

## Program Addendum

### Wednesday, 24 January

2:30 PM – 3:20 PM

Invited Speaker Sessions  
*Grand Caribe 7-8, Isla Ballroom 1-6*

### Thursday, 25 January

2:30 PM – 3:20 PM

Invited Speaker Sessions  
*Grand Caribe 7-8, Isla Ballroom 1-6*

### Friday, 26 January

9:00 AM – 10:00 AM

Plenary Session: Laura Kiessling  
*Paul Weiss, Presiding*  
*Grand Caribe 5-6*

1:30 PM – 2:25 PM

Plenary Session: Galo Soler Illia  
*Lena Ruiz Azuara, Presiding*  
*Grand Caribe 5-6*

2:30 PM – 3:20 PM

Invited Speaker Sessions  
*Grand Caribe 7-8, Isla Ballroom 1-6*

## Poster Presentations – Late Breaking

### Wednesday, 24 January

*Grand Caribe 1-4*

#### Chemistry in Biology 4:10 PM - 5:30 PM

- 161.** Spirocyclohexadienones as an unusual scaffold for acetylcholinesterase inhibition. **R. Gomes**, R. Parruca Sakata, W. Pereira Almeida, F. Coelho
- 162.** Search of secondary metabolites with potential biological activity by screening of plants using <sup>1</sup>H-NMR spectroscopy. R. Murillos-Masís, **L.D. Padilla-Cortes**
- 163.** Self-cleavage in an alpha-amylase. **Z. Sánchez**, A. Hernández, S. Sánchez, R. Rodríguez
- 164.** Chemical labeling of silica (SiO<sub>2</sub>) and magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanoparticles with fluorescein for biomedical applications. **P. Crespo-Morán**, M. Méndez-Rojas, L. Tolentino Barrera, E. Sevilla-Bonilla, L. García-De-La-Rosa, M. Veloz-Castillo
- 165.** Synthesis of all stereoisomers of pallantione, the male-produced sex pheromone of *Pallantia macunaima* (Heteroptera: Pentatomidae). R.A. Soldi, **D. Szczerbowski**, P.H. Zarbin
- 166.** Biocompatible magnetic nanoparticles as intranasal drug delivery carriers for the brain. **M. Fernanda Veloz-Castillo**<sup>1</sup>, M. Méndez-Rojas, J. Cordero-Arreola, S. Hidalgo-Tobón, O. Arias-Carrión
- 167.** Derivatization and evaluation of Ersindole: A rapid inducer of endoplasmic reticulum stress and immunogenic cell death. **W. Montgomery**, C. Knezevic, E. Parkinson, B. Granger, H. Lee, S. Martin, P. Hergenrother

- 168.** Highly diastereoselective aminocatalytic protocol for the synthesis of spiro-isoxazol-5-ones. **A.F. Silva**, I.D. Jurberg
- 169.** Synthesis and evaluation of *N*-phenylquinazolin-4-amine derivatives as cytotoxic agents in cancer cell lines. **A. Matus-Meza**, F. Hernández-Luis, D. Figueroa-Figueroa, U. Martínez-Ortega
- 170.** Synthesis, characterization and biological evaluation of heterocyclic chalcones' analogs as anticancer agents in breast cancer cell line MDA-MB-231. **Q. Torres Sauret**, J.A. González-Garrido, I.M. Olivares-Corichi, J.R. García-Sánchez
- 171.** Antiproliferative evaluation and *in silico* studies of new synthesized tetrahydroquinolines targeting GPER1 on breast cancer cell lines. **O.J. Zacarias**
- 172.** Mass spectrometry imaging by LA-ICP and DESI of liver cancer. **P.H. Vendramini**, G.S. Pessoa, R.M. Oliveira, A.L. Rennó, J.H. García, M.A. Arruda, M.N. Eberlin, A. Sussulini, A.M. Martins
- 173.** Anopurpuricin A: New acetogenin from the roots of *Annona purpurea*; structural characterization and anticancer activity. **G.A. Hernandez Fuentes**, A.L. Peraza, I. Delgado, R. Muñoz, F.J. Martinez, A. Toninello, A.N. García, L. Dalla Via, H. Parra
- 174.** Validation of 3M™ MLSII (microbial luminescence system) method vs. traditional method, for microbial evaluation of UHT pasteurized beverages. **Z.D. Becerril**, O. Velázquez, I. García Negrete, I. García Espinoza, A. Reyo Herrera
- 175.** Hydrolysis and biotransformation of citrus flavonoids by *Penicillium digitatum*, *P. italicum* and *P. expansum*. **J.H. Costa**, T.P. Fill
- 176.** Microbiological control service for Food Tech Lab: Relevance of microbiological analysis for food products, made by students of Food Microbiology Lab. **C. Sanchez-Paredes**, O. Velázquez, E.I. Juárez Arroyo, A. Farrés Gonzáles-Saravia, A.L. Cruces Martínez, P. Severiano Pérez, M.O. García García
- 177.** Sensitization of students at food processing: Importance of Food quality in food technology laboratory. O.D. Velázquez Madrazo, **M.O. García García**, **C. Sanchez-Paredes**
- 178.** Dairies safety and quality: Filth test in fresh cheese produced by Mexican SME (PyME). **L.I. Garzón**, O. Velázquez, C. Sanchez-Paredes

### Green Chemistry

4:10 - 5:30

- 179.** Green synthesis of nanoparticles of Ni from extracts of *M. Esculenta*. **J.A. Avila Guzmán**, M. Lucio García, B. Escobar Morales, J. Araujo León
- 180.** Green synthesis of nanostructured magnesium carbonate. **J.E. Ortiz Castillo**, Y.I. Vega-Cantú, F.J. Rodríguez-Macías
- 181.** Novel Mn-porphyrin catalyst used in cyclohexane oxidation by PhIO under a green chemistry approach. **B.S. Moraes**, A.M. Meireles, A.S. Guimarães, G. DeFreitas-Silva
- 182.** Green chemistry ACS Student Chapter at the Federal University of Rio de Janeiro, Brazil: Prospects and outreach activities. **A.A. Marciniak**, P.R. Seidl, L.B. Furtado, F.A. Schoene

### Thursday, 25 January

#### Grand Caribe 1-4

### Materials & Nanoscience

4:10 - 5:30

- 183.** Green chemistry synthesis: Hydrothermal-microwave route for nickel hydroxide nanoparticles. **A. Samos Puerto**, **G. Rodríguez-Gattorno**, **M.A. Ruiz-Gómez**
- 184.** Molecular dynamics: An approach for the understanding of drug delivering systems. **F.A. Gonzalez**, L. Gil
- 185.** Synthesis, characterization and biological evaluation of homo- and heterofunctionalized polyamide dendrimers for application in inflammatory diseases. **A.M. Garzón Porras**, C. Ornelas
- 186.** Synthesis of colloidal silver nanoparticle clusters and their application in ascorbic acid detection by SERS. **A. Nieto-Argüello**, D. Lomelí-Marroquín, B. Pramanick, L. Cantú-Castillo, H. Hwang, J.L. Cholula-Díaz

**187.** Preparation and characterization of nanoparticles of (-)-epicatechin loaded chitosan for studies in breast cancer. **A. Perez Ruiz**, I. Olivares Corichi, F. Ganem Rondero, J. García Sánchez

**188.** Evaluation of solid lipid nanoparticles as absorption promoters of phenytoin through the hematoencefalic barrier: Pharmaceutical application. **E. Toledo**

**189.** Morphological, thermal and mechanical properties of alginate-oxidized nanocellulose gels for biomedical applications. **P. Silqueira**, G.G. Elyseu, A. Martins, É. Siqueira, V. Botaro, F. Pereira

**190.** Simple method for obtention of carbon nanoribbons from multiwalled carbon nanotubes (MWCNTs). Y.I. Vega-Cantú, **A. Gutiérrez**, **A. Benavides**, J.C. Chacon-Torres

#### **Physical & Analytical Chemistry**

**4:10 - 5:30**

**191.** Polyester-toner microchips for biomolecule analysis. **C. Sotério**, J.R. Catai, F.Z. Souza, E. Carrilho

**192.** Purification and characterization of hypoglycin A & hypoglycin B. A. Goldson-Barnaby, **D.A. Warren**, K. Duffus

**193.** Determination of acidity level in simulated seawater by spectrophotometry. **R.A. Martínez Galarza**

**194.** Theoretical study of the synthesis and structure of polycyclic saturated "cages". **N.I. Baeza**

**195.** Intermolecular hydrogen bonding during proton coupled electron transfer in  $\alpha$ -hydroxyquinones. **F.H. Perez**, C.F. Vazquez

**196.** Exploring the use of isomerism in heteroleptic complexes for rational design. **M. Davis**

**197.** Construction and characterization of solid-state sensors based on tungsten oxides used for the determination of acidity in dairy samples. **D.V. Gutiérrez Núñez**, A. García-Mendoza, J.C. Aguilar Cordero, A. Baeza

**198.** Tyrosinase biosensor in screen printed carbon modified electrodes with gold-nanoparticles for polyphenols determination in fresh fruits extracts. A. Alvarado Gamez, **V.P. Suarez Romero**, G. Fuentes

**199.** Determination of the flux content in aluminum brazed heat exchangers for the automotive industry. **E.d. Vega**

**200.** Charge transfer mechanisms determined by chemical reactivity theory within DFT. **A. Vela**, U. Orozco-Valencia, J. Gázquez

**201.** Low-cost minimal instrumentation without salt bridge for microphoto-coulometric detection of SO<sub>2</sub>. **F.J. Olvera-García**, A. García-Mendoza, A. de Santiago-Zárate, A. Baeza

**202.** Evaluation of national refining system's naphtha reformer units: Internship report. **L. Martinez Lorenzo**

**203.** Chemistry metrology and physicochemistry. **G. López Reyes**, M. Olvera Teviño, L. Ortega Galindo, A. Acosta Canales

**204.** Development and validation of an HPLC-MS/MS method for the identification and quantitation of 3,3'-diindolylmethane in newborn-rat plasma. **A.E. Morales Villarreal**, A. Caballero Quintero, F. Castorena Torres

**205.** Validated method to determine neurotransmitter in human plasma by HPLC-MS/MS with specific application to suicide cases. **M.P. Ibarra**