effect of N-methylimidazole on the reactivity of a model complex for compound II. A combined experimental and theoretical study

Maria Oszejca, Agnieszka Drzewiecka-Matuszek, Alicja Franke, Małgorzata Brindell, Dorota Rutkowska-Zbik, Małgorzata Witko, Grażyna Stochel, Rudi Van Eldik

P33 - Synthesis, photophysical properties and DFT calculation of bright-blue luminescent of Zn(II) complex with 7-amino-2-methylchromone

Bogumila Kupcewicz, Anna Kaczmarek-Kędziera, Karin Lux, Elżbieta Budzisz

P34 - NMR and density functional theory characterization of the structures of oxoperoxo vanadium(V) complexes of L-malic and L-tartaric acids

Licinia L.G. Justino, M. Luísa Ramos, Hugh D. Burrows

P35 - Determination of the number of complex in equilibrium mixture

Zuzana Ferenčíková, Milan Meloun

P36 - DFT study of the interaction of heavy metal ions with thioethers.

Andrea Melchior, Elena Peralta, Marilena Tolazzi, Manuel Valiente

P37 - Using the MS-Excel™ spreadsheet in potentiometric studies of complex formation equilibria: PKPOT_L1 functions

José Luis Beltrán

P38 - Protonation sequence of risedronic acid: experimental and theoretical studies

Clemente Bretti, Concetta De Stefano, Gabriele Lando, Ignacy Cukrowski

P39 - Novel N,O-chelated rare earth metal complexes with luminescent activity: DFT analysis of structure luminescent properties relationship

Alexander F. Shestakov

P40 - Ruthenium complexes in different oxidation states. Synthesis, crystal structure, spectra and magnetic characterization

Agnieszka Jabłońska – Wawrzycka, Patrycja Rogala, Maciej Hodorowicz, Barbara Barszcz

P41 - Solid-state studies of manganese(II) complexes with chelating alcohol and aldehyde. Crystal structure, spectroscopic, magnetic and thermal behaviors

Agnieszka Jabłońska-Wawrzycka, Małgorzata Zienkiewicz, Katarzyna Stadnicka, Maciej Hodorowicz, Julia Jezierska, Andrzej Ożarowski, Barbara Barszcz, Dagmara Galas

P42 - Comparison of crystal structure of Ca(II) complexes with heterocyclic alcohol, aldehyde and carboxylate ligands and their cadmium analogues

Joanna Masternak, Barbara Barszcz, Maciej Hodorowicz, Ewa Matczak-Jon, Agnieszka Jabłońska-Wawrzycka, Agnieszka Borek, Anna Fulara

P43 - Nickel speciation in xylem sap of endemic and facultative species of serpentine soils

Sheila Alves, Cristina Nabais, Maria de Lurdes S. Gonçalves, Margarida M. Correia dos Santos

P44 - The use of chemometrics for classification and calibration of seawater using the H⁺ affinity spectrum

Elisa Astigarraga, Luis Ángel Fernández, Naiara Goienaga, Leire Kortazar, Janire Sáez, Ainhoa Tirapu

P45 - The interaction mechanism of gold(III) with the metal extractant PADA in DTAC micellar medium and applications to gold(III) extraction

Sabriye Aydinoğlu, Tarita Biver, Fernando Secco, Marcella Venturini

P46 - Speciation and bioavailability of Cd in freshwater bivalves – effect of the TiO₂ nanoparticles

Gonçalo Vale, Margarida M. Correia dos Santos, Rute F. Domingos

P47 - Dissolution and aggregation of various ZnO nanoparticles – effects of pH, ionic strength and concentration

Carlos E. Monteiro, Kevin J. Wilkinson, Rute F. Domingos

P48 - Stability of CdTe/CdS quantum dots – role of pH and small organic ligands

Cristiana Franco, José P. Pinheiro, Rute F. Domingos

P49 - Thermodynamics and kinetics of the dissolution of ZnO nanoparticles followed by AGNES

Calin David, Sara Cruz-González, José Salvador, Josep Monné, José Luis Garcés, Joan Cecilia, Sandrine Mongin, Encarna Companys, Jaume Puy, Carlos Rey-Castro, Josep Galceran

P50 - Boron removal from aqueous solutions using alginate gel beads in fixed-bed systems

Hary Demey-Cedeño, Montserrat Ruiz Planas, Lourdes Roset, Carlos Tobalina, Sergio Castro, Jesús Alberto Barron-Zambrano, Ana M. Sastre

P51 - Role of surface biomolecules in the heavy metals sequestrant capacity of lactic acid bacteria. A Vibrational Spectroscopy study

Esteban Gerbino, Pablo Mobili, E. Elizabeth Tymczyszyn, Cuauhtémoc Araujo-Andrade, Claudio Frausto Reyes, Rui Fausto, Andrea Gómez-Zavaglia

P52 - Metal-sorption based on hydroxypyrimidinone functionalized solid supports

M. Alexandra Esteves, Anabela Capelo, Laurinda Areias, João Rocha, M. Amélia Santos, Silvia Chaves

P53 - Application of cork as sorbent of azo-dyes in coloured effluents

Valeria M. Nurchi, Miriam Crespo-Alonso, Delara Mansoori, Valentina De Maria, Elena Cau

P54 - Arsenic sorption onto natural, modified and synthetic sorbents

Linda Ansoné, Maris Klavins, Linda Eglite

P55 - Effect of pH on Cu(II) and Cr(VI) removal by using exhausted coffee in a batch reactor

Chang Liu, Jordi Poch, Núria Fiol, Florencio De La Torre, Tianhu Chen, Isabel Villaescusa

P56 - Chromium (VI) sorption onto granulated cork from *Quercus suber* and *Quercus cerris*

Ali Sen, M. Àngels Olivella, Núria Fiol, Isabel Miranda, Isabel Villaescusa, Helena Pereira

P57 - Supramolecular receptors in solid phase: developing sensors for anionic radionuclides

Valeria Amendola, Giancarla Alberti, Greta Bergamaschi, Roberta Colleoni, Raffaella Biesuz

P58 - Synthesis of a water soluble naphthalimide modified 3-hydroxy-4-pyridinone metal ion sensor

Tânia Moniz, Carla Queirós, Rita Ferreira, Andreia Leite, Ana M.G. Silva, Maria Rangel

P59 - Kinetic gas-phase studies on the reaction of ferracyclobutadienes with alkynes

Yvonne Lorenz, Marianne Engeser, Ujjal Das, Alexander C. Filippou

P60 - Optimization of the spectrometric determination of Cr(III) with a SIA system combined with a dilutor-autosampler

Florencio De La Torre, Lindy Reunes, Núria Fiol, Isabel Villaescusa

P61 - Ferrocene-glutathione conjugates as electrochemical sensors for human Glutathione S-transferase P1-1

Indalecio Quesada-Soriano, Manuel C. Martos-Maldonado, Inmaculada Feria-Fernández, Federico García-Maroto, Antonio Vargas-Berenguel, Luís García-Fuentes

P62 - Development of catechol-based fluorescent chemosensors. Synthesis and evaluation of metal ion sensing behaviour

C. Queirós, A. M. G. Silva, M. Rangel

P63 - "Turn-on" sensor based on the opening of the spirocyclic form of rhodamine B

A. Leite, A. M. G. Silva, L. C. Silva, P. Gameiro, M. Rangel

P64 - Microwave-assisted synthesis of catechol-based rosamines for metal sensing

A. L. Amorim, A. Leite, A. M. G. Silva, B. de Castro, M. Rangel

P65 - Zigzag 1D-copper(II) polymer with alternating bridging units of two different ligands: Synthesis, crystal structure and properties of $\{[\text{Cu}_2(\mu_2\text{-trans-1,4-CDTA})(\mu_2\text{-4,4' -bipy})(\text{H}_2\text{O})_2]\cdot 4\text{H}_2\text{O}\}_n$

Hanan El Bakkali, Duane Choquesillo-Lazarte, Elena Bugella-Altamirano, Josefa María González-Pérez, Alfonso Castiñeiras, Juan Niclós-Gutiérrez

P66 - Recognition properties of polyazapolyoxa heteroditopic macrobicyclic compounds

Pedro Mateus, Rita Delgado, Patrick Groves, Paula Brandão, Vítor Félix

P67 - Lanthanide cation binding properties of homooxacalixarenes bearing pyridyl pendant groups at the lower rim

Paula M. Marcos, Filipa A. Teixeira, Manuel A. P. Segurado, José R. Ascenso, Véronique Hubscher-Bruder

P68 - Transition and heavy metal ions complexation by *p*-tert-butylhexahomotrioxacalix[3]arene tri(2-pyridylmethoxy) derivatives

Filipa A. Teixeira, Paula M. Marcos, Véronique Hubscher-Bruder, Françoise Arnaud-Neu, José R. Ascenso, Raul J. Bernardino

P69 - A new polycentred heptacopper(II)/adenine complex: synthesis and characterization of $[\text{Cu}_7(\mu_2\text{-O})_6(\mu_3\text{-O})_6(\text{adenine})_6](\text{NO}_3)_y \cdot x\text{H}_2\text{O}$

Paula Brandão, Bárbara Ferreira, Teresa M. Santos, Vítor M. Félix

P70 - Different crystallization modes of dinuclear copper(II) complexes of an azacryptand containing 1*H*-pyrazole units, depending copper salts, solvents and pH

Javier Pitarch, Raquel Belda, Salvador Blasco, Jesús Ferrando-Soria, Francisco Lloret, Pilar Navarro, Enrique García-España

- P71** - Design of Co(II) metal - organic frameworks
Alessandro De Robertis, Giuseppe Bruno, Viviana Mollica Nardo, Francesco Nicolò
- P72** - Study of metal cyano “supercomplexes” with a new macrocyclic bipyridinophane
Sandra Gago, Jorge González, Salvador Blasco, A. Jorge Parola, Enrique García-España, Fernando Pina
- P73** - Rotaxanes and catenanes containing units of azamacrocyclic complexes of Cu(II) and Ni(II)
Mateusz Woźny, Iwona Mames, Bohdan Korybut-Daszkiewicz
- P74** - Molecular necklaces containing transition metal ions
Iwona Mames, Mateusz Woźny, Bohdan Korybut-Daszkiewicz
- P75** - Amphiphilic phthalocyanines by three different substituents on each benzo moiety
Özge Kurt, Ahmet Gül, Makbule Burkut Koçak
- P76** - Study of the interactions of PyCHO with SDS and CTACl micelles
J. Antonio Lebron, Manuel Lopez-Lopez, Francisco Sanchez, Eva Bernal
- P77** - Mixed-monolayer gold nanoparticles for targeted MRI: synthesis and characterization
Janaína Gonçalves, Miguel F. Ferreira, Paula M. Ferreira, Carlos F. G. C. Geraldes, Lothar Helm, José A. Martins
- P78** - Possible overestimation of the site size in fluorescent dye/nucleic acid systems when using the McGhee and von Hippel equation
Tarita Biver, Matteo Lari, Fernando Secco, Marcella Venturini
- P79** - Complexation abilities of (1-4, 18-36) neuropeptide K toward copper(II) ions and products of metal-catalyzed oxidation
Marta Pietruszka, Elżbieta Jankowska, Teresa Kowalik-Jankowska
- P80** - Monitoring of the Ag complexes interactions with biomolecules: the targets of activity identification.
Iryna Goncharova
- P81** - Interaction of anticancer ruthenium complex NAMI-A with apo-transferrin.
Olga Mazuryk, Małgorzata Brindell, Katarzyna Kurpiewska, Grażyna Stochel
- P82** - Anticancer Au(III) complexes: synthesis and biological characterization
Julien Pierron, Andreia Almeida, Paul J. Dyson, Angela Casini
- P83** - Structure, cytotoxic activity and DNA binding of Pd(II) complexes bearing N'-methyl-1-thiocarbamoyl-3,5-dimethylpyrazole
Carolina V. Barra, Sahra C. Lemos, Fillipe V. Rocha, Olga Novakova, Lenka Zerkankova, Barbora Liskova, Viktor Brabec, Adelino V. G. Netto, Antonio E. Mauro, Regina C. G. Frem
- P84** - New copper (I/II) complexes: synthesis, crystal structure and cytotoxic properties
Bárbara Ferreira, Bruno Valente, Margarida Meireles, Marli Santo, Paula Brandão, Teresa Santos, Vitor Félix
- P85** - Vanadium and copper Schiff base complexes: evaluation of the interaction with HSA and DNA and its cytotoxicity
João Costa Pessoa, Somnath Roy, Sladjana Borovic, Sameena Mehtab, Isabel Cavaco, Nataliya Butenko, Rodrigo F.M. Almeida, Ana Isabel Tomaz, M. Helena V. Garcia, Fernanda Marques, Virtudes Moreno, Isabel Correia
- P86** - Interaction between monomers of a double-tailed surfactant derived of the Ru(bpy)₃²⁺ complex, [Ru(bpy)₂{bpy(C₁₁H₂₃)₂}]²⁺, and different receptors: cyclodextrin and DNA

Pilar López-Cornejo, Manuel López-López, Marta Olivares, María Suárez, Francisco Montilla

P87 - Studies of hydrolytic DNA cleavage activity of $V^{IV}O(acac)_2$

Nataliya Butenko, Isabel Correia, João Costa Pessoa, Isabel Cavaco

P88 - Coralyne induces triplex-to-duplex and duplex-to-triplex transitions in ds-RNA according to a temperature controlled cycle

Begoña García, Francisco J. Hoyuelos, José M. Leal, Tarita Biver, Fernando Secco, Marcella venturini

P89 - Synthesis of new ruthenium arene complex, DNA binding properties and in vitro cytotoxicity

Jesús Valladolid, Natalia Busto, Begoña García, José M. Leal, Gustavo A. Espino

P90 - The Ni^{2+} and Zn^{2+} competition in coordination to unstructured fragment of *Helicobacter's pylori* HypA

Danuta Witkowska, Magdalena Rowińska-Żyrek, Sławomir Potocki, Paulina Bilka, Daniela Valensin, Henryk Kozłowski

P91 - Hemoglobin-based copolymers with potential as blood substitutes: increased molecular weight, reduced prooxidant reactivity

Florina Scurtu, Oana Zolog, Bianca Iacob, Radu Silaghi-Dumitrescu

P92 - [15]aneN₄S as a potential agent for treatment of cadmium intoxications

Nuno Torres, Sandrina Gonçalves, Ana S. Fernandes, Matilde Castro, Judite Costa, Nuno G. Oliveira, M. Fátima Cabral

P93 - Cytotoxicity of salinomycin complexes with Co(II), Ni(II), Cu(II) and Zn(II) transition metal ions on leukemia tumor models

Juliana Ivanova, Georgi Momekov, Ivayla Pantcheva, Mariana Mitewa

P94 - Ability of Salinomycin and its metal complexes to decrease viability and proliferation of human tumor/non-tumor cell lines

Ivayla N. Pantcheva, Mariana Mitewa, Juliana Ivanova, Radostina Alexandrova

P95 - Promising, highly cytotoxic ruthenium-based complexes with bulky triazolopyrimidine ligand: synthesis, structural characterization and antiproliferative activity *in vitro*

Marzena Fandzloch, Iwona Łakomska, Tadeusz Muzioł, Tadeusz Lis, Julia Jezierska

P96 - Hexafluoroglutarate platinum(II) coordination compound with 5,7-ditertbutyl-1,2,4-triazolo[1,5-a]pyrimidine. Structural characterisation and significant *in vitro* cytotoxicity

Iwona Łakomska, Kamil Hoffmann, Jerzy Sitkowski

P97 - Synthesis, structure and physicochemical properties of Ru(III/II) and Au(III/I) phosphine complexes with pyrazole-based ligands

Monika Richert, Tadeusz Muzioł, Paulina Kaczmarek, Magdalena Kubiak, Marcin Janusz Cieślak, Julia Kaźmierczak-Barańska, Karolina Królewska, Elżbieta Budzisz

P98 - Cytotoxicity of vanadocene complexes substituted in cyclopentadienyl rings

Iva Klepalová, Jan Honziček, Jaromír Vinklár, Lucie Šebestová, Martina Řezáčová

P99 – Organoruthenium binuclear thiosemicarbazone complexes as potential anti-tumor agents

Bruno Demoro, Rodrigo F. M. de Almeida, Fernanda Marques, Cristina P. Matos, Cynthia Sarniguet, Lucía Otero, João Costa Pessoa, Dinorah Gambino, Ana Isabel Tomaz

P100 - Iron (II) complex that switches from a diamagnetic to a paramagnetic state upon chemical stimulus: an approach towards responsive MRI probes

Fayçal Touti, Philippe Maurin, Jens Hasserodt

- P101** - NO₂A-N-(α -benzamido)propionate chelators: new leads for stable, fast labelling, targeted agents for ⁶⁸Ga(III) PET?
Miguel F. Ferreira, Paula M. T. Ferreira, João P. André, Maria I. M. Prata, Carlos F. G. C. Geraldés, José A. Martins
- P102** - Synthesis, *in vitro* and *in vivo* characterization of new chelator DO3AAHA and its derivate DO3AAHA_{PEG750}
André Fontes, Paula M. Ferreira, Maria I. M. Prata, Carlos F. G. C. Geraldés, João P. André
- P103** - Estradiol based indium complexes towards the estrogen receptor
Filipe Vultos, Susana Cunha, Célia Fernandes, Lurdes Gano, Isabel Santos
- P104** - Structure-activity relationship studies for flavonol-derived Ru^{II}(arene) anticancer complexes
Andrea Kurzwernhart, Wolfgang Kandioller, Caroline Bartel, Gerhard Mühlgassner, Maria Novak, Simone Bächler, Michael A. Jakupec, Vladimir B. Arion, Doris Marko, Bernhard K. Keppler, Christian G. Hartinger
- P105** - Mono- and dinuclear platinum(IV) compounds containing an ethylene glycol moiety: synthesis, characterization and cytotoxicity
Verena Pichler, Petra Heffeter, Seied M. Valiahdí, Michael A. Jakupec, Vladimir B. Arion, Walter Berger, Markus Galanski, Bernhard K. Keppler
- P106** - Tri- and tetraaza macrocyclic complexes of ⁴³Sc, ⁴⁴Sc and ⁴⁷Sc radionuclides as precursors of PET diagnosis and therapeutic radiopharmaceuticals
Aleksander Bilewicz, Agnieszka Majkowska, Seweryn Krajewski, Agata Kasperek
- P107** - New studies of novel active platinum iodido complexes
Thalia Parro, María A. Medrano, Leticia Cubo, Josefina Perles, Carmen Navarro-Ranninger, Adoración G. Quiroga
- P108** - Cytotoxicity and plasmid DNA cleavage of three vanadyl(IV) complexes containing the oxodiacetate ligand on a human osteosarcoma cell line in culture
Ignacio E. León, Nataliya Butenko, Enrique J. Baran, Isabel Cavaco, Susana B. Etcheverry
- P109** - Pyrazolyl-diamine Pt(II) complexes bearing DNA-intercalating moieties: Synthesis, characterization and *in vitro* evaluation
Sofia Gama, Teresa Esteves, Filipa Mendes, Fernanda Marques, Isabel Santos, Joana Coimbra, António Matos, Mauro Ravera, Elisabetta Gabano, António Paulo
- P110** - Copper(II) complexes of histidine containing peptides as models of the Cu,Zn-SOD enzyme
Sarolta Timári, Katalin Várnagy
- P111** - Targeting the breakpoint in Duchenne muscular dystrophy
Béla Gyurcsik, Anikó Czene, Eszter Németh, István G. Zóka, Emöke Endreffy, Hans E.M. Christensen, Kyosuke Nagata
- P112** - Molybdenum substituted rubredoxin from *Desulfovibrio gigas*
C.C.S. Carreira, M.S.P. Carepo, R. Grazina, J.J.G. Moura, I. Moura
- P113** - Elucidation of probable responses to molybdate stress in *Desulfovibrio alaskensis* by proteome analysis
Rashmi R. Nair, Celia Silveira, Maria Gabriela Almeida, José J.G. Moura, Maria Gabriela Rivas
- P114** - Interaction of polytopic aza-scorpion receptors with nucleotides and nucleic acids
Jorge González, Enrique García-España, Marijeta Kralj, J. M. Llinares, Ivo Piantanida, Roberto Tejero, Lidija Uzelac