

Name: Dr Richmond Loh *DipProjMgt BSc BVMS MANZCVS MPhil CertAqV*
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Operates in: Western Australia, Queensland, Victoria, New South Wales, Tasmania, South Australia.

EDUCATIONAL BACKGROUND

University-based qualifications:

- Master of Philosophy – Veterinary Pathology, Murdoch University (2006)
- Bachelor of Veterinary Medicine & Surgery, Murdoch University (2001)
- Bachelor of Science, Murdoch University (2001)

Other qualifications:

- Certified Aquatic Veterinarian by the World Aquatic Veterinary Medical Association (2013).
 - Awarded the George Alexander International Fellowship by the International Specialised Skills Institute (2012).
 - Veterinary Investigation Management Training – Certificate 3 – Tocal College (2012).
 - Adjunct Lecturer for Murdoch University, School of Veterinary Science (2009).
 - Member Australian College of Veterinary Scientists (Veterinary Pathobiology) (2009).
 - Member Australian College of Veterinary Scientists (Aquatic Animal Health) (2006).
 - Founding Member of the World Aquatic Veterinary Medical Association (2007).
 - Diploma in Project Management – TAFE, Tasmania (2007).
 - Certificate in Companion Animal Services – Aquatics, Level 3 – Nelson Marlborough Institute of Technology (2009).
 - CMAVA (Chartered Member of the Australian Veterinary Association) (2006).
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CAREER SUMMARY

Dr Loh started his professional career, working for 6 years, as a veterinary fish pathologist at Mt Pleasant Laboratories in Tasmania. His skill set is unique, having been admitted as a Member of the Australian & New Zealand College of Veterinary Scientists (ANZCVS) by examination in both the subjects of "Aquatic Animal Health" and in "Pathobiology". As "The Fish Vet", he provides veterinary services for a range of clients and they include individual pet fish owners, public aquaria, retailers, wholesalers and fish farmers (ornamental and food fish). He has published two books entitled, "Fish Vetting Essentials" and "Fish Vetting Medicines – Formulary of Fish Treatments"; and an instructional DVD, "Fish Vetting Techniques and Practical Tips". He is working on more publications for the purpose of sharing and helping colleagues. He is an author and reviewer to several journals and other publications. He is an invited speaker nationally and internationally. He is passionate at promoting and advancing the field of aquatic animal health and is dedicated to serving his colleagues through the World Aquatic Veterinary Medical Association (WAVMA).

Pertinent Posts:

- President of the World Aquatic Veterinary Medical Association (2014);
- WAVMA Executive Board Member (2013-present).
- WAVMA WebCEPD Organiser (2013-present).
- Secretary for the Aquatic Animal Health Chapter of the Australian and New Zealand College of Veterinary Scientists (2011 - present);
- Adjunct lecturer at Murdoch University, School of Veterinary and Life Sciences (2009 - present);



EMPLOYMENT HISTORY

Aug 2002 - Present The Fish Vet
AQUATIC VETERINARY CONSULTANT

- Provide diagnostic, medical and veterinary consultancy services to a range of clients: ornamental pet fish (including retail, wholesale and exporters), public aquaria (AQWA), food fish (abalone, lobster, silver perch, barramundi, shrimp), educational institutions (zebrafish, sharks, catfish) and aquaponics.
- Adjunct lecturer at Murdoch University and provide lectures and tutorials on aquatics to veterinary and biomedical students, undergraduate and post-graduate classes (units V342, V452, V542, V631).
- Trainer and speaker nationally and internationally (Czech Republic, St Kitts & Nevis, New Zealand, Singapore, Thailand, USA, Australia).
- Have attended both Aquavet II and Seavet, gaining fast-track diversity of knowledge and networks.
- Provide support (email and phone) to colleagues with fish cases (globally).

Career achievements: Published books entitled, “*Fish Vetting Essentials*”, “*Fish Vetting Medicines*” and a DVD “*Fish Vetting Techniques & Practical Tips*”. President of the World Aquatic Veterinary Medical Association in 2014. Adjunct lecturer at Murdoch University. Secretary for the Aquatic Animal Health Chapter of the ANZCVS. Chartered Member of the Australian Veterinary Association in 2006. Reduced mortalities at a retail store to <0.5%. Strong presence on the internet/social media. Winner of the George Alexander International Fellowship (2012) and awarded the FRDC funding for the People Development Program (2011).

Feb 2002 – Jun 2007 Department of Primary Industries & Water, TASMANIA
VETERINARIAN (AQUATIC & TERRESTRIAL PATHOLOGY)

- Stock inspector and provide diagnostic pathology service for a variety of livestock (ruminants, porcine & poultry), wildlife (marsupials & avian species), aquatic species (finfish, shellfish & crustacea) and selected companion animals (rodents, horses, dogs & cats).
- I undertook a study on the Pathology of Devil Facial Tumour Disease (DFTD) in Tasmanian Devils (*Sarcophilus harrisii*) for my MPhil for which I have been awarded the degree. I have also undertaken other collaborative research projects such as the “Causes of Population Decline in Australian Shy Albatrosses (*Thalassarche cauta*)”, diagnostician for “National Survey of Diseases in Australian Abalone”.
- Presented talks relevant to diagnostic pathology to students, scientists and veterinarians at the ACVSc (Jul 2006), ASVP Conference (Apr 2003), AVA Conferences (2003-2006), Australian Wildlife Health Network AGM (Nov 2003), ANZSOM and AIMS (2006) on topics such as aquatic animal health, albatrosses and Devil Facial Tumour Disease.
- Dealing with and management of the Media, for which I had received departmental training, is also a requirement of my current employment. I had been interviewed by the BBC, Sunday Times (UK), Radio New Zealand, ABC Radio and News, WIN News, Pet Talk Radio, Cairns Post, Mercury and The Examiner to name a few.

Career achievements: Acquired MPhil, MANZCVS (Aquatics) and DipPM. Played in integral part in the Devil Facial Tumour Disease project since its inception. My focus was to formulate a case definition. As for many other disease investigations in animals, this key initial step would determine the direction of many of the other research priorities and directions for future research and more importantly control of the disease.



PUBLICATIONS / PRESENTATIONS - Aquatics

1. **Loh R., North N. & Rasidi E. Fish Vetting Aquatic Cases – Review of Fish Diseases and Treatments.** Richmond Loh Publishing, Perth (in prep).
2. **Loh R. & Rasidi E. Fish Vetting Axolotls (*Ambystoma mexicanum*).** Richmond Loh Publishing, Perth (in prep).
3. **Walster C, Saint-Erne & Loh R. Welfare of Ornamental Fish.** in Fish Welfare 2e. John Wiley & Sons, West Sussex, UK, (in press).
4. **Loh R. in Lewbart G. Ornamental Fish: Self-Assessment Colour Review 2nd Edition.** CRC Press, Abingdon, UK, (in prep).
5. **Loh R. Practical tips for diagnostic sampling and field diagnostics.** Aquatic Animal Health Technical Forum, FRDC, 17-19 June 2015, Townsville, Australia.
6. **Walster C, Rasidi E, Saint-Erne & Loh R. Welfare of Ornamental Fish in the Home Aquarium.** Companion Animal Journal, Vol 20, No 5, May 2015.
7. **Loh R. Water quality explained. How it can affect your axolotl's health.** World Small Animal Veterinary Association Conference, 15-18 May 2015, Bangkok, Thailand.
8. **Loh R. Common disease conditions in axolotls.** World Small Animal Veterinary Association Conference, 15-18 May 2015, Bangkok, Thailand.
9. **Loh R. Treatment Modalities and Medicines For Koi And Tropical Fishes.** World Small Animal Veterinary Association Conference, 15-18 May 2015, Bangkok, Thailand.
10. **Loh R. Diagnostic Techniques for Pet Fish.** World Small Animal Veterinary Association Conference, 15-18 May 2015, Bangkok, Thailand.
11. **Loh R. Water Quality 101.** WAVMA Webinar, B-1010, 10 April 2015.
12. **Loh R. Ornamental Fish Biosecurity 3-Day Workshop.** Agri-Food & Veterinary Authority of Singapore (AVA) and Fish Quarantine and Inspection Agency of Indonesia (FQIA), 3-5 Dec. 2014, Singapore.
13. **Loh R. Fish in laboratories and universities.** National University of Singapore (NUS) and Singapore Association for Laboratory Animal Science (SALAS) Seminar, 2 Dec. 2014, Singapore.
14. **Loh R. Fish Workshop: Veterinary Techniques.** Federation of Asian Veterinary Association Conference, Ngee Ann Polytechnic, 1 Dec. 2014, Singapore.
15. **Loh R. Common fish parasites - diagnostic features of parasites on microscopy and treatment options.** Federation of Asian Veterinary Association Conference, 29 Nov. 2014, Singapore.
16. **Loh R. Clinical signs of fish disease and routine diagnostic procedures.** Federation of Asian Veterinary Association Conference, 1 Dec. 2014, Singapore.
17. **Loh R. Full-day fish Lectures and Wet Lab.** Temasek Polytechnic, 29 Nov. 2014, Singapore.
18. **Loh R. Fish Vetting Techniques & Practical Tips: Instructional Video.** Richmond Loh Publishing, Perth, 2014 (DVD).
19. **Loh R. Pet fish medicines.** Companion Animal Journal. Nov 2014, Volume 19 No 11.
20. **Loh R. Wet preparation technique for fish diagnostics.** Companion Animal Journal. Oct 2014, Volume 19 No 10.
21. **Loh R. Water quality guide for fish veterinarians.** Companion Animal Journal. Sept 2014, Volume 19 No 9.
22. **Loh R. A run through of fish pathogens providing a series of clues before arriving at the diagnosis (parasite case studies).** American Veterinary Medical Association Convention, July 2014, Denver, USA (CD).
23. **Loh R. Treatment protocols: the art behind the choice of drugs and method of administration.** American Veterinary Medical Association Convention, July 2014, Denver, USA (CD).
24. **Loh R. The fish vet's pharmacy: what an aquatic veterinarian needs and what for.** American Veterinary Medical Association Convention, July 2014, Denver, USA (CD).



25. **Loh R. Ornamental Fish Diseases.** WAVMA Webinar, 15 July 2014.
26. **Loh R. Practical Fish Anaesthesia.** Annual Australia and New Zealand Zebrafish Husbandry Workshop. Garvan Institute, Sydney, 5 Feb. 2014.
27. **Loh R. How to get your 'flipper' in, to become a fish vet.** World Veterinary Congress, September 2013, Prague, Czech Republic.
28. **Loh R. How to recognise and interpret clinical signs of disease in ornamental and pet fish.** World Veterinary Congress, September 2013, Prague, Czech Republic.
29. **Loh R. Common diseases in ornamental and pet fish.** World Veterinary Congress, September 2013, Prague, Czech Republic.
30. **Loh R. Aquatic Veterinary Board Certification & Specialization Programs.** in NOVICE (Network of Veterinary ICT in Education) International Conference, October 2012, Bucharest, Romania.
31. **Loh R. Fish Vetting Medicines – Formulary of Fish Treatments.** Richmond Loh Publishing, Perth, 2012.
32. **Loh R. and Landos M. Fish Vetting Essentials.** Richmond Loh Publishing, Perth, 2011.
33. A.A. Mahjoor and **R. Loh** (2008) **Some Histopathological Aspects of Chlorine Toxicity in Rainbow Trout (*Oncorhynchus mykiss*).** *Asian Journal of Animal and Veterinary Advances*, 3: 303-306.
34. **Loh R. The world of aquatic parasites – Accurate diagnosis for treatment success.** in Unusual & Exotic Pets Session, Conference Proceedings, AVA Annual Conference 2008, May, Perth, Australia (CD).
35. **Loh R. and Landos M. All you wanted to know about fish welfare but were afraid to ask.** in Animal Welfare Session, Conference Proceedings, AVA Annual Conference 2008, May, Perth, Australia (CD).
36. **Loh R. Does it float or does it sink? A perennial problem with fancy goldfish.** in Aquatic Animal Health Session, Conference Proceedings, AVA Annual Conference 2007, May, Melbourne, Australia (CD).
37. **Loh R. and Landos M. Buying Australian fish for aquaria. The potential benefits for the home aquarist, the domestic industry and the environment - (plus a practical list of measures a home aquarist can do to limit the risk of introducing new diseases to their tanks).** In Unusual and Exotic Pets Group Session, Conference Proceedings, AVA Annual Conference 2007, May, Melbourne, Australia (CD).
38. **Loh R. and Landos M. Ornamental fish welfare - making fish smile, sing and dance.** Conference Proceedings, AVA Annual Conference 2006, May, Hobart, Tasmania (CD).
39. Handlinger JH, Bastianello S, Carson J, Callinan R, Creeper J, Deveney M, Freeman K, Forsyth M, Hooper C, Jones B, Lancaster M, Landos M, **Loh R**, Oyay BS, Phillips P, Pyecroft S and Stephens F. **Diseases Of Australian Abalone – Findings From A National Survey.** International Abalone Symposium, Chile, Feb 2006.
40. **Loh R. Preparation for the fish consultation, Common disease categories of fish, Goldfish and Discus care sheets.** In Fowler A. (Ed.). Proceedings for the Unusual and Exotic Pet Veterinarians Annual Conference of the Australian Veterinary Association, Rydges Hotel, Melbourne, pg 93-97, 22-23 Oct, 2005.
41. **Loh R. Reducing Losses in Aquaria.** Pet Expo, Pet Industry Association of Australia, Sydney Showgrounds, Sydney, Australia, 17 Oct 2005 (workshop).
42. Pyecroft S, Landos M, **Loh R**, Chong R, Doroudi M, Herfort A and Go J. **Aquaculture Stream.** Australian Veterinary Association Annual Conference, Gold Coast, Queensland, Australia, May 2005.
43. **Loh R. and Landos M. Fish Vetting Essentials.** In Cannon MJ (Ed.). Proceedings for the First Annual Conference of the Unusual and Exotic Pet SIG of the Australian Veterinary Association, Mona Vale Conference Centre, pg 2-54, 13-14 Nov, 2004.



44. Handlinger JH, Callinan R, Creeper J, Lancaster M, Landos M, **Loh R**, Phillips P, Pyecroft S and Stephens F. **A national survey of disease of commercially exploited abalone species – A move to advance both profit and sustainability.** In Australasian Aquaculture: Profiting from Sustainability, p153, Sept 26-29, 2004.
45. **Loh R.** and Landos M. **An Introduction to Fish Medicine.** In Hume S. (Ed.). Proceedings for the First Joint Conference of the Unusual and Exotic Pet and Avian SIG's of the Australian Veterinary Association, AVA National Conference, Canberra Convention Centre, 6-7 May 2004.
46. Bowater R, Pyecroft S, Hardy-Smith P, **Loh R**, Whittington R, McColl K, Sampson I and Baldock C. **Ornamental Fish Health, Medicine and Surgery.** Australian Veterinary Association Annual Conference, Cairns Convention Centre, Queensland, Australia, May 2003.

MAGAZINE/JOURNAL

Regular contributor to:

1. The Aquatic Veterinarian (quarterly journal by WAVMA)
2. The Veterinary Nurse
3. Companion Animal Journal
4. Your Pet Magazine
5. Pet Directory
6. Australian Aquarium Magazine
7. Aquarium Keeper Australia

ELECTRONIC

1. Official **TheFishVet Website** - <http://www.thefishvet.com.au>
2. Provide technical expertise during the development of the **RSPCA's knowledge bank** on fish - <http://kb.rspca.org.au/74/>
3. A selection of fact sheets at **Petalia** - <http://www.petalia.com.au>
4. The Fish Vet's **Facebook Page** - <http://www.facebook.com/thefishvetdrloh>
5. The Fish Vet's **Blog** - <http://www.thefishvet.com/> (Wordpress)
6. The Fish Vet's **YouTube Channel** - <http://tinyurl.com/thefishvet-tube>
7. Expert on aquatic animal health at **eHow Now Pets**.

RESEARCH ARTICLE REVIEWER

1. Veterinary Medicine International
2. Journal of Fish Diseases
3. The Aquatic Veterinarian
4. Australian Veterinary Journal



INVOLVEMENTS / PROFESSIONAL AFFILIATIONS

- Dec 2013 – Dec 2015: **Executive Board** of the **World Aquatic Veterinary Medical Association**.
- Dec 2013 – Dec 2014: **President** of the **World Aquatic Veterinary Medical Association**.
- 2013 : **Fellow** of the **International Specialised Skills Institute**.
- May 2012 – Present: Member of the **European Association of Fish Pathologists**.
- Apr 2012 – 2014: **Communications Committee** Member of **WAVMA**.
- Oct 2011 – Present: Member of **International Association for Aquatic Animal Medicine**.
- Oct 2011 – Present: **Secretary/Treasurer** for the **Aquatic Animal Health Chapter of the ANZCVS**.
- Jan 2009 – Present: **Adjunct lecturer**, Murdoch University.
- Jul 2008 – Nov 2010: **Treasurer** for the **Australian Society for Veterinary Pathologists**.
- Jul 2007 – Present: **Founding Member of the World Aquatic Veterinary Medical Association**.
- Jul 2006 – Present: **Member of the Australian & NZ College of Veterinary Scientists**.
- Mar 2004 – Feb 2007: **Committee Member** for the **AVA, Tasmanian Division**.
- May 2003 – 2012: Active member of the **Australian Veterinary Association Special Interest Group for the Unusual and Exotic Pet Veterinarians**.
- Apr 2003 – Present: Member of the **Australian Society of Veterinary Pathologists**.
- Mar 1997 – 2007: Member of the **Australian Veterinary Association**.

