



No.	Poster presentations
1	<p><b>Determination of Secondary Metabolites with <i>In Vitro</i> and <i>In Vivo</i> Anticoagulant Effect from Snow Mountain Garlic (<i>Allium ampeloprasum</i> L)</b></p> <p>CLARK-MONTOYA Isabel<sup>1</sup>, TERÁN-FIGUEROA Yolanda<sup>2</sup>, JUÁREZ-FLORES Bertha Irene<sup>3</sup>, LEMUS-ROJERO Obed<sup>1</sup>, <u>DE LOERA Denisse</u><sup>3</sup>, ALEGRÍA-TORRES Jorge Alejandro<sup>5</sup>, MILÁN-SEGOVIA Rosa del Carmen<sup>1</sup>.</p> <p><sup>1</sup>Facultad de Ciencias Químicas, <sup>2</sup>Facultad de Enfermería y Nutrición, <sup>3</sup> Instituto de Investigación de Zonas Desérticas, UASLP, San Luis Potosí, México, <sup>4</sup> Unidad Académica de Odontología, Universidad Autónoma de Zacatecas, Zacatecas, México, <sup>5</sup> Departamento de Farmacia, Universidad de Guanajuato, Guanajuato, México.</p>
2	<p><b>Investigating the Substrate Specificity of Pulegone Reductase in the Monoterpenoid Pathway of <i>Mentha piperita</i></b></p> <p><u>ANDREWS, Adrienne J.</u>, NARAYANAN, Srividya., LANGE, Iris., and LANGE, B. Markus  <i>Institute of Biological Chemistry and M. J. Murdock Metabolomics Laboratory, Washington State University, Pullman, WA 99164</i></p>
3	<p><b>Gut Microbial Biotransformation of Phytochemicals Used in Gastrointestinal Diseases</b></p> <p><u>MINGOLELLI, Gabrielle</u> and HENKE, Matthew.  <sup>1</sup><i>Dept of Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, Chicago, IL 60607.</i></p>
4	<p><b>Structure-Function Analysis of the TXS Enzyme in Taxol Biosynthesis</b></p> <p><u>GUEORGUIEVA, Gloria-Alexandra.</u>, HILFORD, Peyton., WENDELL, Ethan., PARKER, Dylan., ZERBE, Philipp.  <sup>1</sup><i>Department of Plant Biology, University of California, Davis; Davis, CA 95616 USA.</i></p>
5	<p><b>Freshwater fungi: a potential source of new antimicrobials</b></p> <p><u>YEVERINO, Rubi I.</u>, and FIGUEROA., Mario.  <sup>1</sup><i>Departamento e Farmacia, Facultad de Química, Universidad Nacional Autónoma de México, CDMX, 04510, México.</i></p>
6	<p><b>The Methionine Synthase During Climacteric Fruit Ripening</b></p> <p><u>SALAZAR PUENTE, Adriana Monserrat</u><sup>1</sup>., GUERRERO-MOLINA, Estefany Damaris<sup>4</sup>., FRIAS-MUÑOZ, M. Guadalupe<sup>3</sup>., BOCANEGRA-GARCIA, Rosa M<sup>3</sup>., HERNANDEZ LOPEZ, Hiram<sup>3</sup>., DIAZ DE LA GARZA, Rocío I<sup>1,2</sup>., and GARZA-AGUILAR, Sara Margarita<sup>1</sup>.  <sup>1</sup><i>Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, México;</i> <sup>2</sup><i>Institute for Obesity Research, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey 64849, NL, México;</i> <sup>3</sup> <i>Unidad Académica de Ciencias Químicas, Universidad Autónoma de Zacatecas, Campus UAZ siglo XXI, Zacatecas, 98160, Zac;</i> <sup>4</sup><i>Facultad de Química, Departamento de Bioquímica, Universidad Nacional Autónoma de México, Av. Universidad y Copilco, Ciudad de México 04510, México.</i></p>

7	<p><b>Insulin Sensitizing Activity of Teuhetenone A</b></p> <p>AGUIRRE GÓMEZ, Marco, A.<sup>1</sup>, DELGADO MONTEMAYOR, Cecilia<sup>1</sup>, GRANADOS GUZMAN, Graciela<sup>1</sup>, WAKSMAN MINSKY, Noemí, H.<sup>1</sup>.</p> <p><sup>1</sup><i>Departamento de Química Analítica, Facultad de Medicina, Universidad Autónoma de Nuevo León, C.P. 64460, Monterrey, N.L., México.</i></p>
8	<p><b>Decoding the glyceollin biosynthetic pathway in soybean: insights into isoflavone hydroxylases</b></p> <p>KHATRI, Praveen<sup>1,2</sup> and DHAUBHADEL, Sangeeta<sup>1,2</sup></p> <p><sup>1</sup><i>London Research and Development Centre, Agriculture and Agri-Food Canada, 1391 Sandford Street, London, ON, N5V 4T3, Canada.</i> <sup>2</sup><i>Department of Biology, University of Western Ontario, 1151 Richmond Street, London, ON, N6A 5B7, Canada.</i></p>
9	<p><b>Effect of LED Light on Carbohydrate Accumulation for the Induction of Tuberized Root of Jicama (<i>Pachyrhizus erosus</i>) in Aeroponic Cultivation with a Controlled Environment</b></p> <p>DÍAZ DE LEÓN DÍAZ DE LEÓN Daniela A., ARIAS-CASTRO<sup>1</sup> Carlos., RODRIGUEZ-MENDIOLA<sup>2</sup> Martha A., MANCILLA-MARGALLI<sup>3</sup> Norma A., and CHÁVEZ-RODRÍGUEZ<sup>4</sup> Arturo M.</p> <p><sup>1</sup><i>Instrumental Analysis Laboratory,</i> <sup>2</sup><i>Plant Biotechnology Laboratory,</i> <sup>3</sup><i>Plant Biochemistry Laboratory,</i> <sup>4</sup><i>Pilot Plant. Technological Institute of Tlajomulco, Tlajomulco de Zúñiga, Jalisco 45640, México.</i></p>
10	<p><b>Phylotranscriptomics Analysis of the Betalain Biosynthesis in Caryophyllales.</b></p> <p>GUTIERREZ-VENCES, Alma Y.<sup>1</sup>, RODRIGUEZ-LOPEZ, Carlos E.<sup>1</sup></p> <p><sup>1</sup><i>Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Ave. Eugenio Garza Sada 2501, Monterrey, N.L. 64849, México.</i></p>
11	<p><b>Investigating genetic and environmental effects on photosynthetic pigment concentrations in <i>Lactuca sativa</i> and <i>Spinacia oleracea</i>.</b></p> <p>FUENTES, Abelina<sup>1*</sup>, BERLINGERI, Jonny<sup>1*</sup>, KAMANGIR, Hamid<sup>2</sup>, RANARIO, Earl<sup>1,2</sup>, MOORE, Bradley<sup>1</sup>, GONZALEZ, Emmanuel<sup>3</sup>, TRUCO, Maria<sup>1</sup>, LAVELLE, Dean<sup>1</sup>, KRILL-BROWN, Allison<sup>1</sup>, SHIN, Oon-ha<sup>1</sup>, TAYLOR, Gail<sup>1</sup>, VAN DEYNZE, Allen<sup>1</sup>, BRUMMER, E. Charles<sup>1</sup>, MAGNEY, Troy<sup>1</sup>, WONG, Chris<sup>1</sup>, BAILEY, Brian<sup>1</sup>, EARLES, Mason<sup>2</sup>, MICHELMORE, Richard<sup>1</sup>, PAULI, Duke<sup>3</sup>, RUNCIE, Daniel<sup>1</sup>, &amp; DIEPENBROCK, Christine<sup>1</sup></p> <p><sup>1</sup><i>Dept. Plant Sciences, UC Davis,</i> <sup>2</sup><i>Dept. Biol. &amp; Ag. Engineering, UC Davis,</i> <sup>3</sup><i>School of Plant Sciences, Univ. Arizona.</i></p>
12	<p><b>Biosynthesis of Kratom opioids</b></p> <p>Kim Kyunghye<sup>1</sup>, Shahsavarani Mohammadamin<sup>2</sup>, Garza-Garcia Jorge J.O.<sup>2</sup>, Carlisle Jack E.<sup>2</sup>, Guo J<sup>2</sup>, De Luca Vincenzo<sup>1</sup> and Qu Yang<sup>2</sup></p> <p><sup>1</sup><i>Department of Biological Sciences, Brock University, St. Catharines, ON, L2S 3A1, Canada;</i> <sup>2</sup><i>Department of Chemistry, University of New Brunswick, Fredericton, NB, E3B 5A3, Canada.</i></p>
13	<p><b>An experimental methodology to validate the use of hydroethanolic mixtures as suspending medium/modifier for the supercritical CO<sub>2</sub> extraction of suspension</b></p> <p>YEVERINO, Rubi I., and FIGUEROA., Mario</p> <p><sup>1</sup><i>Departamento e Farmacia, Facultad de Química, Universidad Nacional Autónoma de México, CDMX, 04510, México.</i></p>

14	<p><b>Betalain production and antioxidant capacity through root cultivation in an aeroponic system with LED light and <i>in vitro</i> cultivation of red chard (<i>Beta vulgaris</i> var. Cicla)</b></p> <p><u>AVALOS RIVERA Daniela E.</u>, RODRIGUEZ-MENDIOLA Martha A.<sup>1</sup>, ARIAS-CASTRO Carlos<sup>2</sup>, FLORES-MARTINEZ Héctor<sup>3</sup>, and ARIAS-RODRIGUEZ Laura I.<sup>4</sup></p> <p><sup>1</sup>Plant Biotechnology Laboratory, <sup>2</sup>Instrumental Analysis Laboratory, <sup>3</sup>Food and Natural Products Laboratory, Technological Institute of Tlajomulco, Tlajomulco de Zúñiga, Jalisco 45640, México. <sup>4</sup>Smart Biotechnology S.A de C.V, 45600 Tlaquepaque, Jalisco 45600, México.</p>
15	<p><b>Habituation of <i>in vitro</i> Shoots and Suspension Cells of Lavender (<i>Lavandula angustifolia</i> Mill.) for Blue Pigment Production.</b></p> <p><u>MORALES-DIEGO<sup>1</sup> Ada L.</u>, RODRIGUEZ-MENDIOLA<sup>1</sup> Martha A., ARIAS-CASTRO<sup>2</sup> Carlos., MANCILLA-MARGALLI<sup>3</sup> Norma A., ANDRADE-GONZALES<sup>4</sup> Isaac.</p> <p><sup>1</sup>Plant Biotechnology Laboratory; <sup>2</sup>Instrumental Analysis Laboratory; <sup>3</sup>Plant Biochemistry Laboratory; <sup>4</sup>Pilot Plant. Technological Institute of Tlajomulco, Tlajomulco de Zúñiga, Jalisco 45640, México.</p>
16	<p><b>Proanthocyanidins and Hilum Ring Colour in Pinto Bean: P recruits MYB-H</b></p> <p><u>MINGOLELLI, Gabrielle</u> and HENKE, Matthew.</p> <p><sup>1</sup>Dept of Pharmaceutical Sciences, College of Pharmacy, University of Illinois at Chicago, Chicago, IL 60607.</p>
17	<p><b>Plant-pathogen interactions: Differential accumulation of defense metabolites in response to <i>Aphanomyces eutieches</i> in pea</b></p> <p><u>HALANE<sup>1,2</sup>, Hodan H.</u>, ISLAM<sup>1</sup>, Nishat S., MCDOWELL<sup>1</sup>, Tim W., PANDIT<sup>3</sup>, Sijan, CHATTERTON<sup>3</sup>, Syama, and DHAUBHADEL<sup>1,2</sup>, Sangeeta.</p> <p><sup>1</sup>London Research and Development Center, Agriculture and Agri-Food Canada, London, Ontario, N5V 4T3, Canada. <sup>2</sup>Department of Biology, University of Western Ontario, London, Ontario, N6A 3K7, Canada. <sup>3</sup>Lethbridge Research and Development Centre, Agriculture and Agri-Food Canada, Lethbridge, AB, T1J 4B1, Canada.</p>
18	<p><b>Antioxidant Activity and Total Phenolic Content of Ultrasound- and Microwave-Assisted Extraction of <i>Malva sylvestris</i></b></p> <p><u>LÓPEZ, Lluvia I.<sup>1,2</sup></u>, <u>DE LOERA Denisse A.<sup>3</sup></u>, <u>CHARCAS, Ismael A.<sup>3</sup></u></p> <p><sup>1</sup>Facultad de Ingeniería, <sup>2</sup>Instituto de Investigación de Zonas Desérticas, <sup>3</sup>Facultad de Ciencias Químicas, Universidad Autónoma de San Luis Potosí, San Luis Potosí, México 78210.</p>
19	<p><b>Soybean-<i>P. sojae</i> interaction: time is the winning tactic</b></p> <p><u>KHATRI, Praveen<sup>1,2</sup></u> and <u>WALLY, Owen<sup>3</sup></u>, <u>DHAUBHADEL, Sangeeta<sup>1,2</sup></u></p> <p><sup>1</sup>London Research and Development Centre, Agriculture and Agri-Food Canada, 1391 Sandford Street, London, ON, N5V 4T3, Canada. <sup>2</sup>Department of Biology, University of Western Ontario, 1151 Richmond Street, London, ON, N6A 5B7, Canada. <sup>3</sup>Harrow Research and Development Centre, Agriculture and Agri-Food Canada, 2585 County Road 20, Harrow, ON NOR 1G0, Canada.</p>
20	<p><b>Production of Antioxidants Contained in Ethanolic Extracts of <i>Rhoeo discolor</i> in a Hydroponic System with Different Nutrient Media.</b></p> <p><u>LÓPEZ MÁRQUEZ Eugenio S.</u>, RODRIGUEZ-MENDIOLA<sup>1</sup>, Martha A., ARIAS-CASTRO<sup>2</sup>, Carlos., MANCILLA-MARGALLI<sup>3</sup>, Norma A., and ÁVILA-MIRANDA<sup>4</sup>, Martín E.</p>

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<b>21</b>	<p><b>Exploration of the bioactive secondary metabolites in Kenyan medicinal plants used as birth control in Wistar Rats</b></p> <p><sup>a*</sup>Jackson Mutembei, <sup>b</sup>Elizabeth Mumbi, <sup>c</sup>Erastus Mwangi, and <sup>a</sup>Patrick Kareru  <sup>a</sup>Department of Chemistry, Jomo Kenyatta University of Agriculture and Technology, JKUAT, Kenya;  <sup>b</sup>Center for Traditional Medicine and Drug Research, Kenya Medical Research Institute, KEMRI, Kenya;  <sup>c</sup>Department of Physical Sciences, Meru University of Science and Technology, Kenya.</p>
<b>22</b>	<p><b>Use of chemotaxonomic and molecular tools for the identification of chemotypes of <i>Calophyllum Brasiliense</i></b></p> <p><u>Stephanie Avalos-Vargas</u>,<sup>1</sup> Carolina A. Cordero-Riande,<sup>1</sup> Miriam del S. Monforte-González,<sup>2</sup> Ileana Echevarría-Machado,<sup>2</sup> Blondy B. Canto-Canché,<sup>1</sup> Luis M. Peña-Rodríguez*<sup>1</sup>  <sup>1</sup>Unidad de Biotecnología y <sup>2</sup>Unidad de Biología Integrativa, Centro de Investigación Científica de Yucatán. Mérida, Yucatán, México.</p>

## Instructions for poster presentations

- The posters with **odd** numbers will be presented on Tuesday, 16<sup>th</sup>.
- The poster **even** numbers will be presented on Wednesday, 17<sup>th</sup>.
- All posters must be posted on Monday afternoon or Tuesday starting at 8 am.
- The exhibition and evaluation will be at the assigned time according to the program.