

# ALEJANDRO A. CAMACHO-DÁVILA

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September 19, 2016

## POSITIONS

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Full Professor, 2001-Present  
Facultad de Ciencias Químicas  
Universidad Autónoma de Chihuahua  
Chihuahua, México

Associate Professor, 1991-2000  
Facultad de Ciencias Químicas  
Universidad Autónoma de Chihuahua  
Chihuahua, México

## EDUCATION

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**PhD** New Mexico State University, Chemistry February 2006  
Dissertation: "Studies on Generation of Isobenzofurans through the Coupling of Fischer Carbene Complexes with o-Alkynylbenzoyl Derivatives and Their Use in the Synthesis of Natural Products"  
Committee: James W. Herndon (chair), Amudhu S. Gopalan, Wolfgang Mueller

**MS** Instituto Tecnológico y de Estudios Superiores de Monterrey, Chemistry Oct 1999  
Thesis: "Synthesis of A-ring of Taxol"  
Advisor: Bernard Micheli Masson

**BS** Universidad Autónoma de Chihuahua, Chemical Engineering May 1986

## HONORS AND AWARDS

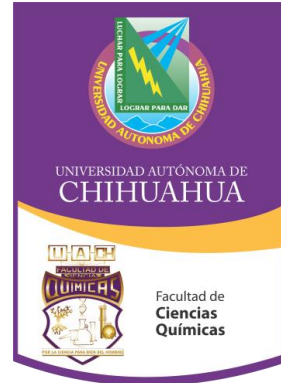
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**Member of National Researchers System (CONACYT) (Level I) since 2010** 2010-to present

**Desirable Profile PRODEP** 2002-to present  
A certificate of distinguished academic and research performance was obtained from PRODEP (Programa para el Desempeño de Profesores)

Facultad de Ciencias Químicas, circuito Universitario,  
Campus Universitario # 2 , Chihuahua, Chih., C.P. 31125  
Tels. (614) 236-60-00





## TEACHING EXPERIENCE

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**Universidad Autónoma de Chihuahua**, Chihuahua, México  
**Full Professor**, Facultad de Ciencias Químicas

Aug 2006-to present

- Organic Chemistry I (BSc)
- Organic Synthesis (BSc)
- Industrial Syntheses (BSc)
- Spectroscopy (BSc)
- Carbonyl Chemistry (BSc)
- Instrumental Methods for Structure Elucidation (PhD)
- Seminar II (PhD)

### Masters Students Advised

Dante G. Saénz-Urbe, “Syntheses, characterization and evaluation of intercrossing activity of novel Schiff bases derived from ferrocene and aromatic aldehydes”, 2013

, “Syntheses of analogies of phenolic compounds with antioxidant activity”, 2010

### Bachelor Students Advised

Jose Carlos Espinoza Hicks, “Structure-Activity relationship of substituted fluoroquinolones substituted with cinnamic acids and their antimicrobial evaluation, 2009

Ricardo Márquez Gómez, “Synthesis of XH-14 benzofuran mediated by iodine halo-cyclization”, 2011

Myriam Rebeca Márquez Chávez, “Synthesis of ciprofloxacin analogues with cinnamic acids and their antimicrobial evaluation”, 2011

Marisela Martínez Solís, “Synthesis of conjugated ciprofloxacin conjugated analogues containing cinnamic acids and their antimicrobial evaluation”, 2012

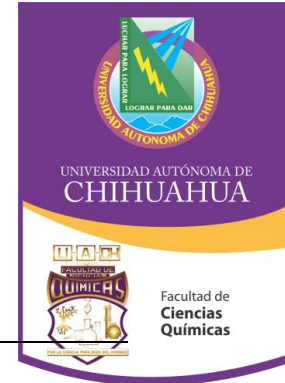
Gabriela López Frías, “Synthesis of tournefoliac acid A”, 2013

José Julián Calderón Rivera, “Synthesis of the stilbene resveratrol mediated by Suzuki coupling reaction”, 2014.

Raúl A. Ramírez García, “Synthesis of Licochalcone-A through the Heck coupling reaction”, 2015

## SELECTED PUBLICATIONS

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### *Book Chapter*

Andrade-Ochoa, A. A. Camacho-Dávila, L. M. Rodríguez-Valdez, M. Villanueva-García and G. V. Nevárez-Moorillón. Theoretical Properties of Terpenes and their Relationship with Biological Activities. S. Hu, J.(Ed), New Developments in Terpene Research, New York:Nova Publishers, 2014.

Lourdes Ballinas-Casarrubias, Alejandro Camacho-Davila, Nestor Gutierrez-Méndez, Víctor Hugo Ramos-Sánchez, David Chávez-Flores, Laura Manjarrez-Nevárez, Gerardo Zaragoza-Galán and Guillermo González-Sanchez. Biopolymers from Waste Biomass-Extraction, Modification and Ulterior Uses. Recent Advances in Biopolymers Farzana K. Parveen (Ed) Croatia, InTech 2016

### *Journal Publications*

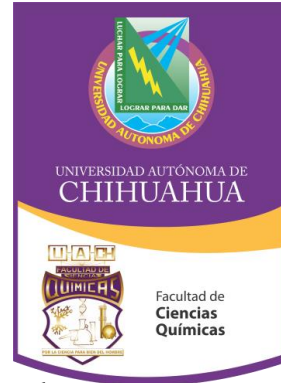
Alejandro A. Camacho-Dávila, David Chávez-Flores, Gerardo Zaragoza-Galán, and Víctor H. Ramos-Sánchez, “Sustainable Synthesis of the Naturally Hypolipidemic Agent  $\alpha$ -Asarone,” Synthetic Communications, vol. 45, 2015, pp. 1669-1674.

Gabriela López-Frías, Alejandro A. Camacho-Dávila, David Chávez-Flores, Gerardo Zaragoza-Galán and Víctor H. Ramos-Sánchez, “Synthesis of a Functionalized Benzofuran as a Synthone for Salvianolic Acid C Analogues as Potential LDL Antioxidants”, Molecules, 20, 8654-665.

Carlos A. Enríquez-Núñez, Alejandro A. Camacho-Dávila, Víctor H. Ramos-Sánchez, Gerardo Zaragoza-Galán, Lourdes Ballinas-Casarrubias and David Chávez-Flores. “Chemoenzymatic Kinetic resolution of (R)-malathion in aqueous media” Chemistry Central Journal 9, 1-9.

### *Journal Papers Accepted*

Ana I. Casas Hidalgo, Manuel Román Aguirre, Edgar Valenzuela, José Y. Verde Gomez, Alejandro Camacho Dávila, Rajender S. Varma, Víctor H. Ramos Sánchez, “Sustainable application of pecan nutshell waste: Greener synthesis of Pd-based nanocatalysts for electro-oxidation of methanol,” To be published in: International Journal of Hydrogen Energy. <http://dx.doi.org/10.1016/j.ijhydene.2016.07.275>



J. C. Espinoza-Hicks, J. M. Nápoles Duarte, G. V. Nevárez-Moorillón, A. Camacho-Dávila, L. M. Rodríguez-Valdez, "Synthesis, electronic, and spectral properties of novel geranylated chalcone derivatives: a theoretical and experimental study," To be published in: Journal of Molecular Modeling. DOI 10.1007/s00894-016-3114-x.

## FUNDED PROJECTS – SCIENCE AND TECHNOLOGY

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Camacho-Davila A, Chavez-Flores, D., Ramos-Sánchez, V., Zaragoza, Galán, G., "Scientific Equipment for the Academic Group of Applied and Educational Chemistry," CONACT, No. 000000000226114.

Camacho-Davila A, Chavez-Flores, D., Ramos-Sánchez, V., Zaragoza, Galán, G., "Syntheses and application of phase transfer catalysts based on tartaric acids and their derivatives," CONACYT, No. 000000000255121.

## PRESENTATIONS AND INVITED LECTURES

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**8<sup>th</sup> Pharmacy Students Meeting** , "Green Chemistry in pharmaceutical sustainable industry", Facultad de Farmacia, Universidad Autónoma de Morelos , Dec 2011.

**11<sup>th</sup> Meeting of the Mexican Academy of Organic Chemistry**, "Synthesis of pharmaceuticals through metal catalyzed reactions". Facultad de Ciencias Químicas, Universidad Autónoma de Chihuahua, Mar 2015.

## PROFESSIONAL SERVICE

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### Symposium Co-Organizer

11th Meeting of the Mexican Academy of Organic Chemistry

### Peer-Reviewed Articles for:

- Synthetic Communications
- Letters in Organic Chemistry

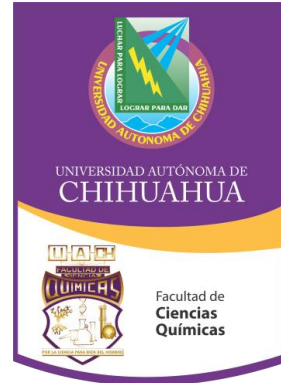
## LANGUAGES

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**Spanish:** Native Language

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**English:** Exam Toefl 550 points and Trinity College Certificate Grade 11 GESE

### **AVAILABLE THESIS PROJECTS**

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#### **For bachelor students**

Syntheses and application of phase transfer catalysts based on tartaric acids and their derivatives. Project funded by CONACYT, experience in basic laboratory techniques is required, good level of organic chemistry required.

#### **For Ph. D. in sciences**

Syntheses and application of phase transfer catalysts based on tartaric acids and their derivatives. Project funded by CONACYT, experience in advanced laboratory techniques is required, expertise level of organic chemistry, separation techniques and deep knowledge of NMR, MS, IR and chromatography techniques are indispensable.