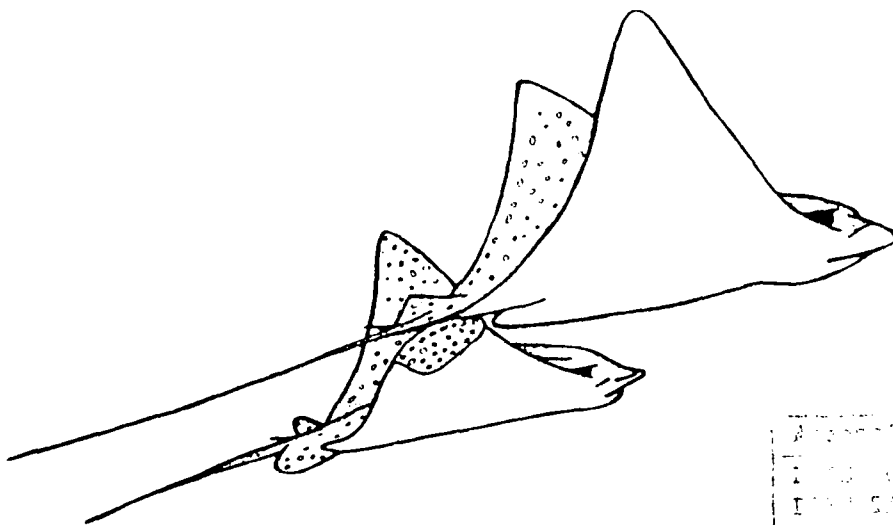




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## Proceedings

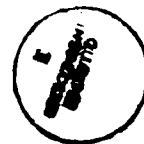


1988  
volume 19

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*Natl. Aq. in Baltimore  
501 E. Pratt St  
Baltimore, Md. 21202*

Approved for	
Issue Date	
Issue No.	4
Volume	
Number	
By NOSC	
Distribution	
Availability Codes	
Dist. Statement	
Dist. Statement	21
A-1	<del>21</del>



Serological Profile of Bacterial Pathogens  
in Wild and Captive Marine Mammals

N.A. Vedros, L. Suer, J.P. Zhang,  
K. MacKnight, J.P. Schroeder and J.L. Dunn

There is an increasing body of knowledge on the microbial flora of captive and wild marine mammals. The expense and practicality, however, of isolation and identification of pathogens indicate that sero-surveys may be a viable alternative.

In the present study, Salmonella sp. (C<sub>2</sub>), Past. multocida, Ery. rhusiopathiae, and Vibrio alginolyticus (all marine mammal isolates) were used as antigens in the ELISA to measure antibodies in 343 captive and wild pinnipeds and cetaceans. The IgG levels in newborn, stranded, and wild pinnipeds were significantly lower to all pathogens compared with captive animals; lower in wild cetaceans versus captive; and absent in a newborn killer whale. The usefulness of ELISA in disease diagnosis will be discussed.