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## Employment

### Departamento de Ciencias Químico-Biológicas

Universidad de Sonora  
Mexico  
1 Jan 1942 → present

### Química supramolecular

Universidad de Sonora  
Mexico  
1 Jan 1942 → present

## Research outputs

### Nutraceutical and dietary measures with potential for preventing/controlling non-alcoholic fatty liver disease and its complications

Lewis Lujan, L. M., McCarty, M. F., Galvez Ruiz, J. C., Trujillo Lopez, S. & Iloki-Assanga, S. B., Sep 2024, In: Human Nutrition and Metabolism. 37, 200281.

### The Structure–Antiproliferative Activity Relationship of Pyridine Derivatives

Villa-Reyna, A. L., Perez-Velazquez, M., González-Félix, M. L., Gálvez-Ruiz, J. C., Gonzalez-Mosquera, D. M., Valencia, D., Ballesteros-Monreal, M. G., Aguilar-Martínez, M. & Leyva-Peralta, M. A., Jul 2024, In: International Journal of Molecular Sciences. 25, 14, 7640.

### Thiourea-Based Receptors for Anion Recognition and Signaling

Gomez-Vega, J., Vasquez-Cornejo, A., Juárez-Sánchez, O., Corona-Martínez, D. O., Ochoa-Terán, A., López-Gastelum, K. A., Sotelo-Mundo, R. R., Santacruz-Ortega, H., Gálvez-Ruiz, J. C., Pérez-González, R. & Ochoa Lara, K. L., 30 Jan 2024, In: ACS Omega. 9, 4, p. 4412-4422 11 p.

### Efficient and Sustainable Bidentate Amines-Functionalized Resins for Removing $\text{Ag}^+$ , $\text{Cu}^{2+}$ , $\text{Pb}^{2+}$ , and $\text{Fe}^{3+}$ from Water

Villa-Reyna, A. L., Aguilar-Martínez, M., Ochoa-Terán, A., Santacruz-Ortega, H., Leyva-Peralta, M. A., Vargas-Durazo, J. T., Salazar-Gastelum, M. I., García-Elías, J. & Gálvez-Ruiz, J. C., Jul 2023, In: Polymers. 15, 13, 2778.

### Synthesis and Cytotoxicity Studies of Br-Substituted Salphen Organic Compounds

Zelada-Guillén, G. A., Ríos-Arce, J. A., Leyva-Peralta, M. A., Flores-Álamo, M., Gálvez-Ruiz, J. C., Calderón, K. & Escárcega-Bobadilla, M. V., May 2023, In: Chemistry and Biodiversity. 20, 5, e202200972.

### Properties of Cephalopod Skin Ommochromes to Inhibit Free Radicals, and the Maillard Reaction and Retino-Protective Mechanisms in Cellular Models Concerning Oxidative Stress, Angiogenesis, and Inflammation

Lewis, L. L. M., Dörschmann, P., Seeba, C., Thalenhorst, T., Roider, J., Iloki Assanga, S. B., Gálvez Ruiz, J. C., Del Castillo Castro, T., Rosas-Burgos, E. C., Plascencia-Jatomea, M., Ezquerra Brauer, J. M. & Klettner, A., Aug 2022, In: Antioxidants. 11, 8, 1574.

### Tritopic Bis-Urea Receptors for Anion and Ion-Pair Recognition

Gomez-Vega, J., Soto-Cruz, J. M., Juárez-Sánchez, O., Santacruz-Ortega, H., Gálvez-Ruiz, J. C., Corona-Martínez, D. O., Pérez-González, R. & Ochoa Lara, K., 5 Jul 2022, In: ACS Omega. 7, 26, p. 22244-22255 12 p.

#### **Tritopic Bis-Urea Receptors for Anion and Ion-Pair Recognition**

Gomez-Vega, J., Soto-Cruz, J. M., Juárez-Sánchez, O., Santacruz-Ortega, H., Gálvez-Ruiz, J. C., Corona-Martínez, D. O., Pérez-González, R. & Lara, K. O., 22 Jun 2022, In: ACS Omega.

#### **Nutraceuticals/Drugs Promoting Mitophagy and Mitochondrial Biogenesis May Combat the Mitochondrial Dysfunction Driving Progression of Dry Age-Related Macular Degeneration**

Luján, L. M. L., McCarty, M. F., DiNicolantonio, J., Galvez-Ruiz, J. C., Rosas-Burgos, E. C., Plascencia-Jatomea, M. & Assanga, D. I., 9 May 2022, In: Nutrients.

#### **DNA-Binding Properties of Bis-N-substituted Tetrandrine Derivatives**

González-Martínez, S. M., Valencia-Ochoa, D. P., Gálvez-Ruiz, J. C., Leyva-Peralta, M. A., Juárez-Sánchez, O., Islas-Osuna, M. A., Calvillo-Páez, V. I., Höpfl, H., Íñiguez-Palomares, R., Rocha-Alonzo, F. & Lara, K. O., 3 May 2022, In: ACS Omega. 7, 19, p. 16380-16390 11 p.

#### **Nutraceuticals/Drugs Promoting Mitophagy and Mitochondrial Biogenesis May Combat the Mitochondrial Dysfunction Driving Progression of Dry Age-Related Macular Degeneration**

Luján, L. M. L., McCarty, M. F., Di Nicolantonio, J. J., Gálvez Ruiz, J. C., Rosas-Burgos, E. C., Plascencia-Jatomea, M. & Assanga, S. B. I., 1 May 2022, In: Nutrients. 14, 9, 1985.

#### **Biotechnological Strategies in the Intervention and Treatment of COVID-19**

Silva-Beltrán, N. P., Balderrama-Carmona, A. P., Gálvez-Ruiz, J. C., Umsza-Guez, M. A. & Bustos, E. R., 1 Jan 2022, *Frontiers of COVID-19: Scientific and Clinical Aspects of the Novel Coronavirus 2019*. Springer International Publishing, p. 421-442 22 p.

#### **In vitro antiviral effect of Mexican and Brazilian propolis and phenolic compounds against human coronavirus 229E**

Silva-Beltrán, N. P., Galvéz-Ruiz, J. C., Ikner, L. A., Umsza-Guez, M. A., de Paula Castro, T. L. & Gerba, C. P., 2022, In: International Journal of Environmental Health Research. 33, 12, p. 1591-1603 13 p.

#### **Comparison of the biological potential and chemical composition of brazilian and mexican propolis**

Silva-Beltrán, N. P., Umsza-Guez, M. A., Rodrigues, D. M. R., Gálvez-Ruiz, J. C., Castro, T. L. D. P. & Balderrama-Carmona, A. P., 1 Dec 2021, In: Applied Sciences (Switzerland). 11, 23, 11417.

#### **The Dichloromethane Fraction of Croton sonorae, A Plant Used in Sonoran Traditional Medicine, Affect Entamoeba histolytica Erythrophagocytosis and Gene Expression**

Villegas-Gómez, I., Silva-Olivares, A., Robles-Zepeda, R. E., Gálvez-Ruiz, J. C., Shibayama, M. & Valenzuela, O., 23 Jul 2021, In: Frontiers in Cellular and Infection Microbiology. 11, 693449.

#### **Neutral reducing agents supported on merrifield resin obtained by solid phase organic synthesis**

Aguilar-Martínez, M., Vargas-Durazo, J. T., Ochoa-Terán, A., Santacruz-Ortega, H., Ochoa-Lara, K., Zizumbo-López, A. & Gálvez-Ruiz, J. C., 2 Jul 2021, In: Tetrahedron. 91, 132195.

#### **Recent biotechnological advances as potential intervention strategies against COVID-19**

Lobo-Galo, N., Gálvez-Ruiz, J. C., Balderrama-Carmona, A. P., Silva-Beltrán, N. P. & Ruiz-Bustos, E., Feb 2021, In: 3 Biotech. 11, 2, 41.

#### **Antiviral, antioxidant, and antihemolytic effect of annona muricata L. Leaves extracts**

Balderrama-Carmona, A. P., Silva-Beltrán, N. P., Gálvez-Ruiz, J. C., Ruiz-Cruz, S., Chaidez-Quiroz, C. & Morán-Palacio, E. F., Dec 2020, In: Plants. 9, 12, p. 1-11 11 p., 1650.

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Morales-Chávez, S. D., Robles-Zepeda, R. E., Garibay-Escobar, A., Velázquez-Contreras, C., Ruiz-Bustos, E., Rivas-Galindo, V., Jiménez-Estrada, M. & Gálvez-Ruiz, J. C., 3 Sep 2020, In: TIP Revista Especializada en Ciencias Químico-Biológicas. 23, p. 1-8 8 p., 1.

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Assanga, S. B. I., Luján, L. M. L., Gálvez Ruiz, J. C., McCarty, M. F., Cota-Arce, J. M., Espinoza, C. L. L., Salido, A. A. G. & Ángulo, D. F., Jan 2020, In: Results in Chemistry. 2, 100079.

**Stereoselective Reducing Complexes Supported in Solid Phase: Preparation and Reactivity Study**

Vargas-Durazo, J., Aguilar-Martínez, M., Ochoa-Terán, A., Santacruz-Ortega, H., Alonzo, F. R., Meza, N. G. & Galvez-Ruiz, J. C., 14 Aug 2019, In: ChemistrySelect. 4, 30, p. 8776-8780 5 p.

**Berberine as source of antiproliferative hybrid compounds: In vitro antiproliferative activity and quantitative structure-activity relationship**

Leyva-Peralta, M. A., Robles-Zepeda, R. E., Razo-Hernández, R. S., Berber, L. P. Á., Lara, K. O., Ruiz-Bustos, E. & Gálvez-Ruiz, J. C., 2019, In: Anti-Cancer Agents in Medicinal Chemistry. 19, 15, p. 1820-1834 15 p.

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Calvillo-Páez, V., Sotelo-Mundo, R. R., Leyva-Peralta, M., Gálvez-Ruiz, J. C., Corona-Martínez, D., Moreno-Corral, R., Escobar-Picos, R., Höpfl, H., Juárez-Sánchez, O. & Lara, K. O., 25 Apr 2018, In: Chemico-Biological Interactions. 286, p. 34-44 11 p.

**Reynosin and santamarine: two sesquiterpene lactones from Ambrosia confertiflora with bactericidal activity against clinical strains of Mycobacterium tuberculosis**

Coronado-Aceves, E. W., Velázquez, C., Robles-Zepeda, R. E., Jiménez-Estrada, M., Hernández-Martínez, J., Gálvez-Ruiz, J. C. & Garibay-Escobar, A., 1 Nov 2016, In: Pharmaceutical Biology. 54, 11, p. 2623-2628 6 p.

**Electroconductive nanocomposite hydrogel for pulsatile drug release**

Pérez-Martínez, C. J., Morales Chávez, S. D., Del Castillo-Castro, T., Lara Cenicerros, T. E., Castillo-Ortega, M. M., Rodríguez-Félix, D. E. & Gálvez Ruiz, J. C., 1 Mar 2016, In: Reactive and Functional Polymers. 100, p. 12-17 6 p.

**New N-[2-chloropropyl]-heterocyclohexanes. NMR long range shielding effects of chlorine substituent. Use of BH<sub>3</sub> as freezing conformational agent**

Xotlanihua-Flores, A., Montes-Tolentino, P., Sánchez-Ruiz, S. A., Suárez-Moreno, G. V., Gálvez-Ruiz, J. C., Contreras, R. & Flores-Parra, A., 15 Feb 2016, In: Journal of Molecular Structure. p. 322-330 9 p.

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Moreno-Corral, R., Höpfl, H., Yatsimirsky, A. K., Gálvez-Ruiz, J. C. & Lara, K. O., 25 Feb 2015, In: Tetrahedron. 71, 8, p. 1232-1240 9 p.

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Alvarez Berber Laura Patricia & Leyva Perlata Mario Alberto, 5 Feb 2015, In: BMC Complementary and Alternative Medicine. 15, 13, p. 1-7 7 p., 15:13.

**Structural analyses of 2-triorganylsilyl- and 2-triorganylstannyl derivatives of 5-alkyl-[1, 3, 5]-dithiazinanes. Do S...Si and S...Sn interactions exist?**

Colorado-Peralta, R., Guadarrama-Pérez, C., Martínez-Chavando, L. A., Gálvez-Ruiz, J. C., Duarte-Hernández, A. M., Suárez-Moreno, G. V., Vásquez-Badillo, A., Sánchez-Ruiz, S. A., Contreras, R. & Flores-Parra, A., 1 Feb 2014, In:

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**Merrifield and wang resins functionalized with bidentate amines: Useful materials to support reducing complexes and as alkali metal sensors**

Aguilar-Martínez, M., Vargas-Durazo, J., Ochoa-Lara, K. L., Santacruz-Ortega, H. & Gálvez-Ruiz, J. C., Jun 2013, In: Zeitschrift für Anorganische und Allgemeine Chemie. 639, 7, p. 1166-1172 7 p.

**Seasonal effect on chemical composition and biological activities of Sonoran propolis**

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**Antimicrobial activity of northwestern mexican plants against helicobacter pylori**

Robles-Zepeda, R. E., Velázquez-Contreras, C. A., Garibay-Escobar, A., Gálvez-Ruiz, J. C. & Ruiz-Bustos, E., 1 Dec 2011, In: Journal of Medicinal Food. 14, 10, p. 1280-1283 4 p.

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Corella-Madueño, M. A., Harris, M. K., Fu-Castillo, A. A., Martínez-Téllez, M. A., Valenzuela-Soto, E. M., Gálvez-Ruiz, J. C. & Vargas-Arispuro, I., Dec 2011, In: Pest Management Science. 67, 12, p. 1522-1527 6 p.

**Tripodal molecules derived from ethanoldithiazinanes centered on boron and phosphorus atoms. Structural analyses by NMR and HF/6-31G(d) calculations**

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**Structural analysis of alkali metal tetrahydroborates: The role of metal and coordination form in the  $[\text{BH}_4]^-$  anion structure**

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Experimental and theoretical studies of homoleptic tellurium cyanides  $\text{Te}(\text{CN})_x$ : Crystal structure of  $\text{Te}(\text{CN})_2$   
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