

## T. Aran Mooney: Publications

### Publications

Directly below is a list of recent publications by Aran Mooney. Below and to the right are the associated pdf files in the "Related Files" section. For these pdfs you may also contact Aran at [amooney@at.who.edu](mailto:amooney@at.who.edu).

Samson, J, Mooney, TA, Hanlon, R, and Guskerloo, S. 2014. Behavioral responses and potential habituation to sound stimuli in cuttlefish, *Sepia officinalis*. *Journal of Experimental Biology*. 217 (24) 4347-4355.

Kaplan, MB, Mooney, TA, Sayigh, L, Baird, R. 2014. Repeated call types in Hawaiian melon-headed whales (*Peponocephala electra*). *Journal of the Acoustical Society of America*. 36(3): 1394–1401.

Pfister, CA, Esbaugh, A, Frieder, C, Baumann, H, Bockmon, E, White, M, Carter, B, Benway, H, Blanchette, C, Carrington, E, McClintock, J, McCorkle, D, McGillis, J, Mooney, TA and Ziveri, P. Detecting the Unexpected: A Research Framework for Ocean Acidification. *In Press* to *Environmental Science and Technology*, Special Issue on "Ocean Acidification: its Causes, Consequences, and Cures" DOI: 10.1021/es501936p

Scharr, AL, Mooney, TA, Schweizer, FE, and Ketten DK. 2014. Aminoglycoside induced damage in the statocyst of squid, *Loligo pealeii*. *Biological Bulletin*. 227(1) 51-60.

Castellote<sup>@#</sup>, Mooney, TA<sup>@</sup>, M, Hobbs, R, Quackenbush, L, Goetz, C, Gaglione, E. 2014. Baseline hearing abilities and variability in wild beluga whales (*Delphinapterus leucas*). *Journal of Experimental Biology*. 217, 1682-1691. <sup>@</sup> Denotes equal contribution by the authors and sharing first authorship

Mooney, TA, Li, SH, Ketten, DK, Wang, K, and Wang D. 2014. Hearing pathways in the finless porpoise, *Neophocaena asiaorientalis asiaorientalis*. *Journal of Experimental Biology*. 217, 444-452. doi: 10.1242/jeb.093773.

Kaplan, M\*, Mooney, TA, McCorkle, D, Cohen, A. 2013. Adverse Effects of Ocean Acidification on Early Development of Squid (*Doryteuthis pealeii*). *PLoS ONE* 8(5): e63714. doi:10.1371/journal.pone.0063714

Mooney, TA, Yamato, M\*\*, and Branstetter, BK. 2012. Hearing in cetaceans: From natural history to experimental biology. 63: 197-246. *Advances in Marine Biology*. (invited review) \*Cover Article.

Strobel, SM\* and Mooney, TA. 2012. Detection of low frequency tones and whale predator sounds by American sand lance *Ammodytes americanus*. *Journal of Fish Biology*. DOI: 10.1111/j.1095-8649.2012.03423.x.

Mooney, TA, Hanlon, RT, Christensen-Dalsgaard, J, Madsen, PT, Ketten, DR, Nachtigall, PE (2012). "The potential for sound sensitivity in cephalopods." In: *The Effects of Noise on Aquatic Life* (eds). Popper, A, Hawkins A. Springer Science+Business Media, LLC, New York. pg 125-128.

Mooney, TA, Li, SH, Ketten, DK, Wang, K, and Wang D. 2011. Auditory temporal resolution and evoked responses to pulsed sounds for the Yangtze finless porpoises (*Neophocaena phocaenoides asiaorientalis*). *Journal of Comparative Physiology A*. 197:1149–1158. doi: 10.1007/s00359-011-0677-y

Mooney, TA, Hanlon, RT, Christensen-Dalsgaard, J, Madsen, PT, Nachtigall, PE, Ketten, DR. 2010. Sound detection by the longfin squid (*Loligo pealeii*) studied with auditory evoked potentials: sensitivity to low-frequency particle motion and not pressure. *Journal of Experimental Biology*. 213: 3748-3759.

Aprill, A, Mooney, TA, Lyman, E, Stimpert, A, and Rappé, M. 2010. Bacterial communities associated with the skin of free-ranging and health-compromised humpback whales. *Environmental Microbiology and Environmental*



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Journal of Experimental Biology cover article on the hearing of wild white-beaked dolphins



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Journal of Experimental Biology cover article on the hearing of polar bears

Microbiology Reports. doi: 10.1111/j.1758-2229.2010.00213.x

Mooney, TA, Lee, WJ, and Hanlon, RT. 2010. Long-duration anesthetization of squid (*Doryteuthis pealeii*). *Marine and Freshwater Behavior and Physiology*. 43(4): 297–303

Mooney, TA, Pacini, AP and Nachtigall, PE. 2009. False killer whale (*Pseudorca crassidens*) echolocation and acoustic disruption: Implications for long-line bycatch and depredation. 87: 726-733. *Canadian Journal of Zoology*.

Mooney, TA, Nachtigall, PE, Vlachos, S. 2009. Sonar-induced temporary hearing loss in dolphins. doi: 10.1098/rsbl.2009.0099. 5: 565-567. *Biology Letters*.

Mooney, TA, Nachtigall, PE, Breese, M, Vlachos, S, and Au, WWL. 2009. Predicting temporary threshold shifts in a bottlenose dolphin (*Tursiops truncatus*): the effects of noise level and duration. 125(3): 1816-1826. *Journal of the Acoustical Society of America*.

Mooney, TA, Nachtigall, PE, Taylor, KA, Rasmussen, MH, and Miller, LA. 2009. Auditory temporal resolution of a wild white-beaked dolphin (*Lagenorhynchus albirostris*). 195:375-384. *Journal of Comparative Physiology A*.

Mooney, TA, Nachtigall, PE, Castellote, M, Taylor, KA, Pacini, AP, and Esteban, JA. 2008. The hearing pathways and directional sensitivity of the beluga whale, *Delphinapterus leucas*. 362(2): 108-116 *Journal of Experimental Marine Biology and Ecology*.

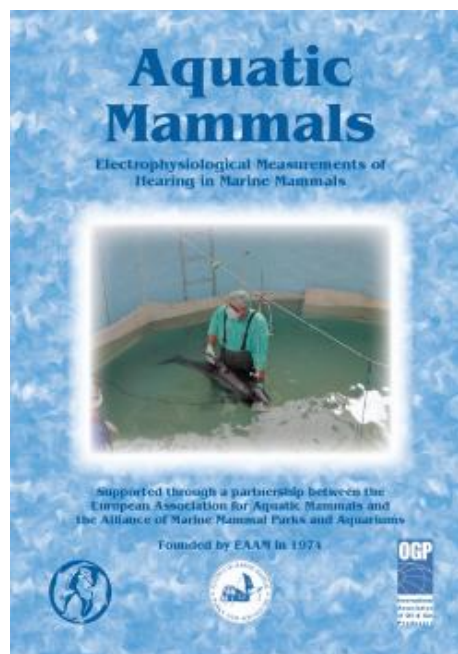
Nachtigall, PE, Mooney, TA, Taylor, KA, Miller, LA, Rasmussen, MH, Akamatsu, T, Teilmann, J, Linnenschmidt, M, and Vikingsson, G. 2008. Shipboard measurements of the hearing of the white-beaked dolphin, *Lagenorhynchus albirostris*. 211(4): 642-647 *Journal of Experimental Biology*. \*Cover Article.\*

Lammers, MO, Brainard, RE, Au, WWL, Mooney, TA, Wong, K. 2008. An ecological acoustic recorder (EAR) for long-term monitoring of biological and anthropogenic sounds on coral reefs and other marine habitats. 123(3): 1720-1728. *Journal of the Acoustical Society of America*.

Mooney TA, Au, WWL, Nachtigall PE, and Trippel, EA. 2007. Acoustic and stiffness properties of gillnets as they relate to small cetacean bycatch. 64(7): 1324-1332. *ICES Journal of Marine Science*.

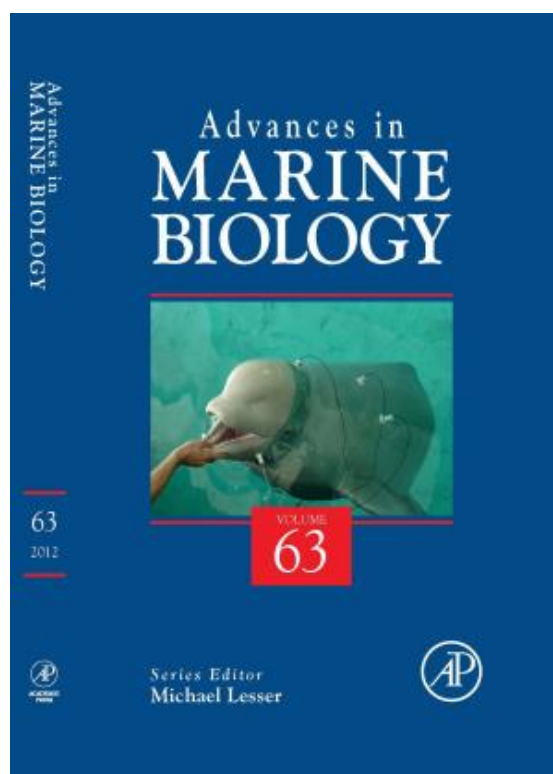
Taylor, KA, Nachtigall, PE, Mooney, TA, Supin, AYa, and Yuen, MML. 2007. A portable system for the evaluation of the auditory capabilities of marine mammals. *Aquatic Mammals*. 33(1): 6-13.

Nachtigall, PE, Mooney, TA, Taylor, KA, Yuen, MMY. 2007. Hearing and auditory evoked potential methods as applied to Odontocete cetaceans. *Aquatic Mammals*. 33(1): 93-99. \*Cover Article.\*



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Aquatic Mammals cover of a special issue on the application and techniques of auditory evoked potential hearing measurements



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A review on cetacean hearing

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- » [Samson Mooney et al 2014 JEB Sepia](#)  
Cuttlefish behavioral responses to sound
- » [Kaplan Mooney et al 2014 MHW calls](#)  
melon-whale calls from DTAG
- » [Pfister Mooney et al 2014 EST](#)  
A review of OA research priorities
- » [Mooney et al 2014 JEB](#)  
porpoise hearing pathways

Nachtigall, PE, Supin A Ya, Amundin, M, Röken, B, Møller, T, Mooney, TA, Taylor, KA, and Yuen, MMY. 2007. Polar bear, (*Ursus maritimus*), hearing measured with auditory evoked potentials. *Journal of Experimental Biology*. 210(7): 1116-1122. \*Cover Article.\*

Mooney TA, Nachtigall PE, Yuen MMY. 2006. Temporal resolution of the Risso's dolphin, *Grampus griseus*, auditory system. *Journal of Comparative Physiology A*. 192: 373-380.

Nachtigall, PE, Yuen, MMY, Mooney TA, Taylor KA 2005. Hearing measurements from a stranded infant Risso's dolphin, *Grampus griseus*. *Journal of Experimental Biology*. 208: 4181-4188.

Mooney, TA, Nachtigall, PE, and Au, WWL. 2004. Target strengths of a nylon monofilament and an acoustically enhanced gillnet: Predictions of biosonar detection ranges. *Aquatic Mammals*. 30(2): 220-226.

\* indicates undergrad at the time of the efforts; \*\* indicates grad student; # indicates post doc

Last updated: December 31, 2014

- » [Kaplan Mooney et al 2013](#)  
Squid ocean acidification
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Odontocete comparative temporal resolution (white-beaked dolphin focus)
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Beluga directional hearing
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