

QUALIFICATIONS

PhD (Biological Sciences) University of Auckland, 2010

BSc (Hons) (Biological Sciences) University of Auckland, 2003

BA (Spanish & Latin American Studies) University of Auckland, 2002

BSc (Marine Science) University of Auckland, 2002

PROFESSIONAL AFFILIATIONS

New Zealand Marine Sciences Society

ROLE AT CAWTHRON

Zoë is a member of Cawthron's Aquaculture and Biotechnology Group and is based at the Institute's Glenhaven Aquaculture Centre. She brings her experience in ecological physiology, biochemistry and evolutionary biology to support research on selective breeding, productivity, resilience, cryopreservation and ecotoxicology in fish and shellfish. Zoë is also a member of the Cawthron Institute's Sustainability Taskforce.

SPECIAL INTERESTS & ACHIEVEMENTS

Ecological physiology of marine invertebrates and fishes

Bioenergetics

Lipid metabolism

Evolutionary biology

Physiological ecology & evolution of NZ tripterygiid fishes

Sustainable systems

SELECTED PUBLICATIONS

Hilton Z, Clements KD, Hickey AJR 2010. Temperature sensitivity of cardiac mitochondria in intertidal and subtidal triplefin fishes. *Journal of Comparative Physiology B* 180, 979–990.

Hilton Z, Wellenreuther M, Clements KD 2008. Physiology underpins habitat partitioning in a sympatric sister-species pair of intertidal fishes. *Functional Ecology* 22, 1108–1117.

Hilton Z, Poortenaar CW, Sewell MA 2008. Provisioning and utilisation of lipid and protein during early development of yellowtail kingfish, (*Seriola lalandi*). *Marine Biology* 154: 855-865.



Hilton Z, Hickey AJR, Clements K D 2007. What sets the upper thermal tolerance limit in marine ectotherms? Evidence for the role of heart mitochondria. Presentation. New Zealand Marine Sciences Society Conference, New Zealand.

Hilton Z, Hickey AJR, Wellenreuther M, Clements K D 2006. Respiratory adaptation and ecological radiation in New Zealand triplefin fishes. Presentation. First International Congress of Respiratory Biology (ICRB), Bonn, Germany.

Hilton Z, Hickey AJR, Wellenreuther M, Clements KD 2006. Respiratory adaptation and ecological radiation in New Zealand triplefin fishes. Poster. XIV International Conference on Dioxygen Binding and Sensing Proteins, Naples, Italy.

Hilton Z, Hickey AJR, Wellenreuther M, Clements KD 2006. Respiratory adaptation and ecological radiation in New Zealand triplefin fishes. Presentation. New Zealand Marine Sciences Society Conference, New Zealand.

Hilton Z, Wellenreuther M, Clements KD 2005. Ecological diversification of two intertidal triplefin fish species in New Zealand. Poster. 10th Congress of the European Society for Evolutionary Biology, Poland.

Hilton Z, Poortenaar CW, Sewell MA 2003. Provisioning and utilisation of lipid and protein during early development of yellowtail kingfish, *Seriola lalandi*. Presentation. New Zealand Marine Sciences Society Conference, New Zealand.