

PROFESSIONAL AND ACADEMIC BACKGROUND

Javier Ortega-Ceseña

I. EDUCATION:

M.S. Environmental Health Sciences
University of Cincinnati

M.S. Basic Biomedical Research
College of Sciences and Humanities,
National Autonomous University of Mexico

Research Fellowship
Department of Chemistry and Biotechnology
Tokyo Institute of Technology

B.S. Chemistry
School of Chemistry,
National Autonomous University of Mexico

II. PROFESSIONAL EXPERIENCE

Environmental Consultant

Habitat Environmental, LLC

2013-

- Conduct up-to-date indoor environmental quality investigations and management services. in commercial industrial, and residential settings. These services include:
 - Mold contamination assessments
 - Microbiological assessment such as sewage back ups
 - Biological and chemical allergen assessments
 - Moisture intrusion assessments
 - Mitigation work plans and removal management
 - Methamphetamine clandestine lab assessments
 - Toxicological reviews for risk management

- Litigation support

Laboratory Manager

2012-2013

EMSL Analytical, Inc.

- Managed an environmental analytical laboratory
- Supervised and assessed the staff
- Interviewed and hired lab employees
- Trained qualified personnel to perform designated laboratory tasks
- Directed and managed project development from beginning to end in order to deliver projects according to plan
- Defined project objectives and oversaw quality control throughout its life cycle
- Ensured that quality assurance standards are established within the laboratory

Laboratory Director

Concentra Environmental Health and Safety Services

2007-2012

- Conducted indoor environmental quality assessments in commercial and residential settings.
- Managed and coordinated project development throughout its full cycle, including sampling strategy, sample collection, data interpretation, recommendations and report preparation in order to meet customer needs
- Conducted industrial hygiene surveys to assess chemical, physical and biological hazards
- Prepared toxicological reviews about chemical hazards in the workplace to assist clients in managing their occupational health risks
- Performed all of the functions performed as a laboratory manager for environmental mold analysis indicated above

Microbiologist and Industrial Hygiene Consultant

The Industrial Solutions Group, Quantus Analytical, LLC

2005-2007

- Managed a laboratory as described above
- Completed training courses *Indoor Air Quality: Fungal Spore Identification and Indoor Air Quality: Fungal Culture Plate Identification* at The McCrone Research Institute in Chicago, IL
- Performed mold identification and quantification, and supervise analysts/technicians
- Conducted environmental mold assessments in industrial facilities, buildings

- and residences
- Performed indoor assessments of biological allergens

Graduate Assistant

Department of Environmental Health, University of Cincinnati 1994-1999

- Investigated the environmental fate of organic pollutants in aquatic systems through coefficient partitioning
- Developed environmental analytical methods to assess pollutant-sediment interactions
- Assessed metal bioavailability of metallized dyes using acclimated microbial consortia
- Conducted exposure assessment projects in occupational settings including metals, wastewater, heat, and noise.

Head of the Department of Chronic Disease Research

National Institute of Public Health, Mexico 1992-1994

- Coordinated population-based environmental health studies, including overall overseeing, data collection, and their statistical analysis
- Conducted exposure assessments of environmental airborne oxidants and organochlorine compounds in human populations to elucidate health effects
- Advised an *ad hoc* U.S.-Mexico committee on the impact of NAFTA (North America Free Trade Agreement) on Mexican occupational health and safety regulations

Head of the Toxicology Department

Environmental Health Directorate, Ministry of Health, Mexico 1992

- Coordinated the national committee scientific task force for implementing a nationwide program on exposure lead control in Mexican consumer products
- Designed, and coordinated the development and issuance of 9 national environmental health standards in Mexico
- Collaborated in the development of a blood lead standard for occupational exposure in Mexico
- Conducted occupational safety and health surveys in hazardous industrial facilities in Mexico including pesticide manufacturing plants, foundries, neoprene assembly shops, lead chromate-based paint production factories.

Director of the Water Analysis Laboratory

Environmental Health Directorate, Ministry of Health, Mexico

1991-1992

- *Designed and implemented quality assurance/quality control laboratory programs*
- *Enrolled the laboratory in a U.S. blood lead proficiency testing laboratory program*
- *Implemented testing methods for environmental health standards compliance*

Research Associate

Institute of Biomedical Research,
National Autonomous University of Mexico

1982- 1991

- Developed and applied biochemical and molecular biology methods for the study of genetic organization of protozoa
- Designed, conducted and evaluated biomedical experiments on development biology using the parasite *Trypanosoma cruzi* as an experimental model.

Research Assistant

Institute of Biomedical Research,
National Autonomous University of Mexico

1980-1982

- Performed laboratory experiments and applied biochemical techniques
- Supervised undergraduate research students

III. TEACHING EXPERIENCE:

Lecturer - Introduction to Scientific Research
B.S. in Biomedical Research Program
National Autonomous University of Mexico

1989-1990

Laboratory Instructor - Biochemistry.

IV. PRESENTATIONS IN SCIENTIFIC MEETINGS

Ortega J, Hutchinson R, Tabor MW. Role of Biodegradation Pathways on Human Exposure and Environmental Fate of Azo Dyes. American Industrial Hygiene Conference and Exposition. Dallas, TX, May 17-23, 1997.

Ortega J, Hutchinson R, Tabor MW. Biotic Stability of Azo Dyes. Ten Years of Super Fund Basic Research Program Symposium. University of North Carolina at Chapel Hill, NC, February 23-26 1997.

López L, Sánchez L, Espinosa F, **Ortega J**, Dubrow R. Exposición a compuestos organoclorados y cancer mamario en la Ciudad de México [Organochlorine compounds exposure and Breast cancer in Mexico City]. VI National Congress of Public Health Research. Cuernavaca, Mor. January 1995.

Ortega J, Palazuelos E, Ruiz S, Romieu I, Muñoz I, Cortes M, Hernández M. Efectos del ozono en la incidencia, gravedad y duración de enfermedades de vías respiratorias en niños preescolares en la Ciudad de México. Estudio comparativo [Effects of ozone on incidence, severity and duration of respiratory diseases in preschool children in Mexico City. Comparative study]. V National Congress of Public Health Research. Cuernavaca, Mor. January 1994.

Ortega J, Carreón T, Chávez R, López L, Hernández M. La investigación en México sobre el impacto en la salud de los contaminantes químicos ambientales [Research in Mexico on the health impact of environmental pollutants]. IV National Congress of Public Health Research. Cuernavaca, Mor. January 1993.

Ortega J, Rubio J, Castañeda M. Diferencias estructurales entre la cromatina de *Trypanosoma cruzi* y la de eucariontes superiores [Structural differences between *Trypanosoma cruzi* chromatin and higher eukaryotes chromatin]. National Congress of Biochemistry. Oaxaca, Oax. November, 1988.

Rubio J, **Ortega J**, Castañeda M. Caracterización de la cromatina de *Trypanosoma cruzi* [Characterization of *Trypanosoma cruzi* chromatin]. VII National Congress of Parasitology. Puebla, Pue. October 1986

Ortega Ceseña J, Rubio J. Enfermedad de Chagas en México [Chagas disease in Mexico]. IV National Congress of Parasitology. School of Medicine, National Autonomous University of Mexico, May, 1986.

Sekiguchi T, **Ortega Ceseña J**, Yoshiaki N. DNA and amino acid sequences of 3 isopropylmalate dehydrogenase of *Bacillus coagulans*. Comparison with the enzymes of *Saccharomyces cerevisiae* and *Thermus thermophilus*. Annual Congress of the Japanese Society of Biochemistry, Sendai, Japan, September 1985..

Rubio J, **Ortega J**, Rosado Y, Vargas C, Sánchez R, Del Arenal P, Castañeda M. Características estructurales de la cromatina de *Trypanosoma cruzi* [Structural characteristics of *Trypanosoma cruzi* chromatin]. VIII National Congress of Microbiology, Madrid, Spain. September 1981.

Ortega Ceseña J, Rubio J, Del Arenal P, Castañeda M. Patrones electroforéticos de isoenzimas de *Trypanosoma cruzi* [Electrophoretic patterns of *Trypanosoma cruzi* isoenzymes]. XII National Congress of Microbiology. Mérida, Yuc. February 1981.

Ortega Ceseña J, Avila GG, Díaz JL. Separación y Dosificación de triptofano, serotonina y ácido 5 hidroxil 3 indolacético a partir de cerebro con Porapak Q [Separation and dosing of triptophan, serotonin and 5-hydroxy-indole acetic acid in brain using Porapak Q]. XVI National Congress of Physiology. Zacatecas, Zac. July 1973.

V. PUBLICATIONS

Roegner K, **Ortega J**. 2003. Finding a Reliable Laboratory. *Cleaning and Restoration*, 40 (7) 18-20.

Spanish translation of *Clinical Chemistry: Theory, Analysis & Correlation*. Editors: Lawrence A. Kaplan, Amadeo J, Pesce, Steven Kazmierczak, and **Javier Ortega-Cesena**, 1996, 3rd edition.

Carreón T, **Ortega J**. 1994. Mexican Legislation on the importation of hazardous chemical products. *Border Health J* 10:1-8

Ortega J, Tabor W. 1995. Control y aseguramiento de la calidad para la determinación de plomo en muestras humanas y ambientales en México [Quality control and quality assurance for lead determination in environmental and human samples in Mexico]. In: Hernández-Avila M, Palazuelos-Rendón E. (Eds.) *Intoxicación por plomo en México: Prevención y control* [Lead Poisoning in Mexico: Prevention and Control]. *Perspectivas en Salud Pública* 21. México: Instituto Nacional de Salud Pública.

Ortega J, Espinosa F, López L. 1994. El control de los riesgos para la salud generados por los plaguicidas organofosforados en México: Retos ante el Tratado de Libre Comercio [Health risk control for organophosphate pesticides in Mexico:

Prospects under the North American Free Trade Agreement]. *Salud Pública Mex*, 36:624-632.

Hernández M, Carreón T, Espinosa F, López L, **Ortega J**. 1994. *Salud Ambiental. Hacia un Pacto con la Naturaleza [Environmental Health: Building a New Agreement with Nature]*. Cuadernos de Salud 6. Los Retos de la Transición. México: Subsecretaría de Coordinación y Desarrollo, Secretaría de Salud.

Ortega J, Carreón T, Chávez R, López L, Hernández M. 1993. La investigación en México sobre el impacto en la salud de los agentes químicos ambientales [Research in Mexico on the health impact of environmental pollutants]. *Salud Pública Mex*, 35:585-591.

Ortega J. 1992. La legislación de la salud ocupacional en México [Occupational health legislation in Mexico] (working paper for the Mexico-U.S. Committee for Environmental and Occupational Health). Cuernavaca, Mexico: Instituto Nacional de Salud Pública.

Sekiguchi T, **Ortega Ceseña J**, Nosoh Y, Ohashi S, Tsuda K, Kanaya S. 1986. DNA and amino acid sequences of 3 isopropylmalate dehydrogenase of *Bacillus coagulans*. Comparison with the enzymes of *Saccharomyces cerevisiae* and *Thermus thermophilus*. *Biochim Biophys Acta*, 867:36-44.

Galván SC, Rubio J, Sánchez R, **Ortega J**, Castañeda M. 1983. Phenetic variation in *Trypanosoma Oschizotrypanum cruzi* isolates. *Comp Biochem Physiol*, 74B; 573-578.

VI. ACADEMIC AWARDS

National Council of Science and Technology of Mexico scholarship for pursuing a MS degree at the University of Cincinnati, 1996

UNESCO-Ministry of Education of Japan Fellowship for graduate students in chemistry and chemical engineering from developing countries (granted to 14 students every year), 1985.

Recipient of the third place for the Glaxo Foundation award on biomedical research. Research proposal: Exposure to organophosphate pesticides and breast cancer in Mexico City, 1995.

Recipient of the second place of the "AIDA WEISS" award on cancer research. Research proposal: Evaluation of biological markers for the early diagnosis of gastric cancer in an experimental model, 1989

VII. Current Professional Associations Memberships

Sigma Xi, The Scientific Research Society, Cincinnati Chapter. Associate Member