

JULIO ALFONSO **MERCADO** RODRIGUEZ  
Calle. De la Niebla #606, Fracc. San Marcos  
Mexicali, BC  
juliomr@hotmail.com

## **Work Experience**

### *Lyon Veterinary Hospital*

Av. Carpenters # 2066, Col. Bureaucrat, Mexicali, Baja California, Mexico.

February 2013-present

Responsible for conducting clinical medicine Veterinary Hospital in exotics, surgery and orthopedic soft tissue in small species, ultrasound and internal medicine in dogs, cats and exotic animals.

### *University of Xochicalco, Mexicali, Baja California, Mexico.*

*School of Medicine* in September 2012-Present

Professor of surgical laboratory and surgical technique

Coordinator of the Initiative "One Health"

School of Medicine

### *Autonomous University of Baja California*

February 2010-May 2012

Head of Veterinary Small Animal Hospital, Research Institute of Veterinary Science.

July 2009-February 2013

Professor, Institute for Research in Veterinary Science. Teaching the subjects of "Introduction to the New Companion Animals", "Exotic Animal Clinical Medicine" and "Management Techniques for Wildlife".

### *Zoological Society of San Diego*

Today-Fellow Researcher

Institute for Conservation Research

Zoological Society of San Diego

### *June 2009- August 2012*

Veterinarian replacement for the Zoological Society of San Diego. San Diego Zoo and Wild Animal Park.

Conducting clinical medicine from a variety of amphibians, reptiles, exotic birds and wild mammals.

Audubon Nature Institute, New Orleans, LA. USA

September 2007-April-2009

Associate Veterinarian

- Clinical Veterinary services for the Audubon Zoo, Audubon Aquarium of the Americas, Audubon Center for the Research of Endangered Species (ACRES). Maintaining the health of a diverse collection of species including terrestrial and aquatic mammals, reptiles, birds, amphibians and fish.
- Assistant Professor: Louisiana State University, School of Veterinary Medicine: Clinical teaching veterinary students last year, and residents during internal rotation program in Audubon Zoo.

### *CONZOOLVET*

Veterinary specialist consultancy, counseling zoos, shelters design, nutrition, clinical medicine, epidemiology and preventive medicine diseases endangered species, anesthesia protocols for wildlife

and aquatic species. Conservation medicine and ecosystem health.  
<https://www.facebook.com/pages/CONZOOLVET/298924577382?ref=hl>

*Autonomous University of Baja California*

August 2000-June 2003

Academic Professor

- Implementation and teaching courses in medicine of zoo animals and wildlife. Participation in research projects on wildlife.

*Autonomous University of Baja California*

August 1997 Agosto1998

Academic Technical

- Implementation and teaching courses in medicine of zoo animals and wildlife. Participation in research projects on wildlife.

*Private practice*

Mexicali, Baja California, Mexico

1995-1998

- Medicine small animal and exotic pets
- Medical pets and exotics Service.
- Attention deer and ostrich farms, circuses.
- Medical care and advice to farm psittacine birds

## **Education**

July-2007 August 2004

*Residence Specialization Zoo Animal Medicine*

(UC, Davis-Zoological Society of San Diego-San Diego Zoo Wild Animal Park- SeaWorld, San Diego)

- Medicine and Surgery of exotic animals, wildlife, including aquatic species.
- Research and publication of case studies and applied research on alien species.
- Participation in conferences and lectures, teaching veterinary students.

June 2003-July 2004

*Internship Zoo Animal Medicine*

Henry Doorly Zoo, Omaha, Nebraska

- Medicine and Surgery of exotic animals, wildlife, including aquatic species
- Preventive medicine in zoo, safari park and aquarium.
- Participation in research projects.

July 1998- December 1999

*Master of Veterinary Preventive Medicine*, subspecialty health of wildlife. School of Veterinary Medicine, University of California, Davis

- Project Thesis: Exposure to Infectious Diseases of two bighorn sheep populations in California. "Infectious disease exposure in two Populations of bighorn sheep (*Ovis canadensis* sp.)" In California. Co-authors: Walter M. Boyce DVM, PhD; David Hird DVM, MPVM, PhD.
- Electives: Health and Fauna Silvestre disease. Seminar on Conservation Biology in Veterinary Medicine, Wildlife Ecology, comparative anatomy and pathology of birds, fish conservation, Spatial Epidemiology, Veterinary Medicine

August 1990- 1994

*Degree: Medico Veterinario, MVZ*

Research Institute for Veterinary Science, Autonomous University of Baja California

- Thesis project: "Technical necropsy performed at the San Diego Zoo" Advisors: Jorge Hernandez De Anda MVZ, MPVM, PhD; Mikolon Andrea DVM, MPVM, PhD.

#### **Externships and participation in projects:**

*Health assessment and epidemiology of a population of bighorn sheep in UMA "La Huertita", Baja California Mexico.*

Ongoing project. 2014-2015. Performing animal capture, sampling collection and disease analysis of bighorn sheep

*Monitoring and rehabilitation of the Lagoon system in Mexicali, Baja California, Mexico.*

*2013 year round project.*

Evaluating and assessing the waterfowl population including cataloguing species for a RAMSAR wetland system.

*Reintroduction Program of the California Condor in Baja California, Mexico*

August 2002-July 2003

Veterinary Field

- Clinical evaluation of California condors reintroduced into Mexico.
- Assistance with the process of importing and exporting condors and the collection of biological samples between USA and Mexico.
- Project Zoological Society of San Diego -CICESE-UABC

*Anesthesia Monitoring African Elephant*

July 20-August 6, 2007

Veterinary Field

Songimvelo, South Africa

- Participating with Disney's Animal Kingdom and San Diego's Wild Animal Park.
- Project: "Vasectomy via laparoscopy Elephants" with Dr. Mark Stetter and Dr. Jeff R. Zuba.

*Externship in Veterinary Medicine Animal Zoo*

Feb-Mar 2003

Fossil Rim Wildlife Center, Glen Rose, Texas

- Assistance in the chemical capture, preventive medicine and therapies in exotic animals in a safari park.
- Supervisor: Robin Radcliffe DVM, Dipl ACZM.

*Externship Veterinary Medicine Animal Zoo*

Jun-Jul 2002

Zoological Garden Houston, Houston, Texas

- Assistance in the chemical capture, preventive medicine and therapies in exotic animals in a zoo.
- Epidemiological evaluation of mortality prairie chicken (Attwater's prairie chicken)
- Supervisors: Joseph Flanagan, Senior Veterinarian, Shirley Yeo Llizo, DVM, Marianne Tocidlowsky DVM, Dipl ACZM.

*Monitoring study of rabies in insectivorous bats in Mexicali, Baja California.*

2001

Research Institute for Veterinary Science, Autonomous University of Baja California.

In collaboration with Dr. Maricela Flores Ibarra

*Telemetry Monitoring Peninsular bighorn sheep (Ovis canadensis cremnobates)*

Jun-Aug 1995

Deep Canyon Research Station, University of California

- Study of the ecology of bighorn sheep in Santa Rosa Mountains, California, USA.
- Supervisor: Walter M. Boyce DVM, PhD.
- Field Researcher: Esther Rubin, BSc, PhD

Veterinary Externship in the Department of Pathology

Aug-Dec 1994

San Diego Zoo, San Diego, CA, USA

- Department of Pathology Center of Research of Endangered Species (CRES).
- Performing macroscopic and microscopic pathology.
- Supervisors: Lowenstine Linda DVM, Dipl ACVP .; Rideou Bruce DVM, PhD, Dipl ACVP.

Externship Veterinary Medicine Zoo

Dec 1993

Zoo Guadalajara, Guadalajara, Jalisco, Mexico

- Assistance in the chemical capture, preventive medicine and therapies in exotic animals in a zoo
- Supervisor: Francisco Rodriguez Herrejon DVM, MSc.

### **Courses Attended**

Preparation Course specialty examining American College in Zoological Medicine

2005 Wisconsin State University

2006 University of California, Davis

2007 North Carolina State University.

Oct. 2006 Merida, Yucatan, Mexico

Attendance and participation

23vo Congress AZCARM

### **Workshops**

"Conservation of non-human primates," Instructor: MSc Sunday Channels, Universidad Veracruzana, Mexico

"Noninvasive Techniques reproductive animal zoo" Instructor: DVM, MSc Juan Arturo Rivera Rebolledo, General Directorate of Zoos Mexico City

### **Attendance at conference**

Sept- 2003 (Minnesota), Oct- 2005 (Nebraska), Oct- 2006 (Florida)

American Association of Zoo Veterinarians (AAZV).

AAZV September 2006 Tampa, Fl

Workshop

"Bat Conservation Medicine and" Medicine and bat conservation

Basic aspects of medicine and conservation of micro and mega bats  
Panelists: Darryl Heard, DVM, PhD, Dipl ACZM, University of Florida

October 2003 AAZV Minneapolis, Minnesota  
Workshop  
"10th Workshop on wildlife pathology".

Oct. 2002 African Safari Puebla, Mexico  
Workshop "Disease Risk Assessment Workshop". Risk Analysis Workshop on Disease Transmission  
Conservation Breeding Specialty Group (CBSG).

Jun-Aug 2001 Envirovet  
Course-Workshop- Program in Conservation Medicine  
Envirovet Summer Institute (<http://www.cvm.uiuc.edu/envirovet/>).  
Director: Dr. Val Beasley, College of Veterinary Medicine, University of Illinois.  
Session one: Wildlife Health and terrestrial ecosystems. Plantation White Oak Conservation Center,  
Yulee, Florida.  
Session Two: Aquatic species and health of the aquatic environment and Toxicology, University of  
Minnesota, Duluth, Minnesota  
Session Three: Health and Medicine Fauna Silvestre at the interface with communities in developing  
countries, East Africa, Kenya, Africa.

Jun. 1998 AZCARM Guadalajara, Jalisco, Mexico  
Workshop  
Diagnosis of diseases in wildlife and aquariums. Speakers: Roberto Aguilar, DVM; Linda Munson DVM,  
PhD, Dipl ACVP .; Michael Garner, DVM, PhD, Dipl ACVP.

Jun. 1996 AZCARM Guadalajara, Jalisco, Mexico  
Workshop  
Diagnostic Techniques in Wildlife  
Speakers: Roberto Aguilar, DVM; Peregrine Wolff, DVM.  
Dic. 1995 Safe Capture International Glen Rose, Texas  
Workshop  
"Chemical Immobilization of animals: multi species".  
<http://www.safecapture.com>

Oct. 1994 UABC-Forest City Mexicali, Baja California, Mexico  
Course  
First course management and veterinary medicine in wild animals.  
Speaker: Jeffrey R. Zuba, DVM from the Wild Animal Park, Zoological Society of San Diego.

## **Conference Presentations**

### *Speaker and Coordinator*

September 2013 Parque Morelos SIMPATT Tijuana, Baja California  
1st Course of Clinical Medicine and Conservation of Parrots "  
"Zoonotic Diseases of Birds parrots"  
"The Impact of Conservation Hybridization"

*Speaker*

July 2013 Veterinarians in Web Virtual Conference (<http://campusveterinariosenweb.com/>)  
"Reproductive problems in reptiles"

*Speaker*

April 2012 AMVPEBCS La Paz Baja California Sur, Mexico  
Theoretical and Practical Course on the 2nd of small species  
"Exotic animals: application of diagnostic techniques in mammals, birds and reptiles"

*Speaker*

Veterinary Congress in September 2011 León (CVDL) León, Guanajuato, Mexico  
"Wild horses clinic in Medicine"  
"Common in captive wild swine Medical Problems"

*Speaker*

May 2011 IMFAC-Zoo Guadalajara, Jalisco, Mexico  
"BEHAVIORAL MANAGEMENT (Enrichment and Training) ANIMAL ZOO AND AQUARIUM" (Terrestrial Mammals, Birds, Reptiles, Fish and Marine Mammals)

*Guest Speaker*

July-2010 COMVEPE of Baja California AC - UABC Tijuana, Baja California, Mexico  
Speaker masterfully exotic animal medicine clinic  
International Congress of Veterinary Medicine Small Animal

May- 2010 COMVEPEE Ensenada, Baja California, Mexico  
Presentation  
Association of Small Animal Veterinarians in Ensenada  
"Principles of anesthesia in birds and reptiles"

April- 2010 COMVEPET Tijuana, Baja California Mexico  
Presentation  
Association of Small Animal Veterinarians in Tijuana  
"Emergency care for exotic animals"

February- 2010 COMVEPEM Mexicali, Baja California, Mexico  
Presentation  
Association of Small Animal Veterinarians in Ensenada  
"Principles of anesthesia in birds and reptiles"

Dec. 2009 COMVEPEM Mexicali, Baja California, Mexico  
Presentation  
Association of Small Animal Veterinarians in Mexicali  
"Clinical Findings in Reptiles (Squamata) with Reproductive Disease"

August-2009 COMVEPE of Baja California AC - UABC Tijuana, Baja California, Mexico  
Keynote speaker  
International Congress of Veterinary Medicine Small Animal  
"Clinical Medicine in Domestic Species Unconventional"

Nov. 2008 AZCARM Guadalajara, Jalisco, Mexico  
Presentation

25th Congress AZCARM

"Clinical Findings in Reptiles (Squamata) with Reproductive Disease"

"Treatment and Nutritional Support of an Anteater (Giant anteater) with Severe Trauma"

Oct. 2006 AZCARM Mérida, Yucatán, Mexico

Presentation

23rd Congress of AZCARM

"Determination of minimum anesthetic concentration fronted Parrot (Thick-billed parrot)".

Sept. 2006 AAZV Tampa, Florida

Presentation and Poster

Conference of the American Association of Zoo Veterinarians

"Determination of minimum anesthetic concentration of isoflurane in thick-billed parrots (Thick-billed parrot).

"Glucose levels in sedated Suidae and Tayasuidae at the San Diego Zoo".

Oct. 2005 AAZV Omaha, Nebraska

Presentation and Poster

Conference of the American Association of Zoo Veterinarians

"Colitis in captive tamarins displayed on semi-naturally mixed species exhibits in a North American zoo ".

"Mucosal colonic biopsies for diagnosis of sub-clinical in callitrichids colitis in a zoo collection ".

## **Publications**

"Minimum anesthetic concentration (MAC) of isoflurane in thick-billed parrots captive (Thick-billed parrot)", American Journal of Veterinary Research, Am J Vet Res 2008 Feb; 69 (2):. 189-94.

"Intraocular pressure (IOP) in Black-footed penguins (*Spheniscus demersus*) in captivity using rebound tonometry". Julio A. Market MVZ, MPVM; Gemechu Wirtu, DVM, PhD, Dr Med Vet Beaufrere Hugues, Dianna Lydick, RVT.

Journal of Avian Medicine and Surgery. Avian J Med Surg. 2010 Jun; 24 (2): 138-41.