

Dr. Marcus Wellfish

**Applicant** 

## WAVMA Aquatic Veterinarian Certification Program

## CertAqV Knowledge, Skills & Experience/Education (KSE) Record

Date submitted 29 Sept 2013

Mentor	Dr. Pisces, DVM, CertAqV	Date approved	10 Oct 2013	Comments _	KSE meets program requirements
Adjudicator 1		Date approved		Comments _	
Adjudicator 2		Date approved		Comments _	
Instructions					
KSEs must be unique to aqua 1 credit = 1 hou Please provide	at least at the level of what is expectic mammals, reptiles, amphibians, fur of study or activity). The mentor or a biography, résumé or curriculum v	ted in a veterinary c infish, crustaceans, adjudicators may re ritae along with this a	surriculum that lead or molluscs. Credit equire a full descrip application.	s to a recogn s are roughly tion and doc	skills and experience/education for each KSE Module. nized veterinary degree, and should cover information y equivalent hours spent obtaining a specific KSE (i.e. umented proof of any KSE claimed.
A. Continuing B. Academic I C. Post-Veteri D. Journal / Li E. Clinical Exp	Education and Professional Develop Programs or Courses (University Levinary Academic Training (Degrees, Interature Self-Study and Online Education	oment (CEPD) classovel)nternships, Residence ation	es/lectures cies, Certification) .	1 hou 2 cla Inter Articl Case Publi	ur = 1 credit ss hours = 1 credit (e.g., 40 hour week = 20 credits) n/Residency=50; MS=75; PhD/Board=100 credits e/webcast=1; Book=1/chapter up to 10 credits/book
=	re Knowledge, Skills & Experie			(150 total o	credits required)
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					4
KSE Module 9	: Principles of Aquatic Animal We	lfare			4

## PRE-CLINICAL SUBJECTS

Add rows to table as necessary

VCE Madula 4. Aquatia Equipament and Life Compart Cristoms	KSE Source	Credits	s (hrs)
KSE Module 1: Aquatic Environment and Life Support Systems List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Diseases of Fish Associated with Water Quality - N Saint-Erne - AVMA Convention, San Diego, CA. Aug 2012	Α	1	
Airlift Pumps in Recirculating Systems – Ron Malone - Aquaculture America, Las Vegas, NV. Feb 2012	Α	1	
Freshwater and Marine Life Support Systems – N Saint-Erne, AVMA Convention, Chicago, IL. Jul 2013	Α	1	
The Aquatic Environment – RJ Roberts – in Fish Pathology, Bailliere Tindall, 1989.	D	1	
Water Quality in Warmwater Fish Ponds. CE Boyd, Ag Exp Station, Auburn AL. 1979.	D	10	
Visiting lecturer for class years 2 and 3 - BSc Aquaculture, Flinders University, presented 8 hours of lectures. 2003	F	40	
Credits Claimed for Module 1 [minimum 25 credits required]		54	

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I/CE Madula 2. Tayonamy Anatamy and Physiology	KSE Source	Credits	s (hrs)
KSE Module 2: Taxonomy, Anatomy and Physiology List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Histology & Necropsy Techniques: G. Sanders. AVMA Convention ,San Diego, CA. Aug 2012	Α	1	
Gills: the Powerhouse of fish - Rob Jones - WAVMA Webinar, Jan 2013	D	1	
The Anatomy and Physiology of Teleosts – RJ Roberts – in Fish Pathology, Bailliere Tindall, 1989.	D	1	
Atlas of Trout Histology. Anderson & Mitchum, Wyoming Game & Fish Dept. 1974	D	9	
Fishes of the World, 4 <sup>th</sup> Ed. JS Nelson, Wiley & Sons, NJ. 2006	D	10	
Credits Claimed for Module 2 [10 minimum credits required]		22	

Add rows to table as necessary

KSE Modulo 3: Husbandry & Industries		Credits (hrs)	
KSE Module 3: Husbandry & Industries List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Developing Efficient & Effective Biosecurity Programs for Ornamental and Commercial Aquaculture Clients - Scarfe AD*, Walster CI, Palić D WAVMA Conference, Athens, Greece. Jul 2010	А	1	
The Ornamental Fish Industry - N Saint-Erne - Aquaculture America, Las Vegas, NV. Mar 2012	Α	1	
Worked directly in aquaculture industry for 13 years (2000-2013)	Е	26	
Credits Claimed for Module 3 [25 minimum credits required]		28	

## **CLINICAL SUBJECTS**

Add rows to table as necessary

KSE Module 4: Pathobiology & Epidemiology of Aquatic Animal Diseases		Credits	(hrs)
List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Emerging and Resurging Infections of Fish in the Great Lakes: Potential Threat to Conservation Efforts - Faisal M*, Loch TP - WAVMA Conference, Athens, Greece. July, 2010	А	1	
The Pathophysiology and Systemic Pathology of Teleosts – RJ Roberts – Fish Pathology, Bailliere Tindall, 1989.	D	1	
Hikkui Disease in Koi - N Saint-Erne - Aquatic Vet News 5(2) p16. Sept 2011	D	1	
Approaches to Emerging Diseases of Aquatic Animals - EM Bernoth - Aquatic Vet News 2(3) 2008; p13-22	D	1	
Aquariology: Fish Anatomy, Physiology, and Nutrition. JB Gratzek. Tetra Press, NJ. 1992	D	4	
Walster, CI, D. Palić & AD Scarfe (2011). Veterinary Aquaculture Biosecurity Concepts Manual (Version 1) – International Aquatic Veterinary Consortium, Ames, IA, USA. 309 pp.	D	10	
Health Maintenance and Principal Microbial Diseases of Cultured Fishes. JA Plumb, Iowa State Univ. 1999	D	10	
Credits Claimed for Module 4 [25 minimum credits required]		28	

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MCC Madula 5. Discrepation and Treatment of Assertic Animal Discrepa	KSE Source	Credits	s (hrs)
KSE Module 5: Diagnostics and Treatment of Aquatic Animal Diseases List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Fish Medicine Wet Lab - NAVC, Orlando FL. Jan 1999	А	6	
Ova Retention in Female Koi - N Saint-Erne - WAVMA Convention, Athens, Greece, Jul 2010	А	1	
Fish Vets in the Lab - George Sanders - AVMA Convention, San Diego CA. Aug 2012	А	1	
Therapeutic Options for Fish - N Saint-Erne - AVMA Convention, San Diego, CA. Jul 2012	А	1	
A Review of Non-Traditional Medicine in Aquatic patients - J Questen - AVMA Convention, San Diego, CA. 2012	А	1	
Fish Diagnostic Techniques Lab – AVMA Convention, Chicago, IL. Jul 2013	А	6	
Manual of Diagnostic Tests for Aquatic Animals 2012 - OIE - http://www.oie.int/international-standard-setting/aquatic-manual/access-online/	D	10	
Credits Claimed for Module 5 [25 minimum credits required]		27	

Add rows to table as necessary

KCE Madula C. Clinical Votarinam Experience and Client Communications	KSE Source	Credits	s (hrs)
KSE Module 6: Clinical Veterinary Experience and Client Communications List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Toxicology of Aquarium Fish - Helen Roberts, DVM, Brian S. Palmeiro, VMD. VetClinExotAnim 11 (2008) 359–374	D	1	
Surgery in Pet Fish - Werkman P* - WAVMA Conference, Athens, Greece. Jul 2010	Α	1	
Sedation and Anesthesia - Helen Roberts- AVMA Convention, San Diego, CA. Aug, 2012	Α	1	
Investigating Fish Kills in Private Practice - Helen Roberts - AVMA Convention, San Diego, CA. Aug, 2012	А	1	
Public Aquarium Practice: Practicing in a Fish Bowl - Scott Weber - AVMA Convention, San Diego CA. Aug 2012	Α	1	
Case Reports – 5 clinical cases from private practice (see provided medical records)	E	25	
Credits Claimed for Module 6 [25 minimum credits required]		30	

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MCC Medula 7. Dublic Health Togration and Conford Coloty	KSE Source	Credits	s (hrs)
KSE Module 7: Public Health, Zoonotics and Seafood Safety List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Is KHV Zoonotic? Assessing the Zoonotic Potential of Aquatic Animal Diseases - Walster CI* - WAVMA Conference, Athens, Greece. Jul 2010	А	1	
Managing Mycobacteriosis - Scott Weber - AVMA Convention, San Diego, CA. Aug 2012	Α	1	
Aquatic zoonoses associated with food, bait, ornamental, and tropical fish - Toby Lowry, DVM and Stephen A. Smith, DVM, PhD - JAVMA, Vol 231, No. 6, September 15, 2007	D	1	
Domestic Pet Turtle Market Access Act of 2007 – AVMA Position Paper Co-Author: AqVMC 2008	F	5	
Credits Claimed for Module 7 [5 minimum credits required]		8	

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VCC Madula O. Lagislation Degulations and Policies	KSE Source	Credits	s (hrs)
KSE Module 8: Legislation, Regulations, and Policies List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Aquatic Animal Health Code - OIE - http://www.oie.int/international-standard-setting/aquatic-code/access-online/	D	1	
Worked directly in regulation of aquaculture industry for 10 years	E	10	
AVMA Guidelines for the Euthanasia of Animals: 2013 – Aquatics Chapter – co-author	F	5	
Credits Claimed for Module 8 [5 minimum credits required]		16	

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VCC Medule O. Dringinles of Aquetic Animal Walfara	KSE Source	Credits	s (hrs)
KSE Module 9: Principles of Aquatic Animal Welfare List name of CEPD/Class/Article Source, Location and Date	Category (A,B,C,D,E,F)	Applicant Claimed	Mentor Approved
Information Resources on Fish Welfare - USDA-ARS - 2003	D	5	
Fish Welfare Webinar, R Loh. (http://thefishvet.com/2012/10/22/free-lecture-on-fish-welfare/)	D	1	
Johnston C and Jungalwalla P (2004) "Guidelines on welfare of fish and crustaceans in aquaculture and/or live holding systems for human consumption", National Aquaculture Council, Canberra	D	1	
Credits Claimed for Module 9 [5 minimum credits required]		7	

Total KSE Credits Claimed for Certification [minimum 150]:	220	