

# Additional Publications

## As at 15 July, 2003

**Prof G.Adrian Horridge**

Research School of Biological Sciences

Institute of Advanced Studies

Australian National University

P O Box 475

Canberra

ACT 2617

Australia

E-mail: horridge@rsbs.anu.edu.au

Reprint Nos.

1. 1951 Occurrence of Asparagopsis armata Harv. on the Scilly Isles. *Nature*, 167, 732-734.
2. 1952 Birds on Palma and Gomera. *Ibis*, 94, 68-84. Results of a survey on these islands.
3. 1953 An action potential from the motor nerves of the jellyfish Aurellia aurita Lamarck. *Nature*, 171, 400.
4. 1954 Observations on the nerve fibres of Aurellia aurita. *Quart. J. Micr. Sci.* 95, 85-92.
5. 1954 The nerves and muscles of medusae. I. Conduction in the nervous system of Aurellia aurita Lamarck. *J. exp. Biol.* 31, 594-600.
6. 1955 The nerves and muscles of medusae. II. Geryonia proboscidalis Eschscholtz. *J. exp. Biol.* 32, 555-568.
7. 1955 The nerves and muscles of medusae. III. A decrease in the refractory period following repeated stimulation of the muscle of Rhizostoma pulmo. *J. exp Biol.* 32, 636-641.
8. 1955 The nerves and muscles of medusae. IV. Inhibition in Aequorea forskalea. *J. exp. Biol.* 32, 642-648.

9. 1956 The nerves and muscles of medusae. V. Double innervation in Scyphozoa. J. exp. Biol. 33, 366-383.
10. 1956 A polarized-light study of glass-fibre laminates. Brit. J. Applied Physics. 6, 314-319.
11. 1956 The nervous system of the ephyra larva of Aurellia aurita. Quart. J. Micr. Sci. 97, 59-74.
12. 1956 The responses of Heteroxenia (Alcyonaria) to stimulation and to some inorganic ions. J. exp. Biol. 33, 604-614.
13. 1956 A through-conduction system co-ordinating the protective retraction of Alcyonium (Coelenterata). Nature, 178, 1476-1477.
14. 1956 The flight of very small insects. Nature, 178, 1334-1335.
15. 1957 The co-ordination of the protective retraction of coral polyps. Phil. Trans. R. Soc. B. 240, 495-529.
16. 1957 Responses of Cerianthus (Coelenterata). Nature, 180, 1369-1370.
17. 1958 The co-ordination of the responses of Cerianthus (Coelenterata). J. exp. Biol. 35, 369-382.
18. 1957 (with H. Broch)  
A new species of Solenopodium (Stenolifera, Octocorallia) from the Red Sea. Proc. Zool. Lond. 128/2, 149-160.
19. 1958 Transmission of excitation through the ganglia of Mya (Lamellibranchiata). J. Physiol. 143, 553-572.
20. 1959 The nerves and muscles of medusae. VI. The rhythm. J. exp. Biol. 36, 72-91.
21. 1959 Analysis of the rapid responses of Nereis and Harmothoe (Annelida). Proc. R. Soc. Lond. B. 150, 245-262.
22. 1960 Pitch discrimination in Orthoptera (Insecta) demonstrated by responses of central auditory neurones. Nature, 185, 623-624.

23. 1961 The centrally determined sequence of impulses initiated from a ganglion of the clam Mya. J. Physiol. 155, 320-336.
24. 1961 Pitch discrimination in locusts. Proc. R. Soc. Lond. B. 155, 218-231.
25. 1960 (with M.S.V. Roberts)  
Neuro-muscular transmission in the earthworm. Nature, 186, 650.
26. 1961 The organization of the primitive central nervous system as suggested by examples of inhibition and the structure of neuropile. Reprinted from "Nervous Inhibition". Ed. E. Florey. Pergamon Press.
27. 1962 Learning of leg position by headless insects. Nature, 193, 697-698.
28. 1962 Naked axons and symmetrical synapses in an elementary nervous system. Nature, 193, 899-900.
29. 1962 An annelid proprioceptor. Nature, 195, 403.
30. 1962 Learning of leg position by the ventral nerve cord in headless insects. Proc. R. Soc. B. 157, 33-52.
31. 1962 (with B.M. MacKay)  
Naked axons and symmetrical synapses in coelenterates. Quart. J. Micr. Sci. 103, 531-541.
32. 1963 Proprioceptors, bristle receptors, efferent sensory impulses, neurofibrils and number of axons in the parapodial nerve of the polychaete Harmothoe. Proc. R. Soc. 157, 199-222.
33. 1963 Comparative physiology: Integrative action of the nervous system. Ann. Rev. Physiol. 25, 523-544.
34. 1964 Non-specific systems and differences between neurons in lower animals in "Comparative Neurochemistry". Ed. S. Richter, Pergamon Press.
35. 1964 (with J.M. Armson)

- An investigation of Factor S of Crustacea, J.  
Neurochem. 11, 387-395.
36. 1964 Multimodal interneurons of locust optic lobe.  
Nature, 204, 499-500.
37. 1964 Presumed photoreceptive cilia in a ctenophore.  
Quart. J. Micr. Sci. 105, 311-317.
38. 1964 (with R.A. Chapman)  
Sheaths of the motor axons of the crab Carcinus.  
Quart. J. Micr. Sci. 105, 175-181.
39. 1964 (with B.M. MacKay)  
Neurociliary synapses in Pleurobrachia (Ctenophora).  
Quart. J. Micro. Sci. 105, 163-174.
40. 1964 (with D.C. Sandeman)  
Nervous control of optokinetic responses in the crab  
Carcinus. Proc. R. Soc. B. 161, 216-246.
41. 1964 The giant mitochondria of ctenophore comb plates.  
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42. 1965 Intracellular action potentials associated with the  
beating of the cilia in ctenophore comb plate cells.  
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43. 1965 (with J.W.P. Barnes)  
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jellyfish ganglia. J. exp. Biol. 42, 257-287.
44. 1965 Non-motile sensory cilia and neuromuscular junctions  
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45. 1965 Macrocilia with numerous shafts from the lips of the  
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46. 1965 (with T.H. Bullock)  
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47. 1965 (with J.H. Scholes, S. Shaw and J. Tunstall)

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48. 1965 (with D.J. Rutherford)  
The rhabdom of the lobster eye. *Quart. J. Micr. Sci.* 106, 119-130.
49. 1965 (with P.B.T. Barnard)  
Movement of palisade in locust retinula cells when illuminated. *Quart. J. Micr. Sci.* 106, 131-135.
50. 1965  
The electrophysiological approach to learning in isolatable ganglia. *Animal behaviour*, Suppl. I, 163-182.
51. 1965  
Relations between nerves and cilia in ctenophores. *Amer. Zool.* 5, 357-375.
52. 1965  
A direct response of the crab Carcinus to the movement of the sun. *Nature, Lond.* 207, 1413-1414.
53. 1966  
Some recently discovered underwater vibration receptors in invertebrates, in "Some Contemporary Studies in Marine Science", pp. 395-405. Ed. H. Barnes, Allen & Unwin, Lond.
54. 1966  
Pathways of co-ordination in ctenophores. *Symp. Zool. Soc. Lond.* No.16, pp. 247-266. Academic Press, London and New York.
55. 1966 (with P.R.B. Shephard)  
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56. 1966  
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57. 1966  
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58. 1966  
Optokinetic memory in the locust. *J. exp. Biol.* 44, 255-261.
59. 1966  
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60. 1966 Direct response of the crab Carcinus to the movement of the sun. *J. exp. Biol.* 44, 275-283.
61. 1966 Adaptation and other phenomena in the optokinetic response of the crab Carcinus. *J. exp. Biol.* 44, 285-295.
62. 1966 (with J. Hamori)  
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63. 1966 (with J. Hamori)  
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64. 1966 (with J. Hamori)  
The lobster optic lamina. III. Degeneration of retinula cell endings. *J. Cell Sci.* 1, 271-274.
65. 1966 (with J. Hamori)  
The lobster optic lamina. IV. Glial cells. *J. Cell Sci.* 1, 275-280.
66. 1966 Study of a system as illustrated by the optokinetic response. *Symp. Soc. exp. Biol.* 20, 179-198.
67. 1966 The retina of the locust, in "Symposium on the Compound Eye". Ed. C.G. Bernhard. Pergamon Press, 1966, 513-541.
68. 1966 The optomotor response of the crab Carcinus, pp. 57-74, in "Proc. Symp. Information Processing in Sight Sensory Systems". Cal. Tech. Pasadena, 1965.
69. 1967 (with J. Tunstall)  
Electrophysiological investigation of the optics of the locust retina. *Zeit. vergl. Physiol.* 55, 167-182.
70. 1967 Perception of polarization plane, colour and movement in two dimensions by the crab Carcinus. *Zeit. vergl. Physiol.* 55, 207-224.
71. 1967 (with R.R. Bennett & J. Tunstall)  
Spectral sensitivity of single retinula cells of the locust. *Zeit. vergl. Physiol.* 55, 195-206.

72. 1967 (with S. Boulton)  
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73. 1967  
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74. 1968  
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75. 1968 (with J. Hamori)  
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76. 1969  
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conference sponsored by the Brain Research Institute,  
Los Angeles, 1967. Ed. M.A.B. Brazier, 1-20.
77. 1968  
Primitive examples of gravity receptors and their  
evolution. Symposium held by the Space Research  
Council of the USA on Gravity and the Organism. Ed.  
M.J. Cohen. New York, pp. 203-221.
78. 1968  
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Function of the Nervous System". Ed. G.H. Bourne, 1-  
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79. 1968  
Some recent physiological results of interest to Marine  
Biologists. Special Lecture. Rep. Chall. Soc. 3, 35-37.
80. 1968  
Affinity of neurons in regeneration. Nature, 219, 737-  
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81. 1968 (with M. Burrows)  
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during optokinetic movement. J. exp. Biol. 49, 223-250.
82. 1968 (with M. Burrows)  
Motoneuron discharges to the eyecup muscles of the  
crab Carcinus, J. exp. Biol. 49, 251-267.

83. 1968 (with M. Burrows)  
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84. 1968 (with M. Burrows)  
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85. 1968 (with M. Burrows)  
The onset of the fast phase in the crab's optokinetic response of the crab, Carcinus, J. exp. Biol. 49, 299-313.
86. 1968 (with M. Burrows)  
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87. 1968 "Interneurons". A book on the mechanisms of the central nervous system and their evolution. London and San Francisco. Freeman. pp. 418.
88. 1968 The eye of the firefly Photuris. Proc. R. Soc. Lond. B. 171, 445-463.
89. 1968 Pigment movement and the crystalline threads of the firefly eye. Nature. 218, 778-779.
90. 1968 A note on the number of retinula cells of Notonecta. Z. vergl. Physiol. 61, 259-262.
91. 1969 Statocysts of medusae and evolution of stereocilia. Tiss. & Cell, 1, 341-353.
92. 1969 (with J. Barnes)  
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93. 1969 (with J. Barnes)  
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94. 1969 (with S. Tamm)

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95. 1969 Unit studies of the retina of dragonflies. *Z. vergl. Physiol.* 62, 1-37.
96. 1969 The eye of Dytiscus (Coleoptera). *Tiss. & Cell*, 1, 425-442.
97. 1970 (with B. Walcott & A.C. Ioannides)  
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98. 1970 (with I.A. Meinertzhagen)  
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100. 1970 (with S. Tamm)  
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101. 1971 Biological Systems. Chapter 8 in "Information, Computers, Machines and Man". Ed. R.M. Huey.
102. 1971 The Crab Eye. Chapter 21 in "Information, computers, Machines and Man". Ed. R.M. Huey.
103. 1971 Integration in nervous systems. Chapter 3, V.3 of "Handbook of Perception". Ed. E.C. Carterette and M.P. Friedman. New York. Academic Press.
104. 1971 (with C. Giddings)  
The ommatidium of the termite Mastotermes darwiniensis. *Tiss & Cell*, 3, 463-476.
105. 1971 (with B. Walcott)  
The compound eye of Archichauliodes (Megaloptera). *Proc. R. Soc. B.* 179, 65-72.
106. 1971 (with C. Giddings)

- Movement on dark-light adaptation in beetle eyes of the neuropteran type. Proc. R. Soc. B. 179, 73-85.
107. 1971 (with C. Giddings)  
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108. 1971 Alternatives to superposition images in clear-zone compound eyes. Proc. R. Soc. B. 179, 97-124.
109. 1971 (with P.M. Shelton and I.A. Meinertzhagen)  
Reconstruction of synaptic geometry and neural connections from serial thick sections examined by the medium high voltage electron microscope. Brain Res. 29, 373-377.
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111. 1972 (with B.W. Ninham and M.O. Diesendorf)  
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114. 1972 (with C. Giddings & G. Stange)  
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118. 1973 (with R.G. Butler)  
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121. 1973 Specificity of neurons as a problem in defining subclasses. In: "Developmental Neurobiology of Arthropods". Ed. D. Young. Cambridge Univ. Press.
122. 1974 "The Compound Eye and Vision of Insects". Ed. G.A. Horridge, Oxford Univ. Press.
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124. 1974 (with M. Burrows)  
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130. 1975 (with A. Ioannides)  
The organization of visual fields in the hemipteran acone eye. *Proc. R. Soc. Lond. B.* 190, 373-391.
131. 1975 Contributions to "The Web of Life", a consolidated multi-author biology text for Australian schools.
132. 1975 (with K. Mimura)  
Fly photoreceptors. I. Physical separation of two visual pigments in *Calliphora* retinula cells 1-6. *Proc. R. Soc. Lond. B.* 190, 211-224.
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Visual pigment spectra from sensitivity measurements after chromatic adaptation of single dronefly retinula cells. *J. comp. Physiol.* 114, 233-251.

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138. 1976 (with I. Henderson)  
The ommatidium of the lacewing Chrysopa (Neuroptera). Proc. R. Soc. Lond. B. 192, 259-271.
139. 1977 (with Y. Tsukahara & D. Stavenga)  
Afterpotentials in dronefly retinula cells. J. comp. Physiol. 114, 253-266.
140. 1977 (with Y. Tsukahara)  
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141. 1977 Insects which turn and look. Endeavour, New Series V.11, No.1, 7-17.
142. 1977 The compound eye of insects. Sci. Amer. 237 (July), 108-120.
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153. 1979 (with P. Duelli)  
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155. 1980 (with A.D. Blest)  
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A diurnal rhythm of rhabdom size in locust and mantis compound eyes. In: Tihany Symposium on Invertebrate Neurobiol. (ed. J. Salanki).
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162. 1983 (with L. Marcelja & R. Jahnke)  
Retinula cell responses in a moth superposition eye.  
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163. 1983 (with L. Marcelja, R. Jahnke & P. McIntyre)  
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164. 1983 (with L. Marcelja, R. Jahnke & T. Matic)  
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175. 1988 (with Srinivasan M V, Lehrer M, Zhang S W) "How honeybees measure their distance from objects of unknown size". J. Comp. Physiol. 165, 605-613.
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