

Gpe. Virginia Nevárez Moorillón, Ph.D.

Full time professor, graduate studies and research
coordinator

26 years of experience

School of Chemical Sciences

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Research lines (Areas):

1. Antimicrobial natural compounds as additives in food production
2. Microbiota associated to Chihuahua cheese production and ripening
3. The use of biosurfactants in the biodegradation of hydrocarbons in contaminated soil,

Academic information:

- **Bachelor Program;** Químico Bacteriologo Parasitologo, Universidad Autónoma de Chihuahua, Chihuahua, México. 1986
- **PhD Program:** Ph.D. in Biology. University of North Texas. Denton, Tx. USA, 1995

Selected Awards or Prizes:

1. **Who's Who Among Students in American Universities & Colleges.** University of North Texas. Denton, Tx USA 1994.
2. **Permanent member. Sigma Pi Honor Society. Nominated by Dr. Roland Vela.** University of North Texas. Denton, Tx USA 1994.
3. **Premio Chihuahua 1999, 2011,** Gobierno del Edo. Chihuahua, Mexico.
4. **Premio Nacional en Ciencia y Tecnología de Alimentos. Categoría Profesional en Ciencia de los Alimentos.** Coca-Cola y CONACYT. Mexico, D.F., 2006.
5. **Academia Mexicana de Ciencias.** Regular member. Ingreso 2012

Publications:

(40 papers in indexed journals; 15 Chapters in Books; 3 Author or Editor of Books; 28 Proceedings; 260 Presentations in Scientific Meetings). Details of the 5 most recent publications.

1. Melendez-Rentería, P., Nevárez-Moorillón, V., Rodríguez-Herrera, R., Aguilar, C.N. (2012). Solid State Fermentation of Mexican Oregano (*Lippia berlandieri* Schauer) waste. American Journal of Agricultural and Biological Sciences 7(1): 76-81. ISSN: 1557-4989.
2. Hernández-Ochoa, L., Macías-Castañeda, C.A., Nevárez-Moorillón, G.V., Salas-Muñoz, E., Sandoval-Salas, F. (2012). Antimicrobial activity of chitosan-based films including spices' essential oils and functional extracts. CyTA Journal of Food. 10(2):85-91. Print ISSN: 1947-6337 Online ISSN: 1947-6345. DOI: 10.1080/19476337.2011.576434
3. Espinoza-Hicks, J.C., Rodríguez-Valdez, L.M., Nevárez-Moorillón, G.V., Camacho-Dávila, A. (2012) Synthesis, experimental and theoretical study of the spectroscopic properties in (2E)-3-{3-methoxy-4-[(3-

- methyl but-2-en-1-yl)oxy]phenyl}-1-(3,4,5-trimethoxyphenyl)prop-2-en-1-one. Journal of Molecular Structure.1020:88-95. ISSN 0022-2860 DOI <http://dx.doi.org/10.1016/j.molstruc.2012.03.037>
4. Portillo-Ruiz, M.C., Avila Sosa Sánchez, R., Viramontes-Ramos, S., Torres-Muñoz, J.V., Nevárez-Moorillón, G.V. Antifungal effect of Mexican oregano (*Lippia berlandieri* Schauer) essential oil on a wheat flour-based medium. Journal of Food Science 77(8): 441-445. ISSN 0022-114. DOI 10.1111/j.1750-3841.2012.02821.x
 5. Brito, E.M.S., Piñon-Castillo, H.A., Guyonead, R., Carreta, C.A., Gutiérrez-Corona, J.F., Duran, R., Reyna-López, G.E., Nevárez-Moorillón, G.V., Fahy, A., Goñi-Urrizayna, M. (2013). Bacterial biodiversity from anthropogenic extreme environments: a hyper-alkaline and hyper-saline industrial residue contaminated by chromium and iron. Applied Microbiology and Biotechnology 97:369-378 ISSN 0175-7598 (Print) 1432-0614 (Online) DOI:10.1007/s00253-012-3923-5

Top three publications (most cited or publication with the highest impact factor):

1. Amézaga-Madrid, P., Nevárez-Moorillón, G.V., Orrantia-Borunda, E., Miki-Yoshida, M. (2002) Photoinduced bactericidal activity against *Pseudomonas aeruginosa* by TiO₂ based thin films. FEMS Microbiology Letters, 211(2) 183-188. ISSN 0378-1097. **65 cites**
2. Amézaga-Madrid, P., Silveira-Morales, R., Córdoba-Fierro, L., Nevárez-Moorillón, G.V., Miki-Yoshida, M., Orrantia-Borunda, E., Solis, F.J. (2003). TEM Evidence of ultra-structural alteration on *Pseudomonas aeruginosa* by photocatalytic TiO₂ thin films. Journal of Photochemistry and Photobiology B: Biology. 70(1): 45-50. ISSN 1011-1344 **64 cites**
3. Avila-Sosa, R., Gastélum-Franco, G., Camacho-Dávila, A., Torres-Muñoz, J.V., Nevárez-Moorillón, G.V. (2010) Extracts of Mexican Orégano (*Lippia berlandieri* Schauer) with antioxidant and antimicrobial activity. Food and Bioprocess Technology. 3:434-440 ISSN 1935-5130. **18 cites**

Research projects.

Total of financed projects: **11**.

Details of last three projects:

1. Convocatoria Ciencia Básica SEP-CONACYT 2007. "Producción y caracterización de biosurfactantes microbianos, y su uso en procesos de restauración biológica de suelos contaminados" No. 80557. Monto: \$130,000.00. 2008-2009
2. Fondo Mixto Gobierno del Edo de Chihuahua-CONACYT CHIH-2008-C01-92166. "Biosurfactantes microbianos como auxiliares en la restauración de suelos contaminados con residuos tóxicos". Monto: \$212,000.00. 2009-2011.
3. Convocatoria Ciencia Básica SEP-CONACYT 2011 No. 168960. "Caracterización funcional de bacterias lácticas provenientes de Queso Chihuahua elaborado de manera tradicional". Monto: \$1,695,000.00. 2012-2014

International Cooperation Projects.

Research Thesis and Postdoctoral stages (directions) :

1. 30 Bachelor's Receptional thesis
2. 44 Master thesis
3. 12 PhD thesis
4. Supervision of 2 Postdoctoral researchers.

Organization of events:

(XX events organized) Details of the 3 most important events:



UNIVERSIDAD
AUTÓNOMA
DE COAHUILA

Invited Professor

PhD Program in Food Science & Technology
Universidad Autónoma de Coahuila
2013



1. International Meeting of Food Safety 2007. President of the Organizing Committee.
2. 4th. Food Science and Food Biotechnology for Developing Countries. Organizing Committee. 2010. AMECA
3. 5th. Food Science and Food Biotechnology for Developing Countries. Organizing Committee. 2012. AMECA

Other relevant scientific information (3):

- Coordinator of Graduate Studies and Research. Facultad de Ciencias Químicas. Universidad Autónoma de Chihuahua, 2010-2016.
- Asociación Mexicana de Ciencias de los Alimentos, Secretary, VicePresident and President 2007-2013.
- Member of the National Researchers System. Level I 2007 – 2014.