



V Latin American Meeting on Biological Inorganic Chemistry

October 18-22, 2016

**Pre-Conference Workshop:
“Tools to study metalloproteins and
biomimetic compounds”**

October 17-18, 2016

**Hacienda Jurica
Querétaro, México**

WORKSHOP PROGRAM

V Latin American Meeting on Biological Inorganic Chemistry

**Pre-Conference Workshop:
“Tools to study metalloproteins and biomimetic
compounds”
October 17-18, 2016**

**Hacienda Jurica
Querétaro, México**

*Workshop organizers:
Liliana Quintanar, Luis Ortiz Frade,
and Alejandro Vila*



**Red
Estructura
Función y
Evolución de
Proteínas**

MONDAY OCTOBER 17, 2016	
Time	Event
8:00 – 9:00	<i>Breakfast and Workshop Registration</i>
9:00 - 10:00	Electron Paramagnetic Resonance (EPR): Basic Principles <i>Peter Kroneck (Konstanz University, Germany)</i>
10:00 - 11:00	Bioinorganic applications of multi-frequency EPR <i>William Antholine (Medical College of Wisconsin, USA)</i>
11:00 - 11:30	<i>Coffee break</i>
11:30 - 13:30	Isothermal titration calorimetry applied to the study of metal-protein interactions <i>Dean Wilcox (Dartmouth College, USA)</i>
13:30 – 15:00	<i>Lunch</i>
15:00 – 17:00	Nuclear Magnetic Resonance (NMR): Basic Principles and applications to study metallo-proteins <i>Alejandro Vila (Universidad Nacional de Rosario, Argentina)</i>
17:00 – 17:30	<i>Coffee break</i>
17:30 – 19:30	Electronic Structure Calculations of Active Sites of Metalloproteins <i>Alberto Vela (Cinvestav, Mexico)</i>
19:30 – 21:00	<i>Dinner</i>

TUESDAY OCTOBER 18, 2016	
Time	Event
8:00 – 9:00	<i>Breakfast</i>
9:00 - 11:00	X-ray Absorption and Emission Spectroscopies: Basic Principles and Applications <i>Thomas Kroll (SLAC National Accelerator Laboratory, USA)</i>
11:00 - 11:30	<i>Coffee break</i>
11:30 - 13:30	Spectro-electrochemistry as a tool to study metalloproteins and biomimetic compounds <i>Luis Ortiz-Frade (CIDETEQU, Mexico)</i>
13:30 – 15:00	<i>Lunch</i>

CONFERENCE PROGRAM



V Latin American Meeting on Biological Inorganic Chemistry

October 18-22, 2016

Hacienda Jurica
Querétaro, México

Conference Chairs:
Liliana Quintanar, Cinvestav
Ivan Castillo, UNAM



V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY

LIST OF INVITED SPEAKERS

Norah Barba

Universidad Nacional Autónoma de México,
Mexico

Daniela Buccella

New York University, USA

Alison Butler

University of California, Santa Barbara, USA

Annelise Casellato

Universidade Federal do Rio de Janeiro,
Brazil

Peng Chen

Cornell University, USA

Yraima Cordeiro

Universidade Federal do Rio de Janeiro,
Brazil

Miquel Costas

Universitat de Girona, Spain

Fabio Doctorovich

Universidad de Buenos Aires, Argentina

Claudio Fernandez

Universidad Nacional de Rosario, Argentina

Katherine Franz

Duke University, USA

Dinorah Gambino

Universidad de la República, Uruguay

Laura Gasque

Universidad Nacional Autónoma de México,
Mexico

Wilhem Hansberg

Universidad Nacional Autónoma de México,
Mexico

Kenneth Karlin

Johns Hopkins University, USA

Hugo Klahn

Universidad Católica de Valparaíso, Chile

Carlos Kremer

Universidad de la República, Uruguay

Peter Kroneck

Konstanz University, Germany

Nils Metzler-Nolte

Ruhr-University Bochum, Germany

Fannis Missirlis

Cinvestav, Mexico

Wonwoo Nam

Ewha Womans University, Korea

Amy Rosenzweig

Northwestern University, USA

Lena Ruiz

Universidad Nacional Autónoma de México,
Mexico

Edward Solomon

Stanford University, USA

Alejandro Vila

Universidad Nacional de Rosario, Argentina

Ramón Vilar

Imperial College London, UK

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
TUESDAY, OCTOBER 18, 2016

Time	Event
12:00 – 16:00	Registration
16:00 – 16:10	Welcome note
16:10 – 16:50	Targeting and imaging G-quadruplex DNA with metal complexes Ramon Vilar Imperial College London, UK
16:50 - 17:20	Ternary complex of the prion protein with Cu(II) and nucleic acid: insights into prion function and dysfunction Yraima Cordeiro Universidade Federal do Rio de Janeiro, Brazil
17:20-17:50	New Catechol Siderophores and Analogs: Biosynthesis and Adhesive Properties Alison Butler University of California, Santa Barbara, USA
17:50- 18:30	Metallo-beta-lactamases in the periplasm: Raiders of the lost Zinc? Alejandro Vila Universidad Nacional de Rosario, Argentina
18:30 -	Welcome Cocktail

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
WEDNESDAY, OCTOBER 19, 2016

Time	Event
9:00 - 9:40	<i>Chemical Tools to Illuminate Intracellular Mg²⁺</i> Daniela Buccella New York University, USA
9:40 – 10:25	OC1. <i>Magnetic coupling, spin states and structure of the paramagnetic cofactors in the novel PQQ-dependent ADH from nitrogen fixing Gluconacetobacter diazotrophicus</i> Martha E. Sosa-Torres. Universidad Nacional Autónoma de México, Mexico OC2. <i>Synthesis and characterization molybdenum and iron complexes with N_xS_y ligands relevant to the active site of nitrogenase</i> Elvis Robles-Marín. Universidad Nacional Autónoma de México, Mexico OC3. <i>Novel chiral and achiral vanadyl lactates with vibrational circular dichroism: toward the chiral metal cluster in nitrogenase</i> Zhao-Hui Zhou. Xiamen University, China
10:25 – 10:55	<i>Transition metals and sulfur - a strong relationship for life</i> Peter Kroneck University of Konstanz, Germany
10:55 – 11:30	<i>Coffee break</i>
11:30 – 12:00	<i>A revised view of Metal-protein interactions in Parkinson's disease</i> Claudio Fernández Universidad Nacional de Rosario, Argentina
12:00 - 12:30	OC4. <i>Copper- and zinc-induced aggregation of the human gamma-crystallin proteins: Relevance to cataracts disease</i> Jose A. Domínguez-Calva. Cinvestav, Mexico. OC5. <i>Biogenesis of a copper center in plant cytochrome c oxidase</i> Maria Eugenia Llases. IBR, Rosario, Argentina

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
WEDNESDAY, OCTOBER 19, 2016

Time	Event
12:30 -13:00	<i>Versatile coordination of biological active imidazoles towards transition metal ions. Structural, chemical, electronic and biological properties</i> Norah Barba Universidad Nacional Autónoma de México, México
13:00 – 14:30	<i>Lunch</i>
14:30 – 15:10	<i>Geometric and Electronic Structural Contributions to Fe/O₂ Reactivity</i> Edward Solomon Stanford University, USA
15:10 – 15:30	<i>Poster Blitz</i> P6. Interaction of Δ- and Λ-[Fe(phen)₃]²⁺ with d(CGCGATCGCG)₂, studied by NMR <u>Dayra Escudero</u>, P. Levín, J. Guerrero, L. Lemus. Universidad de Santiago de Chile, Chile. P8. Activation of Small Molecules with Complexes Inspired by the Cu_M Site of Copper Monooxygenases <u>Brenda Nataly Sánchez Eguía</u>, Ebbe Nordlander, Ivan Castillo. Instituto de Química, UNAM, Mexico. P17. Water Soluble Iron-Nitroxyl Porphyrin Complex: Stability Studies <u>Agostina M. Mazzeo</u>, Juan Pellegrino, Fabio Doctorovich. DQIAQF/INQUIMAE, FCEN/CONICET, Argentina. P19. Alpha-and beta-cleavages of the human prion protein: Impact on Copper (II) binding properties <u>Carolina Sánchez-López</u>, Marco C. Miotto, Andres Binolfi, Claudio O. Fernández, Liliana Quintanar. Cinvestav, Mexico. P24. Half sandwich Ru(II) arene complexes coordinated to acylthiourea ligand: cytotoxic properties in lung cancer <u>Beatriz N. Cunha</u>, Rafael G. Silveira, Legna A. C. Vegas, Ana M. Plutin, Eduardo E. Castellano, Alzir A. Batista. Federal University of São Carlos, Brazil. P29. Mono- and Polynuclear Organometallic Antiparasitics <u>Tameryn Stringer</u>, Gregory S. Smith. University of Cape Town, South Africa
15:30 – 17:30	<i>POSTER SESSION</i>
17:30 -	<i>Tour to Downtown Querétaro</i>

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
THURSDAY, OCTOBER 20, 2016

Time	Event
9:00 - 9:40	<i>Metal-Oxygen Intermediates in Dioxygen Activation Chemistry</i> Wonwoo Nam Ewha Womans University, Korea
9:40 – 10:25	<i>OC6. Light Driven Oxygen Atom Transfer Reactions under Mild Conditions</i> Thierry Tron. Aix Marseille Université, CNRS, France <i>OC7. Simple copper complexes as structural and functional models for Lytic Polysaccharide Monooxygenases</i> A. Jalila Simaan. Aix Marseille Université, CNRS, France <i>OC8. Molecular factors modulating the stability of metal-containing enzymes: a theoretical and experimental approach</i> Mayra Avelar. Universidad Nacional Autónoma de México, Mexico
10:25 – 10:55	<i>Designing molecules to mine for copper along the host-pathogen interface</i> Katherine Franz Duke University, USA
10:55 – 11:30	<i>Coffee break</i>
11:30 – 12:00	<i>Single-molecule imaging of metalloregulators reveal novel mechanisms of transcription regulation in living cells</i> Peng Chen Cornell University, USA
12:00 - 12:30	<i>Heteroleptic oxido vanadium(IV) complexes as prospective drugs</i> Dinorah Gambino Universidad de la República, Uruguay
12:30 - 13:00	<i>OC9. Novel supramolecular self-assembled metallo-cages and their biomedical applications</i> Angela Casini. Cardiff University, UK <i>OC10. In vitro anticancer activity of CNS-Pt(II) pincer complexes including thioether functionalized iminophosphoranes</i> Jean-Michel Grévy. Universidad Autónoma del Estado de Morelos, Mexico

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
THURSDAY, OCTOBER 20, 2016

Time	Event
13:00– 13:30	<i>Metalloporphyrins and metalloproteins immobilized on surfaces: the best molecular catalysts for water reduction</i> Fabio Doctorovich Universidad de Buenos Aires, Argentina
13:30 – 15:00	GROUP PHOTO Lunch
15:00 – 15:40	<i>Transport and biosynthesis of the copper chelator methanobactin</i> Amy Rosenzweig Northwestern University, USA
15:40 - 16:10	OC11. Entropy Redistribution Drives Allostery in a Metalloregulatory Protein Daiana A. Capdevila. Indiana University, USA OC12. Adventures with Copper: Transport from bacteria to eukaryotic cells Teresita Padilla-Benavides. University of Massachusetts Medical School, USA
16:10 – 16:40	<i>Can Drosophila genetics contribute to the field of biological inorganic chemistry?</i> Fanis Missirlis Cinvestav, Mexico
16:40 – 17:00	Poster Blitz P34. Synthesis and characterization of new coordination compounds of 2-methyl-1-(2-(phenylsulfonyl)ethyl)-1H-imidazole and different metallic centers <u>Guillermo Durán-Solares</u>, C. Hess, N. Barba-Behrens. Facultad de Química, Universidad Nacional Autónoma de México, Mexico. P39. Cyclometalated ruthenium complexes bearing pyridinylboronic acid ligands as glucose sensors <u>Sánchez López Nicolás</u>, Le Lagadec Ronan, Instituto de Química, UNAM, Mexico. P47. O₂ activation by biologically-inspired metal complexes with a tetrabenzimidazole ligand <u>Erick Ramírez Zenteno</u>, Ivan Castillo. Instituto de Química, UNAM, Mexico.

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
THURSDAY, OCTOBER 20, 2016

Time	Event
16:40 – 17:00	Poster Blitz (cont.) P48. <i>Optimization of a bifunctional peptide with therapeutic potential against Alzheimer's Disease: Bioavailability in a blood-brain barrier model</i> <u>Yanahi Posadas-Torrentera</u>, Lorenza González-Mariscal*, Jael Miranda, María Eugenia Cruces Ángeles, Liliana Quintanar*, Claudia Perez-Cruz. Centro de Investigación y de Estudios Avanzados del IPN, Mexico. P52. <i>Evaluation of the antimetastatic mechanism of new ruthenium complexes</i> <u>Angelica E. Graminha</u>, João Honorato, Alzir A. Batista, Márcia R. Cominetti, Erica J. Peterson, Nicholas P. Farrell. Virginia Commonwealth University, USA. P59. <i>Catalytic cleavage of phenyl acetates, paraoxon and parathion by an artificial esterase</i> <u>Carlos Lugo-González</u>, Paola Gómez-Tagle, Anatoly K. Yatsimirsky. Facultad de Química, Universidad Nacional Autónoma de México, Mexico
17:00 – 19:00	POSTER SESSION

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
FRIDAY, OCTOBER 21, 2016

Time	Event
9:00 - 9:40	<i>Elucidation of Transient Iron Species Catalytically Competent in Biologically Inspired Oxidation Reactions</i> Miquel Costas Universitat de Girona, Spain
9:40 – 10:25	OC13. <i>Interaction studies between human serum albumine and nitrosyl ruthenium complexes. Potentiality for nitric oxide release and biological applications</i> Leandro Máximo. University of São Paulo, Brazil. OC14. <i>Activity of the enzyme lactate dehydrogenase with anticancer ruthenium and osmium compounds</i> Hugo Rico-Bautista. Universidad Nacional Autónoma de México, Mexico OC15. <i>Novel click reaction catalyst based on gold nanoparticles and oligonucleotides for preparation of hybrid nanostructures</i> Romina Lorca. Universidad de Santiago de Chile, Chile.
10:25 – 10:55	<i>Copper complexes as oxidation catalysts</i> Laura Gasque Universidad Nacional Autónoma de México, México
10:55 – 11:30	<i>Coffee break</i>
11:30 – 12:00	<i>Interaction of phytate with inorganic cations and polyamines: structural and equilibrium studies with pertinence to its biological function</i> Carlos Kremer Universidad de la República, Uruguay
12:00 – 12:30	OC16. <i>Metalloprotein Reduction Thermodynamics from Calorimetric (ITC) Measurements: Validation with Azurin and New Insight on Azurin Mutants</i> Dean E. Wilcox. Dartmouth College, USA OC17. <i>Protein dynamics, thermodynamics, structure, and reactivity in cytochromes from psychrophilic, hydrocarbonoclastic marine microbes</i> John S. Magyar. Barnard College, Columbia University, USA

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
FRIDAY, OCTOBER 21, 2016

Time	Event
12:30 – 13:00	OC18. <i>X-ray Spectroscopy: Nature and Role of the Axial Methionine–Fe Bond in Cytochrome c</i> Thomas Kroll. SSRL, SLAC National Accelerator Laboratory, USA OC19. <i>Surface characterization of hematin anhydride produced by two methods: relevance in malaria studies</i> Elizabeth Danae Guerra. McGill University, Montreal, Canada
13:00- 13:30	<i>A bioinorganic approach for a fuel cell</i> Annelise Casellato Universidade Federal do Rio de Janeiro, Brazil
13:30 – 15:00	<i>Lunch</i>
15:00 – 15:30	<i>Pharmacokinetic properties on the effect of position substituents of two Copper metal based drug Antitumor isomers</i> Lena Ruiz-Azuara Universidad Nacional Autónoma de México, México
15:30 - 16:00	OC20. <i>Titanium(IV) regulation by serum transferrin and citrate elucidates insight into the use of chemical transferrin mimetics for Ti(IV) anticancer drug development</i> Arthur Tinoco. University of Puerto Rico, USA OC21. <i>Gold(I)-N-heterocyclic Carbene Motifs in Heterometallic Complexes with Potential as Prostate and Renal Cancer Chemotherapeutics</i> Maria Contel. The City University of New York, USA
16:00 – 16:30	<i>Neurospora crassa catalase-peroxidase: molecular, kinetic and redox properties</i> Wilhelm Hansberg Universidad Nacional Autónoma de México, México
16:30 – 17:00	<i>Coffee break</i>

V LATIN AMERICAN MEETING ON BIOLOGICAL INORGANIC CHEMISTRY
FRIDAY, OCTOBER 21, 2016

Time	Event
17:00 – 17:30	<i>Cyclopentadienyl rhenium complexes functionalized with electron-donor groups and biological molecules</i> Hugo Klahn Pontificia Universidad Católica de Valparaíso, Chile
17:30 – 18:00	<i>Bioorganometallic Chemistry: Synthetic Strategies and Biomedical Applications for Metal-Peptide Bioconjugates</i> Nils Metzler-Nolte Ruhr-University Bochum, Germany
18:00 – 18:40	<i>Nitrogen oxide chemistry with heme and/or copper complexes: Bioinorganic aspects</i> Kenneth Karlin Johns Hopkins University, USA
18:40-19:00	<i>Closing Ceremony</i>
19:30 -	<i>Conference Dinner</i>

POSTER SESSION 1
WEDNESDAY, OCTOBER 19, 2016

Poster Number	Title/Authors
P1	<i>Synthesis, characterization and trypanocidal study of new complex Cu(II), Zn(II) and Co(II) containing ligands derived from pyrazole</i> <u>JJ. Hurtado*</u>, Laura Ibarra, Paola García, Omar Triana-Chavez. Universidad de Los Andes, Colombia.
P2	<i>Deciphering the Effect of an oxovanadium(IV) complex with the flavonoid chrysin (VOChrys) in Intracellular Cell Signalling Pathways in Osteosarcoma cell line</i> <u>Ignacio E. León</u>, Paula Diez, Susana B. Etcheverry, Manuel Fuentes*. CEQUINOR, CONICET, Argentina.
P3	<i>DFT-based Quantitative Structure-Activity Relationships for the antineoplastic Cu(II) coordination compounds Casiopeínas</i> <u>Juan Carlos García-Ramos</u>, Lillian Gisela Ramírez-Palma, Rodrigo Galindo-Murillo, Lena Ruiz-Azuara, Fernando Cortés-Guzmán. Facultad de Química, UNAM, Mexico.
P4	<i>Potential biological activity of first row transition metal compounds with 2,9-Bis-(2',5'-diazahexanyl)-1,10-phenanthroline</i> <u>Luis Gabriel Talavera Contreras</u>, Juan Carlos García Ramos, Yanis Toledano Magaña, Marcos Flores Álamo, Luis Ortiz Frade, Carmen Mejía, Lena Ruiz Azuara. Facultad de Química, UNAM, Mexico.
P5	<i>Study of the interaction and plasmidial DNA cleavage produced by bimetallic helicates of Fe^{II}</i> <u>P. Levín</u>, D. Escudero, L. Lemus. Universidad de Santiago de Chile, Chile.
P6	<i>Interaction of Δ- and Λ-[Fe(phen)₃]²⁺ with d(CGCGATCGCG)₂, studied by NMR</i> <u>D. Escudero</u>, P. Levín, J. Guerrero, L. Lemus. Universidad de Santiago de Chile, Chile.
P7	<i>Exploring new heterobimetallic ferrocene derivatives as prospective antitrypanosomal agents</i> <u>Esteban Rodríguez Arce</u>, Eugenia Putzu, Michel Lapier, Juan Diego Maya, Gustavo A. Echeverría, Oscar E. Piro, Claudio Olea Azar, Lucía Otero, Dinorah Gambino. Universidad de la República, Uruguay.

P8	<i>Activation of Small Molecules with Complexes Inspired by the Cu_M Site of Copper Monooxygenases</i> <u>Brenda Nataly Sánchez Eguía</u>, Ebbe Nordlander, Ivan Castillo. Instituto de Química, UNAM, Mexico.
P9	<i>Bis(benzimidazole)-copper complexes inspired by the active site of lytic polysaccharide monooxygenase enzymes</i> <u>Andrea Carolina Neira Desalvador</u>, Ivan Castillo Pérez. Instituto de Química, UNAM, Mexico.
P10	<i>Selective esterification of carboxyl group in coordinated ligand as a tool to improve cytotoxicity in Ru(II)-based complexes</i> <u>João Honorato</u>, Legna Colina, Rodrigo Correa, Marcelo Miyata, Fernando Pavan, Javier Ellena, Alzir Batista. DQ-UFSCar, Brazil.
P11	<i>Distortions in the Geometries of Vanadium-Phosphatase Proteins and Diverse Decavanadates X-ray Structures Using Shape Analysis</i> <u>Irma Sanchez-Lombardo</u>, Santiago Alvarez, Craig C. McLauchlan, Debbie C. Crans. Universidad Juarez Autonoma de Tabasco, Mexico.
P12	<i>Synthesis and characterization of new metal transition coordination compounds with dimetridazole</i> <u>S. B. Flores Leyva</u>, H. Lopez Sandoval and N. Barba-Behrens. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.
P13	<i>Mitochondria as a chromate (VI) reducing system</i> <u>William E. Antholine</u>, Jeannette Vasquez-Vivar. ^aDepartment of Biophysics, Medical College of Wisconsin, USA.
P14	<i>Synthesis and characterization of the ligand 5, 6-dimethyl-1-(ethylsulfonylphenyl)benzimidazole and its coordination compounds with Co²⁺, Cu²⁺, Ni²⁺ and Zn²⁺</i> <u>Aguilar-Herrera Mónica Paulina</u>, Noráh Barba-Behrens. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.
P15	<i>Coordination compounds of mebendazole, ricobendazole and 5,6-dimethylbenzimidazole with transition metal ions</i> <u>Robles-López, Karen</u>, López-Sandoval, Horacio, Barba-Behrens, Noráh. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.
P16	<i>Essential Metallodrugs: Correlation Between Redox Potential and Biological Activity with a N₂O₂ Ligand</i> <u>Arturo Verduzco Ramírez</u>, Juan Carlos García Ramos, Luis Fernando Olguín Contreras, Lena Ruiz Azuara. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.

P17	<i>Water Soluble Iron-Nitroxyl Porphyrin Complex: Stability Studies</i> <u>Agostina M. Mazzeo</u>, Juan Pellegrino, Fabio Doctorovich. DQIAQF/INQUIMAE, FCEN/CONICET, Argentina.
P18	<i>Interaction of LQM303b and LQM307 with Cu(II) in aqueous solutions, by UV spectrophotometric studies</i> <u>Manuel Alejandro Hernández-Olivares</u>, Alberto Rojas-Hernández, María Teresa Ramírez-Silva, Enrique Ángeles. Universidad Autónoma Metropolitana Iztapalapa, Mexico.
P19	<i>Alpha-and beta-cleavages of the human prion protein: Impact on Copper (II) binding properties</i> <u>Carolina Sánchez-López</u>, Marco C. Miotto, Andres Binolfi, Claudio O. Fernández, Liliana Quintanar. Centro de Investigación y de Estudios Avanzados (Cinvestav), Mexico.
P20	<i>Biomimetic activation of amidoximes for ester hydrolysis</i> <u>Alejandra Pilar López Pacheco</u>, Paola Gómez-Tagle, Anatoly K. Yatsimirsky. Facultad de Química, UNAM, Mexico.
P21	<i>Evaluating the effect of heavy metals ions in the aggregation of human gamma D-, C- and S-crystallin proteins: Relevance to cataracts disease</i> <u>M.L. Perez-Vazquez</u>, J.A. Domínguez-Calva, J. A. King, L. Quintanar. Centro de Investigación y de Estudios Avanzados (Cinvestav), Mexico.
P22	<i>Structure and magnetic properties of the PQQ-dependent ADH from nitrogen fixing Gluconacetobacter diazotrophicus</i> <u>P. D. Sarmiento-Pavía</u>, <u>L. A. Rodríguez-Cortés</u>, M. Sánchez-Ostria, A. Solano-Peralta, M. E. Sosa-Torres*. Facultad de Química, UNAM, Mexico.
P23	<i>New polipyridil phosphine Ru(II) complexes: synthesis, characterization and biological activity</i> <u>Rafael Gomes da Silveira</u>, Beatriz Nogueira da Cunha, Rodrigo S. Corre, Marcia Cominetti, Victor M. Deflon, Fernando R. Pavan, Alzir A. Batista. UFSCar, Brazil.
P24	<i>Half sandwich Ru(II) arene complexes coordinated to acylthiourea ligand: cytotoxic properties in lung cancer</i> <u>Beatriz N. Cunha</u>, Rafael G. Silveira, Legna A. C. Vegas, Ana M. Plutin, Eduardo E. Castellano, Alzir A. Batista. Federal University of São Carlos, Brazil.
P25	<i>Effect of Cu(II) and a non-natural tetrapeptide in the aggregation of the prion protein fragment 106-126</i> <u>Atenea Villegas-Vargas</u>, Alejandra Durand, Luis Vallejo-Castillo, Liliana Quintanar. Centro de Investigación y de Estudios Avanzados (Cinvestav), Mexico.

P26	<i>Supramolecular structures of tris(2-benzimidazolymethyl)amine coordination compounds of Co²⁺, Cu²⁺ and Zn²⁺</i> <u>Navarro-Peñaloza, Rubí</u>, Barba-Behrens, Noráh Y. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.
P27	<i>Effect of bifunctional peptides in the interaction of the amyloid-beta (1-40) and Cu(II) ion</i> <u>María Eugenia Cruces Ángeles</u>, Victor E. López Guerrero, Liliana Quintanar. Centro de Investigación y de Estudios Avanzados (Cinvestav), Mexico.
P28	<i>Reactivity study of bimetallic copper(II) complexes inspired by the active site of pMMO</i> <u>Tania Ivonne Benítez Páez</u>, Ivan Castillo Pérez. Instituto de Química, UNAM, Mexico.
P29	<i>Mono- and Polynuclear Organometallic Antiparasitics</i> <u>Tameryn Stringer</u>, Gregory S. Smith. University of Cape Town, South Africa
P30	<i>Electrochemical and spectroscopic study of metal complexes with potential SOD activity</i> <u>Marisela Cruz Ramírez</u>, Mayra E Manzanera-Estrada, Marcos Flores-Alamo, Lena Ruiz-Azuara*, Luis Ortiz-Frade*. Centro de Investigación y Desarrollo Tecnológico en Electroquímica, Mexico.
P31	<i>Redesigned Cu_A site shows degenerate alternative ground-states</i> <u>A.J.Leguto</u>, U.Zitare, M.A.Smith, M.N.Morgada, K.M.Lancaster, D.H.Murgida, A.J.Vila. Universidad Nacional de Rosario-CONICET, Argentina.
P32	<i>The oxidation of hydroxilamines with H₂O₂ mediated by Myoglobin</i> <u>Lucía Álvarez</u>, Sebastián Suarez, Fabio Doctorovich, Marcela Martí. Departamento de Química Inorgánica, Analítica y Química Física/ INQUIMAE-CONICET, Argentina.
P33	<i>Electrochemical Behavior of a biomimetic hydrogenase Ni(II) complex containing a flexible N6 ligand</i> <u>Juan-Pablo Rebolledo-Chávez</u>, Lellany's Alejo- Piña, Lena Ruiz-Azuara, Luis Antonio Ortiz-Frade. Centro de Investigación y Desarrollo Tecnológico en Electroquímica, Mexico.

POSTER SESSION 2
THURSDAY, OCTOBER 20, 2016

Poster Number	Title/Authors
P34	<i>Synthesis and characterization of new coordination compounds of 2-methyl-1-(2-(phenylsulfonyl)ethyl)-1H-imidazole and different metallic centers</i> <u>G. Durán-Solares</u>, C. Hess, N. Barba-Behrens. Facultad de Química, Universidad Nacional Autónoma de México, Mexico.
P35	<i>Synthesis, electrochemical studies and anticancer assays of pincer N-C-N iron complexes</i> <u>Aldo S. Estrada Montaña</u>, Ronan Le Lagadec. Instituto de Química, Universidad Nacional Autónoma de México, Mexico.
P36	<i>Expanding the therapeutic potential of deferasirox in Ti(IV) anti-cancer drug design</i> <u>Sergio A. Loza-Rosas</u>, Alexandra M. Vázquez, Kennett I. Rivero, Lenny J. Negrón, Charlene Munet-Colón, Timothy B. Parks, Arthur D. Tinoco., University of Puerto Rico, Puerto Rico.
P37	<i>Ruthenium(II) pincer complexes as potential anticancer agents</i> <u>Manuel Alejandro Roque-Ramires</u>, Ronan Le Lagadec. Instituto de Química, Universidad Nacional Autónoma de México, Mexico.
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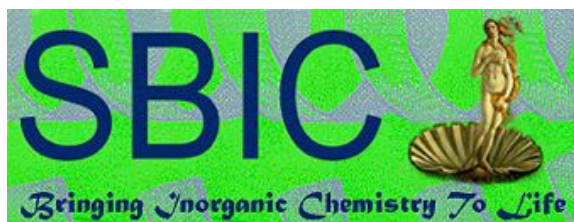
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