



## **Delia Elva Cruz-Vega PhD**

*Professor-Research*

Email: [cruzvegade@gmail.com](mailto:cruzvegade@gmail.com)

Professor Cruz-Vega obtained her degree in Industrial Pharmaceutical Chemistry at the National School of Biological Sciences of IPN, Mexico City in 1979. Then, she obtained her M. Sc. degree, specializing in Natural Products (1995) and PhD, with a specialization in Biotechnology (2002), at the Faculty of Biological Sciences of the Universidad Autónoma de Nuevo León (UANL), Monterrey, Mexico.

In the professional field, she has worked as a specialist in quality control of medicines, biological products and healing material as Head of Quality Control at the Public Health Institute (IMSS) for 5 years, and Head of the Quality Control Lab of medicines also at IMSS Institute. Since 1990, she worked at the IMSS Biomedical Research Center in Monterrey NL, entering as a Research Technician and as Associate Researcher from 2000-2008. There, she developed research of compounds of natural products projects such as phytopharmaceuticals, mainly with Mexican medicinal plants. She collaborated with a researcher on the synthesis of anti-amoebic compounds at the University of Jaimilia, India; she has also collaborated in the IMSS project for the production of phytopharmaceuticals against amoebiasis. She was a participant in the Mexico-Spain project (IMSS-University of Barcelona), funded by the European Union, studying a Mexican tree called *Taxus globosa*, as a source of taxol production.

As of 2010, she joined the Chair of Cell Therapy as assistant professor-researcher at the National School of Medicine of the Tecnológico de Monterrey. Development of the Cell Therapy Project for Diabetes, collaborator in the Cell Therapy for Amyotrophic Lateral Sclerosis project. Also, she contributed on new research lines such as, characterization of early non-invasive biomarkers in liver diseases, and identification of natural products with therapeutic potential. She has led a PhD thesis and a master's degree in the Tecnológico de Monterrey programs. She has also been a full-time professor at the undergraduate and master's level, at the UANL School of Public Health and Nutrition. She has been external collaborator, associate professor, tutor and participant of postgraduate thesis committees at the Faculty of Biological Sciences of the UANL (2002-2010).

In 18 years devoted to Scientific Research, she has participated in more than 130 national and international congresses and published 30 articles in indexed journals, two book chapters and a patent. Thesis director of bachelor's degree (7), master's degree (3) and doctorate (6). She is a member of the CONACYT National System of Researchers from 2002 to date, she entered as level I, currently she is level II until 2020.

### Most recent publications:

1. Gonzalez-Garza MT, **Cruz-Vega DE**. Regenerative capacity of autologous stem cell transplantation in elderly: a report of biomedical outcomes. *Regen Med*. 2017 Mar;12(2):169-178.
2. Martinez-Gamboa M, **Cruz-Vega DE**, Moreno-Cuevas J, Gonzalez-Garza MT. Induction of Nestin Early Expression as a Hallmark for Mesenchymal Stem Cells Expression of PDX-1 as a Predisposing Factor for Their Conversion into Insulin Producing Cells. *Int J Stem Cells*. 2017 May 30;10(1):76-82.
3. Duval F, **Cruz-Vega DE**, González-Gamboa I, González-Garza MT, Ponz F, Sánchez F, Alarcón-Galván G, Moreno-Cuevas JE. Detection of Autoantibodies to Vascular Endothelial Growth Factor Receptor-3 in Bile Duct Ligated Rats and Correlations with a Panel of Traditional Markers of Liver Diseases. *Dis Markers*. 2016;2016:6597970.
4. Duval F, Moreno-Cuevas JE, González-Garza MT, Maldonado-Bernal C, **Cruz-Vega DE**. Liver fibrosis and mechanisms of the protective action of medicinal plants targeting inflammation and the immune response. *Int J Inflamm*. 2015;2015:943497.
5. Duval F, Moreno-Cuevas JE, González-Garza MT, Rodríguez-Montalvo C, **Cruz-Vega DE**. Protective mechanisms of medicinal plants targeting hepatic stellate cell activation and extracellular matrix deposition in liver fibrosis. *Chin Med*. 2014 Dec 24;9(1):27.

Webpage: [https://www.researchgate.net/profile/Delia\\_Cruz-Vega2](https://www.researchgate.net/profile/Delia_Cruz-Vega2)