



## **C.V.**

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Exclusive and Full Time Professor, Chairman of Department of Microbiology and Immunology, and Head of the Laboratory of Virology and Immunology, School of Biological Sciences Universidad Autonoma de Nuevo Leon.

Member of the National System of Researchers, since 1991, currently has Level II.

With PROMEP profile, since 2002 to date.

She received her PhD degree in Immunology in the Instituto Politecnico Nacional in 1996. She conducted research in Medical School Department of Surgery, San Antonio Health Science Center, University of Texas in 1993.

Also she has an internship at Harvard School of Public Health, Department of Cancer Biology, Safety in Laboratories Level 2 and 3. 1996-1997.

### **She is working in three main lines of research:**

- Trinomial: Immune-Cancer-Virus
- Biotechnological Development of biological response modifiers for diagnosis and therapy
- Formulation and implementation of biologicals

Among her contributions to raise the level of academic institute, include the creation of the Laboratory Biosafety Level 3, first of its kind in Mexico that allows conducting studies with microorganisms, such as human immunodeficiency virus.

The Creation of a Comprehensive Clinical Services, and the Creation of the First Bank of tumors in Mexico, with the cooperation of both public and private hospitals in the region northeast of the country.

**She has taught courses:** Immunology, Clinical Immunology and Immunochemistry at bachelor degree and postgraduate level: Molecular Immunology, Advanced Immunology, Microbiology General Methods Experimental Immunology and Molecular Biology.

**At present she is:**

- Head of the Department of Microbiology and Immunology, Faculty of Science Biological of U.A.N.L. from 2007 to date.
- Head of the Laboratory of Immunology and Virology, FCB / UANL, from 1995 to date.
- Coordinator of the Master Science specializing in Immunobiology of the Graduate School of Biological Sciences / UANL, from 1984 to date.
- Member of the Committee on Admissions specializing in the Masters Microbiology and Immunology, Faculty of Life Sciences / UANL., from 1993 to Date.
- Member of the Advisory Council on Biosafety, the Commission Intersecretarial Biosecurity and genetically modified organisms, of CONACYT, from 2000-2008.
- Member of the Portfolio of arbitrators (CERs) CONACYT to date.
- Member of the Council on Science and Technology of Nuevo Leon, COCyTE since 2004 to date.
- Active member of 12 scientific societies including the National System Investigators, the Mexican Academy of Sciences, and member of the Honor Cuban Society of Immunology.
- Member of the Editorial Committee of Elsevier.
- Member of the Editorial Committee of the Journal Science / UANL.
- Council member UNAC (Art United Against Childhood Cancer), since 2010.

**She has received 29 awards for Research from various scientific associations, including:**

- . **Medal Carlos Canseco** in the area of medical research. Municipality of Monterrey. October 21, 2010.
- . **UANL AWARD** "flama, vida y mujer" Universidad Autónoma de Nuevo León. March 9, 2010
- . **Luis Elizondo AWARD**, in the science and technology category, from Instituto Tecnológico y de Estudios Superiores Monterrey. October 27, 2009.
- . **Award: 3rd. Place Prize Dr. Miguel Jimenez** in the form of cartel, with research work: Analysis of populations and subpopulations of dendritic cells in patients with pulmonary tuberculosis. Awarded by the National Neumology Institute, 2007.
- **Award for outstanding participation in the 2nd. Regional Program Marketing Technology Government of Nuevo Leon**, through the Program for Integration of Regional Development of Northeast and its relationship with Texas (invitation) and the draft International Knowledge (CICF). January 8, 2007.
- **Technos Award 2006**, in the category of technology publication, awarded by Government of Nuevo Leon. 2007.
- **Co-Director of the best Bachelor and Master's thesis** in the area of Natural Sciences and Exact, September, 2006.
- **The Medal Francisco de Vitoria and Barbadillo**, by the Municipal Government of Cd. Guadalupe, N.L., 2006.
- The prize "**Research 2004 of the UANL**" in the area of agricultural sciences.
- Receive recognition for professional excellence. by the Federation of Professional Associations of the State of Nuevo Leon, AC.
- **Medal of Civic Merit "Presea State of Nuevo Leon 2003"** issued by the Government of Nuevo Leon in the area of scientific research in 2004.

• **Recognition of the National Institute of Copyright** for her contribution to culture and outstanding scientific and academic career in 2004.

**Scientific Production:**

(5) Books Titles: Colección Internacional de Bacilos entomopatógenos: Avances Recientes en la Biotecnología en *Bacillus thuringiensis* catálogo de Cepas, Biotecnología para la Producción de Bioinsecticidas Microbianos, centrada en *Bacillus thuringiensis*, *Introducción al Cultivo Celular*

(13) Chapters

(50) National Articles

(84) International Articles

(89) Dating to its publications

(116) articles in full in national and international reports

(276) Abstracts of papers presented at Meetings

**Research projects:**

(21) Projects PAICYT UANL support with a total of \$775,000 pesos

(10) Projects CONACYT support with a total \$66,926,663.71 pesos

(01) Anderson Clayton Research Project \$107,225.00 US dlls

**Patents:**

(1) At International "A novel antiproliferativo protein from *Bacillus thuringiensis*" registered more 20 countries in the world.

(6) Nationally Among them "Production of an immunomodulatory dialyzable obtained extracts of leukocytes, containing factors and transfer methods usage. And respective registered trademark.

(4) Nationally In progress

**Human Resources:**

Thesis Advisor and Member of Committee Thesis:

(95) Bachelor's thesis

(50) Master Science's thesis

(24) PhD's thesis

**January, 2011**