

## 2015

—Antileishmanial activity of quinazoline derivatives: Synthesis, docking screens, molecular dynamic simulations and electrochemical studies. Cesar Mendoza-Martínez, Norma Galindo-Sevilla, José Correa-Basurto, Victor Manuel Ugalde-Saldivar, Rosa Georgina Rodríguez-Delgado, Jessica Hernández-Pineda, Cecilia Padierna-Mota, Marcos Flores-Alamo, Francisco Hernández-Luis.

*European Journal of Medicinal Chemistry (ISSN: 0223-5234) 92, 314-331 (2015).*

## 2014

—JVG9, a benzimidazole derivative, alters the surface and cytoskeleton of *Trypanosoma cruzi* bloodstream trypomastigotes. Dylan L Díaz-Chiguer, Francisco Hernández-Luis, Benjamín Nogueda-Torres, Rafael Castillo, Olivia Reynoso-Ducoing, Alicia Hernández-Campos, Javier R Ambrosio.

*Mem Inst Oswaldo Cruz, 109(6), 757-760 (2014).*

— In vitro antiparasitic activity of new thiosemicarbazones in strains of *Trypanosoma cruzi*. Adriana Moreno-Rodríguez, Paz María Salazar-Schettino, Juan Luis Bautista, Francisco Hernández-Luis, Hugo Torrens, Yolanda Guevara-Gómez , Socorro Pina-Canseco, Martha Bucio Torres, Margarita Cabrera-Bravo, Cesar Mendoza Martinez, Eduardo Pérez-Campos. *European Journal of Medicinal Chemistry (ISSN: 0223-5234) 87, 23-29 (2014).*

## 2013

— Synthesis, hypoglycemic activity and molecular modeling studies of pyrazole-3-carbohydrazides designed by a CoMFA model. Eduardo Hernández-Vázquez, Rodrigo Aguayo-Ortiz, Juan José Ramírez-Espinosa, Samuel Estrada-Soto, Francisco Hernández-Luis (corresponding). *European Journal of Medicinal Chemistry (ISSN: 0223-5234) 69, 10-21 (2013).*

— Towards the identification of the binding site of benzimidazoles to β-tubulin of *Trichinella spiralis*: Insights from computational and experimental data. Rodrigo Aguayo-Ortiz, Oscar Méndez-Lucio, José L. Medina-Franco, Rafael Castillo, Lilián Yépez-Mulia, Francisco Hernández-Luis, Alicia Hernández-Campos.

*Journal of Molecular Graphics and Modelling (ISSN:1093-3263 ),41, 12-19 (2013).*

- Synthesis and antiprotozoal activity of novel 2-[(2-(1H-imidazol-1-yl)ethyl)sulfanyl]-1H-benzimidazole derivatives. Jaime Pérez-Villanueva<sup>a</sup>, Alicia Hernández-Campos, Lilián Yépez-Mulia, Carlos Méndez-Cuesta, Oscar Méndez-Lucio, Francisco Hernández-Luis, Rafael Castillo.

*Bioorganic Medicinal Chemistry Letters* (ISSN: 0960-894X), DOI  
[org/10.1016/j.bmcl.2013.05.012 \(2013\)](https://doi.org/10.1016/j.bmcl.2013.05.012).

- Analysis of the effect of a 2-(trifluoromethyl)-1H-benzimidazole derivative on *Trichinella spiralis* muscle larvae. Matadamas-Martínez F, Nogueda-Torres B, Hernández-Campos A, Hernández-Luis F, Castillo R, Mendoza G, Ambrosio JR, Andrés-Antonio G, Yépez-Mulia L. *Veterinary Parasitology* (ISSN: 0304-4017), 194(2-4), 193-197 (2013).

- RCB20, an experimental benzimidazole derivative, affects tubulin expression and induces gross anatomical changes in *Taenia crassiceps* cysticerci. Adrián Márquez-Navarro, América Pérez-Reyes, Armando Zepeda-Rodríguez, Olivia Reynoso-Ducoing, Alicia Hernández-Campos, Francisco Hernández-Luis, Rafael Castillo, Lilian Yépez-Mulia, Javier R. Ambrosio.

*Parasitology Research* (ISSN: 1432-1955), 112, 2215-2226 (2013).

- Activity landscape analysis, CoMFA and CoMSIA studies of pyrazole CB1 antagonists. Eduardo Hernández-Vázquez, Oscar Méndez-Lucio, Francisco Hernández-Luis (corresponding). *Medicinal Chemistry Research* (ISSN: 1554-8120) 22:4133–4145 (2013).

## 2012

- Exploring the interplay of physicochemical properties, membrane permeability and giardicidal activity of some benzimidazole derivatives. Carlos Hernández-Covarrubias, Miguel A. Vilchis-Reyes, Lilian Yépez-Mulia, Remedios Sánchez-Díaz, Gabriel Navarrete-Vázquez, Alicia Hernández-Campos, Rafael Castillo, Francisco Hernández-Luis (corresponding).

*European Journal of Medicinal Chemistry* 52, 193-204 (2012).

- In vitro and in vivo trypanocidal activity of some benzimidazole derivatives against two strains of *Trypanosoma cruzi*. Dylan L. Díaz-Chiguer, Adrián Márquez-Navarro, Benjamín Nogueda-Torres, Gloria de la Luz León-Ávila, Jaime Pérez-Villanueva, Alicia Hernández-Campos, Rafael Castillo, Javier R. Ambrosio, Rocío Nieto-Meneses, Lilián Yépez-Mulia, Francisco Hernández-Luis (corresponding).

*Acta Tropica* 122, 108–112 (2012)

- Effects of an antimalarial quinazoline derivative on human erythrocytes and on cell membrane molecular models. Yareli Rojas-Aguirre, Francisco Hernández-Luis, César Mendoza-Martínez, Carlos Patricio Sotomayor, Luis Felipe Aguilar, Fernando Villena, Ivan Castillo, David J. Hernández, Mario Suwalsky.  
*Biochimica et Biophysica Acta (Biomembranes)* 1818, 738-746 (2012).

— Diversity in the supramolecular interactions of 5,6-dichloro-2-(trifluoromethyl-1*H*-benzimidazole with modified cyclodextrins: implications for physicochemical properties and antiparasitic activity.

Yareli Rojas-Aguirre, Ivan Castillo, David J. Hernández, Benjamín Nogueda-Torres, Adrián Márquez-Navarro, Juan C. Villalobos, Francisco Sánchez-Bartéz, Luvia Sánchez-Torres, Isabel Gracia-Mora, Rafael Castillo, Francisco Hernández-Luis.

*Carbohydrate Polymers* 87, 471-479 (2012).

## 2011

— Antiprotozoal activity of proton-pump inhibitors. Jaime Pérez-Villanueva, Antonio Romo-Mancillas, Alicia Hernández-Campos, Lilián Yépez-Mulia, Francisco Hernández-Luis, Rafael Castillo.

*Bioorganic and Medicinal Chemistry Letter* 21 (24), 7351-7354 (2011).

— The design and inhibitory profile of new benzimidazole derivatives against triosephosphate isomerase from *Trypanosoma cruzi*: A problem of residue motility. Antonio Romo-Mancillas, Alfredo Téllez-Valencia, Lilián Yépez-Mulia, Francisco Hernández-Luis, Alicia Hernández-Campos, Rafael Castillo.

*Journal of Molecular Graphics and Modelling* 30, 90-99 (2011).

— Comparative molecular field analysis (CoMFA) and comparative molecular similarity indices analysis (CoMSIA) of some benzimidazole derivatives with trichomonocidal activity. Jaime Pérez-Villanueva, José L. Medina-Franco, Thomas R. Caulfield, Alicia Hernández-Campos, Francisco Hernández-Luis, Lilián Yépez-Mulia, Rafael Castillo.

*European Journal of Medicinal Chemistry* 46, 3499–3508 (2011)

— Studies on 6-chloro-5-(1-naphthoxy)-2-(trifluoromethyl)-1*H*-benzimidazole/2-hydroxypropyl-beta-cyclodextrin association: characterization, molecular modeling studies and *in vivo* anthelmintic activity. Yareli Rojas-Aguirre, Lilián Yépez-Mulia, Ivan Castillo, Fabian López-Vallejo, Olivia Soria-Arteche, Alicia Hernández-Campos, Rafael Castillo, Francisco Hernández-Luis.

*Bioorganic Medicinal Chemistry* 19, 789–797 (2011).

## 2010

- Antinociceptive effect of extracts and compounds from *Hofmeisteria schaffneri*.  
Guadalupe Angeles-López, Araceli Pérez-Vásquez, Francisco Hernández-Luis, Myrna Déciga-Campos, Robert Bye, Edelmira Linares, Rachel Mata.  
*Journal of Ethnopharmacology* 131, 425-432, (2010)
- Synthesis and biological activity of 2-(trifluoromethyl)-1*H*-benzimidazole derivatives against some protozoa and *Trichinella spiralis*.  
Francisco Hernández-Luis, Alicia Hernández-Campos, Rafael Castillo, Gabriel Navarrete-Vázquez, Olivia Soria-Arteche, Manuel Hernández-Hernández, Lilián Yépez-Mulia.  
*European Journal of Medicinal Chemistry* 45, 3135-3141 (2010)
- An adenosine derivative compound, IFC305, reverses fibrosis and alters gene expression in a pre-established CCl<sub>4</sub>-induced rat cirrhosis.  
Julio Israel Pérez-Carreón, Lidia Martínez-Pérez, María Lilia Loredo, Lucia Yañez-Maldonado, Gabriela Velasco-Loyden, Susana Vidrio-Gómez, Jorge Ramírez-Salcedo, Francisco Hernández-Luis, Israel Velázquez-Martínez, Juan Antonio Suárez-Cuenca, Rolando Hernández-Muñoz, Victoria Chagoya de Sánchez.  
*The International Journal of Biochemistry and Cell Biology* 42, 287–296 (2010)
- 2009**
- Anthelmintic activity of benzimidazole derivatives against *Toxocara canis* second-stage larvae and *Hymenolepis nana* adults  
Adrián Márquez-Navarro, Benjamín Nogueda-Torres, Alicia Hernández-Campos, Olivia Soria-Arteche, Rafael Castillo, Sergio Rodríguez-Morales, Lilián Yépez-Mulia, Francisco Hernández-Luis.  
*Acta Tropica* 109, 232–235, (2009)
- Synthesis and antiprotozoal activity of novel 1-methylbenzimidazole derivatives.  
David Valdez-Padilla, Sergio Rodríguez-Morales, Alicia Hernández-Campos, Francisco Hernández-Luis, Lilián Yépez-Mulia, Amparo Tapia-Contreras, Rafael Castillo  
*Bioorganic and Medicinal Chemistry* 17, 1724-1730, (2009)
- Synthesis and *in vitro* cysticidal activity of new benzimidazole derivatives.  
Francisca Palomares-Alonso, Helgi Jung-Cook, Jaime Pérez-Villanueva, Juan Carlos Piliado, Sergio Rodríguez-Morales, Guadalupe Palencia-Hernández, Nayeli López-Balbiaux, Alicia Hernández-Campos, Rafael Castillo, Francisco Hernández-Luis.  
*European Journal of Medicinal Chemistry* 44, 1794-1800 (2009)